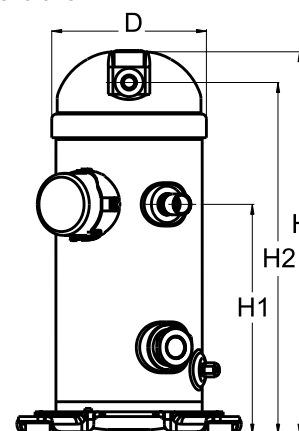


**General Characteristics**

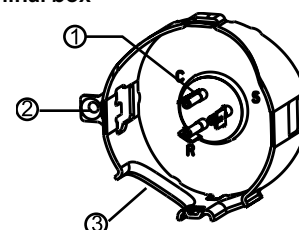
Model number (on compressor nameplate)	MLZ026T1LP9	MLZ026T1LP9
Code number for Singlepack*	121U8064	120U8064
Code number for Industrial pack**	121U8063	120U8063
Drawing number	0XC6300B-1	0XC6300B-1
Suction and discharge connections	Brazed	Brazed
Suction connection	3/4" ODF	3/4" ODF
Discharge connection	1/2" ODF	1/2" ODF
Oil sight glass	Threaded	Threaded
Oil equalisation connection	None	None
Oil drain connection	1/4" flare	1/4" flare
LP gauge port	None	None
IPR valve	32 bar	32 bar
Swept volume	57.11 cm <sup>3</sup> /rev	
Displacement @ Nominal speed	12.0 m <sup>3</sup> /h @ 3500 rpm	
Net weight	31 kg	
Oil charge	1.06 litre, PVE --	
Maximum system test pressure Low Side / High side	- bar(g) / - bar(g)	
Maximum differential test pressure	- bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	3.63 kg	
Approved refrigerants	R404A, R507, R134a, R407C, R22	

**Dimensions**


D=164.5 mm  
H=412 mm  
H1=250 mm  
H2=379 mm  
H3= mm

**Electrical Characteristics**

Nominal voltage	208-230V/1/60Hz
Voltage range	187-253 V
Winding resistance (main / start) at 25°C	0.547 Ω / 1.465 Ω
Run capacitors A + C	60 μF + - μF
Start capacitor B	88-108 μF
Rated Load Amps (RLA)	21 A
Maximum Continuous Current (MCC)	31.5 A
Locked Rotor Amps (LRA)	115 A
Motor protection	Internal overload protector

**Terminal box**


IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Suction Rotolock nut or valve	0 Nm
Discharge Rotolock nut or valve	0 Nm
Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, UL certified (file SA11565), -

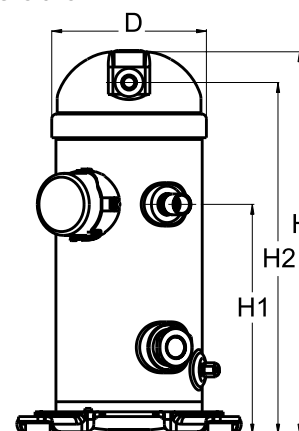
\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**General Characteristics**

Model number (on compressor nameplate)	MLZ026T1LP9A	MLZ026T1LP9A
Code number for Singlepack*	121U8663	121L8663
Code number for Industrial pack**	121U8662	121L8662
Drawing number	0XC6300B-1	0XC6300B-1
Suction and discharge connections	Brazed	Brazed
Suction connection	3/4" ODF	3/4" ODF
Discharge connection	1/2" ODF	1/2" ODF
Oil sight glass	Threaded	Threaded
Oil equalisation connection	None	None
Oil drain connection	1/4" flare	1/4" flare
LP gauge port	None	None
IPR valve	32 bar	32 bar
Swept volume	57.11 cm <sup>3</sup> /rev	
Displacement @ Nominal speed	12.0 m <sup>3</sup> /h @ 3500 rpm	
Net weight	31 kg	
Oil charge	1.06 litre, POE --	
Maximum system test pressure Low Side / High side	- bar(g) / - bar(g)	
Maximum differential test pressure	- bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	3.63 kg	
Approved refrigerants	R404A,R507,R134a,R407A,R407F,R448A,R449A,R452A,R22	

**Dimensions**

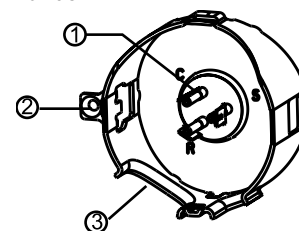


D=164.5 mm  
H=412 mm  
H1=250 mm  
H2=379 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	208-230V/1/60Hz
Voltage range	187-253 V
Winding resistance (main / start) at 25°C	0.547 Ω / 1.465 Ω
Run capacitors A + C	60 μF + - μF
Start capacitor B	88-108 μF
Rated Load Amps (RLA)	21 A
Maximum Continuous Current (MCC)	31.5 A
Locked Rotor Amps (LRA)	115 A
Motor protection	Internal overload protector

**Terminal box**



IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Suction Rotolock nut or valve	0 Nm
Discharge Rotolock nut or valve	0 Nm
Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, UL certified (file SA11565), -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**

**Code no.**

Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
Gasket, 1-1/4"	8156131

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

**Rotolock accessories, sets**

**Code no.**

Solder sleeve adapter set (1-1/4" Rotolock, 3/4" ODF), (1" Rotolock, 1/2" ODF)	120Z0126
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

**Oil / lubricants**

**Code no.**

POE lubricant, 215PZ(PL46HB), 1 litre can	120Z0648
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
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**Miscellaneous accessories**

**Code no.**

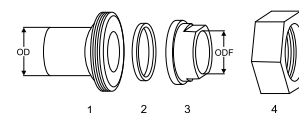
Acoustic hood	120Z5083
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**Spare parts**

**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

**Solder sleeve adapter set**



- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)

**Rotolock accessories, suction side**

**Code no.**

Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
Gasket, 1-1/4"	8156131

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

**Rotolock accessories, sets**

**Code no.**

Solder sleeve adapter set (1-1/4" Rotolock, 3/4" ODF), (1" Rotolock, 1/2" ODF)	120Z0126
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

**Oil / lubricants**

**Code no.**

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
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**Miscellaneous accessories**

**Code no.**

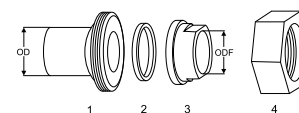
Acoustic hood	120Z5043
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**Spare parts**

**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

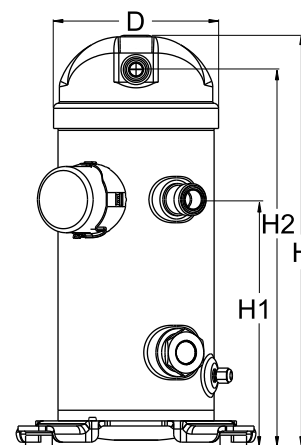
**Solder sleeve adapter set**



- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)

**General Characteristics**

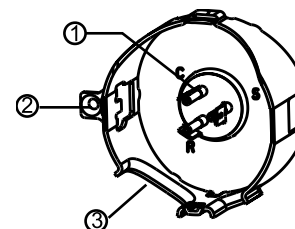
Model number (on compressor nameplate)		<b>MLZ026T1LT9</b>
Code number for Singlepack*		121U8519
Code number for Industrial pack**		121U8518
Drawing number		0XC6290B-1
Suction and discharge connections		Rotolock
Suction connection		2-1/4 " Rotolock
Discharge connection		1-3/4 " Rotolock
Suction connection with supplied sleeve		1-5/8 " -
Discharge connection with supplied sleeve	- "	1-1/8 " -
Oil sight glass		Threaded
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		None
Swept volume		57.11 cm <sup>3</sup> /rev
Displacement @ Nominal speed		12.0 m <sup>3</sup> /h @ 3500 rpm
Net weight		31 kg
Oil charge		1.06 litre, PVE - -
Maximum system test pressure Low Side / High side		- bar(g) / - bar(g)
Maximum differential test pressure		- bar
Maximum number of starts per hour		12
Refrigerant charge limit		3.63 kg
Approved refrigerants		R404A, R507, R134a, R407C, R22

**Dimensions**


D=184 mm  
H=412.1 mm  
H1=249.8 mm  
H2=379.4 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	208-230V/1/60Hz
Voltage range	187-253 V
Winding resistance (main / start) at 25°C	0.547 Ω / 1.465 Ω
Run capacitors A + C	60 μF + - μF
Start capacitor B	88-108 μF
Rated Load Amps (RLA)	21 A
Maximum Continuous Current (MCC)	31.5 A
Locked Rotor Amps (LRA)	115 A
Motor protection	Internal overload protector

**Terminal box**


IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, UL certified (file SA11565), -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**

**Code no.**

Solder sleeve, P03 (2-1/4" Rotolock, 1-5/8" ODF)	8153006
Rotolock valve, V03 (2-1/4" Rotolock, 1-5/8" ODF)	8168026
Gasket, 2-1/4"	8156133

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

**Rotolock accessories, sets**

**Code no.**

Valve set, V03 (2-1/4"~1-5/8"), V02 (1-3/4"~1-1/8")	7703383
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013

**Oil / lubricants**

**Code no.**

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
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**Miscellaneous accessories**

**Code no.**

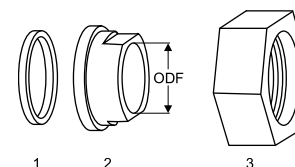
Acoustic hood	120Z5043
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**Spare parts**

**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

**Gaskets, sleeves and nuts**



- 1: Gasket
- 2: Solder sleeve
- 3: Rotolock nut

**Rotolock accessories, suction side**

**Code no.**

Solder sleeve, P03 (2-1/4" Rotolock, 1-5/8" ODF)	8153006
Rotolock valve, V03 (2-1/4" Rotolock, 1-5/8" ODF)	8168026
Gasket, 2-1/4"	8156133

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

**Rotolock accessories, sets**

**Code no.**

Valve set, V03 (2-1/4"~1-5/8"), V02 (1-3/4"~1-1/8")	7703383
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013

**Oil / lubricants**

**Code no.**

POE lubricant, 215PZ(PL46HB), 1 litre can	120Z0648
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
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**Miscellaneous accessories**

**Code no.**

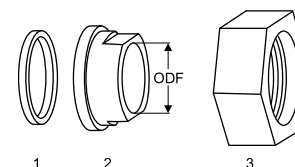
Acoustic hood	120Z5083
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**Spare parts**

**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

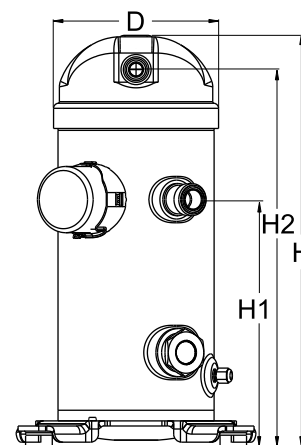
**Gaskets, sleeves and nuts**



- 1: Gasket
- 2: Solder sleeve
- 3: Rotolock nut

**General Characteristics**

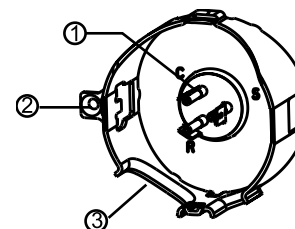
Model number (on compressor nameplate)	MLZ026T1LP9A	MLZ026T1LT9A
Code number for Singlepack*	120U8663	121U8751
Code number for Industrial pack**	120U8662	121U8750
Drawing number	0XC6300B-1	0XC6290B-1
Suction and discharge connections	Brazed	Rotolock
Suction connection	3/4 " ODF	2-1/4 " Rotolock
Discharge connection	1/2 " ODF	1-3/4 " Rotolock
Suction connection with supplied sleeve		1-5/8 " -
Discharge connection with supplied sleeve	- "	1-1/8 " -
Oil sight glass	Threaded	Threaded
Oil equalisation connection	None	None
Oil drain connection	1/4" flare	None
LP gauge port	None	None
IPR valve	32 bar	None
Swept volume	57.11 cm <sup>3</sup> /rev	
Displacement @ Nominal speed	12.0 m <sup>3</sup> /h @ 3500 rpm	
Net weight	31 kg	
Oil charge	1.06 litre, POE - -	
Maximum system test pressure Low Side / High side	- bar(g) / - bar(g)	
Maximum differential test pressure	- bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	3.63 kg	
Approved refrigerants	R404A,R507,R134a,R407A,R407F,R448A,R449A,R452A,R22	

**Dimensions**


D=184 mm  
H=412.1 mm  
H1=249.8 mm  
H2=379.4 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	208-230V/1/60Hz
Voltage range	187-253 V
Winding resistance (main / start) at 25°C	0.547 Ω / 1.465 Ω
Run capacitors A + C	60 μF + - μF
Start capacitor B	88-108 μF
Rated Load Amps (RLA)	21 A
Maximum Continuous Current (MCC)	31.5 A
Locked Rotor Amps (LRA)	115 A
Motor protection	Internal overload protector

**Terminal box**


IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Suction Rotolock nut or valve	0 Nm
Discharge Rotolock nut or valve	0 Nm
Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, UL certified (file SA11565), -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet



**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R22**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	

**Cooling capacity in W**

16	6 680	7 793	9 122	10 725	-	-	-	-	-
20	6 284	7 423	8 758	10 349	12 251	-	-	-	-
30	5 408	6 593	7 930	9 478	11 294	13 433	15 943	-	-
40	4 626	5 837	7 155	8 640	10 350	12 343	14 669	-	-
50	-	5 073	6 352	7 754	9 340	11 167	13 292	-	-
60	-	-	-	6 740	8 182	9 826	11 731	-	-
68	-	-	-	-	-	8 581	10 296	-	-

**Power input in W**

16	1 358	1 455	1 574	1 697	-	-	-	-	-
20	1 592	1 680	1 787	1 897	1 994	-	-	-	-
30	2 094	2 169	2 259	2 349	2 422	2 461	2 450	-	-
40	2 567	2 643	2 732	2 817	2 881	2 908	2 882	-	-
50	-	3 215	3 318	3 413	3 485	3 515	3 489	-	-
60	-	-	-	4 251	4 345	4 394	4 383	-	-
68	-	-	-	-	-	5 369	5 381	-	-

**Current consumption in A**

16	6.56	7.03	7.60	8.20	-	-	-	-	-
20	7.69	8.12	8.63	9.17	9.63	-	-	-	-
30	10.12	10.48	10.91	11.35	11.70	11.89	11.84	-	-
40	12.40	12.77	13.20	13.61	13.92	14.05	13.92	-	-
50	-	15.53	16.03	16.49	16.83	16.98	16.86	-	-
60	-	-	-	20.54	20.99	21.23	21.18	-	-
68	-	-	-	-	-	25.94	26.00	-	-

**Mass flow in kg/h**

16	125	146	171	201	-	-	-	-	-
20	122	144	169	199	234	-	-	-	-
30	115	138	165	196	231	272	319	-	-
40	108	133	161	193	228	269	316	-	-
50	-	126	155	188	224	265	312	-	-
60	-	-	-	178	216	257	304	-	-
68	-	-	-	-	-	246	293	-	-

**Coefficient of performance (C.O.P.)**

16	4.92	5.36	5.80	6.32	-	-	-	-	-
20	3.95	4.42	4.90	5.45	6.14	-	-	-	-
30	2.58	3.04	3.51	4.04	4.66	5.46	6.51	-	-
40	1.80	2.21	2.62	3.07	3.59	4.24	5.09	-	-
50	-	1.58	1.91	2.27	2.68	3.18	3.81	-	-
60	-	-	-	1.59	1.88	2.24	2.68	-	-
68	-	-	-	-	-	1.60	1.91	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 762	W
Power input	3 004	W
Current consumption	14.51	A
Mass flow	159	kg/h
C.O.P.	2.25	

**Pressure switch settings**

Maximum HP switch setting	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R22**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	

**Cooling capacity in W**

16	6 517	7 626	8 956	10 567	-	-	-	-	-
20	6 147	7 280	8 614	10 211	12 132	-	-	-	-
30	5 329	6 507	7 839	9 388	11 213	13 378	15 943	-	-
40	-	5 805	7 116	8 597	10 308	12 312	14 669	-	-
50	-	-	-	7 759	9 337	11 161	13 292	-	-
60	-	-	-	-	8 220	9 845	11 731	-	-
68	-	-	-	-	-	-	10 296	-	-

**Power input in W**

16	1 358	1 455	1 574	1 697	-	-	-	-	-
20	1 592	1 680	1 787	1 897	1 994	-	-	-	-
30	2 094	2 169	2 259	2 349	2 422	2 461	2 450	-	-
40	-	2 643	2 732	2 817	2 881	2 908	2 882	-	-
50	-	-	-	3 413	3 485	3 515	3 489	-	-
60	-	-	-	-	4 345	4 394	4 383	-	-
68	-	-	-	-	-	-	5 381	-	-

**Current consumption in A**

16	6.56	7.03	7.60	8.20	-	-	-	-	-
20	7.69	8.12	8.63	9.17	9.63	-	-	-	-
30	10.12	10.48	10.91	11.35	11.70	11.89	11.84	-	-
40	-	12.77	13.20	13.61	13.92	14.05	13.92	-	-
50	-	-	-	16.49	16.83	16.98	16.86	-	-
60	-	-	-	-	20.99	21.23	21.18	-	-
68	-	-	-	-	-	-	26.00	-	-

**Mass flow in kg/h**

16	110	131	157	188	-	-	-	-	-
20	107	129	155	186	223	-	-	-	-
30	101	124	151	183	220	265	319	-	-
40	-	120	147	180	218	263	316	-	-
50	-	-	-	175	214	259	312	-	-
60	-	-	-	-	206	251	304	-	-
68	-	-	-	-	-	-	293	-	-

**Coefficient of performance (C.O.P.)**

16	4.80	5.24	5.69	6.23	-	-	-	-	-
20	3.86	4.33	4.82	5.38	6.08	-	-	-	-
30	2.54	3.00	3.47	4.00	4.63	5.44	6.51	-	-
40	-	2.20	2.60	3.05	3.58	4.23	5.09	-	-
50	-	-	-	2.27	2.68	3.17	3.81	-	-
60	-	-	-	-	1.89	2.24	2.68	-	-
68	-	-	-	-	-	-	1.91	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 749	W
Power input	3 004	W
Current consumption	14.51	A
Mass flow	145	kg/h
C.O.P.	2.25	

**Pressure switch settings**

Maximum HP switch setting	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

22	4 166	5 265	6 519	7 937	9 530	-	-	-	-
30	3 832	4 895	6 117	7 508	9 078	10 837	-	-	-
40	3 370	4 349	5 495	6 815	8 321	10 022	11 928	-	-
50	-	3 765	4 793	6 002	7 402	9 004	10 817	-	-
60	-	-	4 066	5 124	6 378	7 840	9 519	-	-
70	-	-	-	4 235	5 304	6 585	8 089	-	-
73	-	-	-	3 975	4 980	6 199	7 643	-	-

**Power input in W**

22	1 546	1 583	1 617	1 656	1 705	-	-	-	-
30	1 771	1 809	1 842	1 877	1 919	1 973	-	-	-
40	2 093	2 139	2 177	2 213	2 252	2 301	2 365	-	-
50	-	2 531	2 581	2 625	2 669	2 720	2 782	-	-
60	-	-	3 065	3 125	3 182	3 241	3 308	-	-
70	-	-	-	3 723	3 799	3 875	3 955	-	-
73	-	-	-	3 923	4 007	4 088	4 174	-	-

**Current consumption in A**

22	7.47	7.65	7.81	8.00	8.24	-	-	-	-
30	8.56	8.74	8.90	9.07	9.27	9.53	-	-	-
40	10.11	10.33	10.52	10.69	10.88	11.12	11.43	-	-
50	-	12.23	12.47	12.68	12.90	13.14	13.44	-	-
60	-	-	14.81	15.10	15.37	15.66	15.98	-	-
70	-	-	-	17.99	18.35	18.72	19.10	-	-
73	-	-	-	18.95	19.36	19.75	20.16	-	-

**Mass flow in kg/h**

22	89	111	136	162	190	-	-	-	-
30	88	111	136	164	194	227	-	-	-
40	86	108	134	163	194	230	268	-	-
50	-	105	130	159	192	229	270	-	-
60	-	-	126	154	187	225	267	-	-
70	-	-	-	149	181	219	262	-	-
73	-	-	-	147	179	217	260	-	-

**Coefficient of performance (C.O.P.)**

22	2.69	3.33	4.03	4.79	5.59	-	-	-	-
30	2.16	2.71	3.32	4.00	4.73	5.49	-	-	-
40	1.61	2.03	2.52	3.08	3.69	4.36	5.04	-	-
50	-	1.49	1.86	2.29	2.77	3.31	3.89	-	-
60	-	-	1.33	1.64	2.00	2.42	2.88	-	-
70	-	-	-	1.14	1.40	1.70	2.05	-	-
73	-	-	-	1.01	1.24	1.52	1.83	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	4 059	W
Power input	2 327	W
Current consumption	11.24	A
Mass flow	107	kg/h
C.O.P.	1.74	

**Pressure switch settings**

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

Cooling capacity in W

22	4 232	5 327	6 570	7 972	9 546	-	-	-	-
30	-	4 985	6 195	7 566	9 108	10 837	-	-	-
40	-	-	5 608	6 903	8 370	10 022	11 872	-	-
50	-	-	4 938	6 118	7 470	9 004	10 731	-	-
60	-	-	-	5 267	6 464	7 840	-	-	-
70	-	-	-	-	5 406	6 585	-	-	-
73	-	-	-	-	5 087	6 199	-	-	-

Power input in W

22	1 546	1 583	1 617	1 656	1 705	-	-	-	-
30	-	1 809	1 842	1 877	1 919	1 973	-	-	-
40	-	-	2 177	2 213	2 252	2 301	2 365	-	-
50	-	-	2 581	2 625	2 669	2 720	2 782	-	-
60	-	-	-	3 125	3 182	3 241	-	-	-
70	-	-	-	-	3 799	3 875	-	-	-
73	-	-	-	-	4 007	4 088	-	-	-

Current consumption in A

22	7.47	7.65	7.81	8.00	8.24	-	-	-	-
30	-	8.74	8.90	9.07	9.27	9.53	-	-	-
40	-	-	10.52	10.69	10.88	11.12	11.43	-	-
50	-	-	12.47	12.68	12.90	13.14	13.44	-	-
60	-	-	-	15.10	15.37	15.66	-	-	-
70	-	-	-	-	18.35	18.72	-	-	-
73	-	-	-	-	19.36	19.75	-	-	-

Mass flow in kg/h

22	80	102	127	155	186	-	-	-	-
30	-	102	127	156	189	227	-	-	-
40	-	-	125	155	190	230	276	-	-
50	-	-	122	152	188	229	277	-	-
60	-	-	-	148	183	225	-	-	-
70	-	-	-	-	177	219	-	-	-
73	-	-	-	-	175	217	-	-	-

Coefficient of performance (C.O.P.)

22	2.74	3.37	4.06	4.81	5.60	-	-	-	-
30	-	2.76	3.36	4.03	4.75	5.49	-	-	-
40	-	-	2.58	3.12	3.72	4.36	5.02	-	-
50	-	-	1.91	2.33	2.80	3.31	3.86	-	-
60	-	-	-	1.69	2.03	2.42	-	-	-
70	-	-	-	-	1.42	1.70	-	-	-
73	-	-	-	-	1.27	1.52	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Pressure switch settings

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

Sound power data

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 948	6 162	7 642	9 396	11 430	-	-	-	-
20	4 509	5 591	6 908	8 466	10 274	12 339	14 667	-	-
30	4 044	5 002	6 164	7 536	9 126	10 942	12 991	15 281	17 817
40	-	4 339	5 354	6 548	7 930	9 506	11 285	13 273	15 478
50	-	-	4 421	5 447	6 629	7 974	9 491	11 187	13 070
60	-	-	-	-	5 166	6 289	7 554	8 968	10 539

**Power input in W**

10	1 563	1 595	1 618	1 631	1 636	-	-	-	-
20	1 935	1 980	2 016	2 043	2 061	2 071	2 075	-	-
30	2 410	2 459	2 499	2 531	2 554	2 570	2 579	2 581	2 577
40	-	3 080	3 116	3 145	3 165	3 178	3 184	3 184	3 178
50	-	-	3 917	3 933	3 942	3 944	3 939	3 928	3 911
60	-	-	-	-	4 934	4 916	4 892	4 862	4 826

**Current consumption in A**

10	7.55	7.71	7.81	7.88	7.90	-	-	-	-
20	9.35	9.57	9.74	9.87	9.96	10.01	10.02	-	-
30	11.64	11.88	12.07	12.23	12.34	12.42	12.46	12.47	12.45
40	-	14.88	15.06	15.19	15.29	15.35	15.38	15.38	15.35
50	-	-	18.92	19.00	19.04	19.05	19.03	18.98	18.89
60	-	-	-	-	23.84	23.75	23.63	23.49	23.31

**Mass flow in kg/h**

10	91	121	154	192	236	-	-	-	-
20	95	123	154	190	232	281	338	-	-
30	95	122	153	188	228	276	332	397	473
40	-	119	149	183	223	270	326	390	465
50	-	-	142	176	216	263	318	383	458
60	-	-	-	-	207	254	310	375	450

**Coefficient of performance (C.O.P.)**

10	3.17	3.86	4.72	5.76	6.99	-	-	-	-
20	2.33	2.82	3.43	4.14	4.98	5.96	7.07	-	-
30	1.68	2.03	2.47	2.98	3.57	4.26	5.04	5.92	6.91
40	-	1.41	1.72	2.08	2.51	2.99	3.54	4.17	4.87
50	-	-	1.13	1.38	1.68	2.02	2.41	2.85	3.34
60	-	-	-	-	1.05	1.28	1.54	1.84	2.18

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	7 296	W
Power input	3 530	W
Current consumption	17.05	A
Mass flow	220	kg/h
C.O.P.	2.07	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K

**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 755	5 964	7 447	9 215	11 277	-	-	-	-
20	4 241	5 310	6 623	8 191	10 026	12 136	14 528	-	-
30	3 699	4 637	5 788	7 166	8 782	10 650	12 776	15 166	17 817
40	3 079	3 893	4 890	6 084	7 490	9 122	10 992	13 109	15 478
50	-	-	3 879	4 894	6 096	7 499	9 119	10 972	13 070
60	-	-	-	-	4 546	5 722	7 098	8 696	10 539

**Power input in W**

10	1 563	1 595	1 618	1 631	1 636	-	-	-	-
20	1 935	1 980	2 016	2 043	2 061	2 071	2 075	-	-
30	2 410	2 459	2 499	2 531	2 554	2 570	2 579	2 581	2 577
40	3 035	3 080	3 116	3 145	3 165	3 178	3 184	3 184	3 178
50	-	-	3 917	3 933	3 942	3 944	3 939	3 928	3 911
60	-	-	-	-	4 934	4 916	4 892	4 862	4 826

**Current consumption in A**

10	7.55	7.71	7.81	7.88	7.90	-	-	-	-
20	9.35	9.57	9.74	9.87	9.96	10.01	10.02	-	-
30	11.64	11.88	12.07	12.23	12.34	12.42	12.46	12.47	12.45
40	14.66	14.88	15.06	15.19	15.29	15.35	15.38	15.38	15.35
50	-	-	18.92	19.00	19.04	19.05	19.03	18.98	18.89
60	-	-	-	-	23.84	23.75	23.63	23.49	23.31

**Mass flow in kg/h**

10	109	142	177	216	260	-	-	-	-
20	113	144	177	215	257	304	357	-	-
30	114	143	175	211	252	298	351	409	473
40	111	139	171	206	246	292	344	402	465
50	-	-	163	198	238	284	336	394	458
60	-	-	-	-	228	275	327	386	450

**Coefficient of performance (C.O.P.)**

10	3.04	3.74	4.60	5.65	6.89	-	-	-	-
20	2.19	2.68	3.29	4.01	4.86	5.86	7.00	-	-
30	1.53	1.89	2.32	2.83	3.44	4.14	4.95	5.88	6.91
40	1.01	1.26	1.57	1.93	2.37	2.87	3.45	4.12	4.87
50	-	-	0.99	1.24	1.55	1.90	2.32	2.79	3.34
60	-	-	-	-	0.92	1.16	1.45	1.79	2.18

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 809	W
Power input	3 530	W
Current consumption	17.05	A
Mass flow	243	kg/h
C.O.P.	1.93	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With accoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

30	-	3 588	4 565	5 767	7 215	8 932	10 939	13 260	15 914
35	-	3 347	4 286	5 436	6 821	8 462	10 381	12 601	15 142
40	-	3 109	4 007	5 105	6 425	7 989	9 819	11 936	14 363
45	-	-	3 718	4 763	6 017	7 503	9 242	11 256	13 566
50	-	-	-	4 400	5 587	6 993	8 640	10 548	12 741
55	-	-	-	-	5 125	6 449	8 002	9 803	11 876
60	-	-	-	-	-	5 861	7 318	9 010	10 961
65	-	-	-	-	-	-	6 577	8 158	9 983

**Power input in W**

30	-	1 857	1 918	1 981	2 044	2 110	2 179	2 252	2 329
35	-	2 262	2 288	2 317	2 348	2 384	2 424	2 469	2 521
40	-	2 679	2 674	2 673	2 676	2 685	2 700	2 722	2 751
45	-	-	3 083	3 056	3 035	3 021	3 014	3 017	3 028
50	-	-	-	3 472	3 431	3 398	3 374	3 360	3 357
55	-	-	-	-	3 870	3 822	3 784	3 758	3 744
60	-	-	-	-	-	4 299	4 252	4 217	4 197
65	-	-	-	-	-	-	4 784	4 745	4 722

**Current consumption in A**

30	-	9.93	9.78	9.97	10.37	10.85	11.29	11.54	11.49
35	-	12.53	12.12	12.07	12.27	12.57	12.84	12.97	12.81
40	-	14.33	13.71	13.48	13.52	13.68	13.85	13.90	13.69
45	-	-	14.89	14.52	14.44	14.52	14.64	14.65	14.43
50	-	-	-	15.51	15.37	15.41	15.51	15.54	15.36
55	-	-	-	-	16.62	16.68	16.81	16.90	16.81
60	-	-	-	-	-	18.63	18.85	19.05	19.10
65	-	-	-	-	-	-	21.96	22.31	22.54

**Mass flow in kg/h**

30	-	82	102	126	154	187	225	269	318
35	-	81	101	125	153	186	224	267	317
40	-	79	99	123	151	184	222	266	316
45	-	-	96	120	148	181	220	264	314
50	-	-	-	116	144	178	216	261	312
55	-	-	-	-	139	173	212	257	309
60	-	-	-	-	-	167	206	252	304
65	-	-	-	-	-	-	199	245	298

**Coefficient of performance (C.O.P.)**

30	-	1.93	2.38	2.91	3.53	4.23	5.02	5.89	6.83
35	-	1.48	1.87	2.35	2.90	3.55	4.28	5.10	6.01
40	-	1.16	1.50	1.91	2.40	2.98	3.64	4.39	5.22
45	-	-	1.21	1.56	1.98	2.48	3.07	3.73	4.48
50	-	-	-	1.27	1.63	2.06	2.56	3.14	3.80
55	-	-	-	-	1.32	1.69	2.11	2.61	3.17
60	-	-	-	-	-	1.36	1.72	2.14	2.61
65	-	-	-	-	-	-	1.37	1.72	2.11

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 017	W
Power input	3 035	W
Current consumption	14.44	A
Mass flow	148	kg/h
C.O.P.	1.98	

**Pressure switch settings**

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 60 Hz,

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Power input in W

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = °C, tc = °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = °C , Subcooling = K

Tolerance according EN12900

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Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

**R448A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 889	4 926	6 181	7 687	9 475	-	-	-	-
20	3 538	4 528	5 709	7 112	8 768	10 710	12 969	-	-
30	-	-	5 187	6 469	7 977	9 743	11 797	14 171	16 897
40	-	-	-	5 775	7 117	8 689	10 521	12 645	15 093
50	-	-	-	-	6 204	7 564	9 156	11 013	13 165
60	-	-	-	-	-	-	7 720	9 291	11 130

**Power input in W**

10	1 569	1 595	1 621	1 642	1 652	-	-	-	-
20	1 895	1 924	1 961	1 999	2 034	2 061	2 073	-	-
30	-	-	2 371	2 415	2 464	2 510	2 550	2 577	2 586
40	-	-	-	2 959	3 008	3 063	3 119	3 169	3 208
50	-	-	-	-	3 735	3 787	3 847	3 908	3 966
60	-	-	-	-	-	-	4 802	4 863	4 928

**Current consumption in A**

10	8.44	8.46	8.47	8.48	8.51	-	-	-	-
20	9.23	9.38	9.51	9.62	9.73	9.84	9.97	-	-
30	-	-	11.07	11.27	11.46	11.63	11.80	11.98	12.18
40	-	-	-	13.57	13.82	14.05	14.26	14.46	14.67
50	-	-	-	-	16.94	17.22	17.47	17.68	17.89
60	-	-	-	-	-	-	21.53	21.76	21.96

**Mass flow in kg/h**

10	63	81	102	127	157	-	-	-	-
20	62	80	101	126	156	192	235	-	-
30	-	-	99	124	154	190	232	282	340
40	-	-	-	121	150	186	227	276	334
50	-	-	-	-	146	180	221	269	326
60	-	-	-	-	-	-	213	260	315

**Coefficient of performance (C.O.P.)**

10	2.48	3.09	3.81	4.68	5.73	-	-	-	-
20	1.87	2.35	2.91	3.56	4.31	5.20	6.26	-	-
30	-	-	2.19	2.68	3.24	3.88	4.63	5.50	6.53
40	-	-	-	1.95	2.37	2.84	3.37	3.99	4.70
50	-	-	-	-	1.66	2.00	2.38	2.82	3.32
60	-	-	-	-	-	-	1.61	1.91	2.26

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 666	W
Power input	3 345	W
Current consumption	15.28	A
Mass flow	148	kg/h
C.O.P.	1.99	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With accoustic hood		dB(A)

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R448A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 905	4 950	6 216	7 735	9 536	-	-	-	-
20	3 507	4 499	5 685	7 097	8 766	10 722	12 993	-	-
30	3 095	4 016	5 103	6 391	7 911	9 694	11 769	14 163	16 897
40	-	-	4 488	5 633	6 986	8 578	10 440	12 604	15 093
50	-	-	-	4 840	6 008	7 391	9 023	10 938	13 165
60	-	-	-	-	4 991	6 148	7 533	9 181	11 130

**Power input in W**

10	1 569	1 595	1 621	1 642	1 652	-	-	-	-
20	1 895	1 924	1 961	1 999	2 034	2 061	2 073	-	-
30	2 316	2 336	2 371	2 415	2 464	2 510	2 550	2 577	2 586
40	-	-	2 920	2 959	3 008	3 063	3 119	3 169	3 208
50	-	-	-	3 697	3 735	3 787	3 847	3 908	3 966
60	-	-	-	-	4 714	4 751	4 802	4 863	4 928

**Current consumption in A**

10	8.44	8.46	8.47	8.48	8.51	-	-	-	-
20	9.23	9.38	9.51	9.62	9.73	9.84	9.97	-	-
30	10.55	10.83	11.07	11.27	11.46	11.63	11.80	11.98	12.18
40	-	-	13.27	13.57	13.82	14.05	14.26	14.46	14.67
50	-	-	-	16.62	16.94	17.22	17.47	17.68	17.89
60	-	-	-	-	20.94	21.26	21.53	21.76	21.96

**Mass flow in kg/h**

10	75	94	116	142	173	-	-	-	-
20	73	93	115	141	171	207	247	-	-
30	72	91	113	139	169	204	244	289	340
40	-	-	110	136	165	199	239	284	334
50	-	-	-	132	160	194	232	276	326
60	-	-	-	-	154	187	224	267	315

**Coefficient of performance (C.O.P.)**

10	2.49	3.10	3.83	4.71	5.77	-	-	-	-
20	1.85	2.34	2.90	3.55	4.31	5.20	6.27	-	-
30	1.34	1.72	2.15	2.65	3.21	3.86	4.62	5.50	6.53
40	-	-	1.54	1.90	2.32	2.80	3.35	3.98	4.70
50	-	-	-	1.31	1.61	1.95	2.35	2.80	3.32
60	-	-	-	-	1.06	1.29	1.57	1.89	2.26

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 503	W
Power input	3 345	W
Current consumption	15.28	A
Mass flow	163	kg/h
C.O.P.	1.94	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R449A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 889	4 926	6 181	7 687	9 475	-	-	-	-
20	3 538	4 528	5 709	7 112	8 768	10 710	12 969	-	-
30	-	-	5 187	6 469	7 977	9 743	11 797	14 171	16 897
40	-	-	-	5 775	7 117	8 689	10 521	12 645	15 093
50	-	-	-	-	6 204	7 564	9 156	11 013	13 165
60	-	-	-	-	-	-	7 720	9 291	11 130

**Power input in W**

10	1 569	1 595	1 621	1 642	1 652	-	-	-	-
20	1 895	1 924	1 961	1 999	2 034	2 061	2 073	-	-
30	-	-	2 371	2 415	2 464	2 510	2 550	2 577	2 586
40	-	-	-	2 959	3 008	3 063	3 119	3 169	3 208
50	-	-	-	-	3 735	3 787	3 847	3 908	3 966
60	-	-	-	-	-	-	4 802	4 863	4 928

**Current consumption in A**

10	8.44	8.46	8.47	8.48	8.51	-	-	-	-
20	9.23	9.38	9.51	9.62	9.73	9.84	9.97	-	-
30	-	-	11.07	11.27	11.46	11.63	11.80	11.98	12.18
40	-	-	-	13.57	13.82	14.05	14.26	14.46	14.67
50	-	-	-	-	16.94	17.22	17.47	17.68	17.89
60	-	-	-	-	-	-	21.53	21.76	21.96

**Mass flow in kg/h**

10	64	82	104	129	160	-	-	-	-
20	63	81	103	128	159	196	239	-	-
30	-	-	101	126	157	193	236	287	346
40	-	-	-	124	153	189	232	282	340
50	-	-	-	-	149	184	226	275	332
60	-	-	-	-	-	-	218	266	322

**Coefficient of performance (C.O.P.)**

10	2.48	3.09	3.81	4.68	5.73	-	-	-	-
20	1.87	2.35	2.91	3.56	4.31	5.20	6.26	-	-
30	-	-	2.19	2.68	3.24	3.88	4.63	5.50	6.53
40	-	-	-	1.95	2.37	2.84	3.37	3.99	4.70
50	-	-	-	-	1.66	2.00	2.38	2.82	3.32
60	-	-	-	-	-	-	1.61	1.91	2.26

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 666	W
Power input	3 345	W
Current consumption	15.28	A
Mass flow	151	kg/h
C.O.P.	1.99	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R449A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 897	4 941	6 207	7 725	9 527	-	-	-	-
20	3 498	4 489	5 675	7 087	8 756	10 714	12 986	-	-
30	3 086	4 005	5 092	6 380	7 900	9 684	11 762	14 159	16 897
40	-	-	4 476	5 622	6 974	8 567	10 432	12 599	15 093
50	-	-	-	4 827	5 996	7 380	9 015	10 933	13 165
60	-	-	-	-	4 978	6 137	7 524	9 176	11 130

**Power input in W**

10	1 569	1 595	1 621	1 642	1 652	-	-	-	-
20	1 895	1 924	1 961	1 999	2 034	2 061	2 073	-	-
30	2 316	2 336	2 371	2 415	2 464	2 510	2 550	2 577	2 586
40	-	-	2 920	2 959	3 008	3 063	3 119	3 169	3 208
50	-	-	-	3 697	3 735	3 787	3 847	3 908	3 966
60	-	-	-	-	4 714	4 751	4 802	4 863	4 928

**Current consumption in A**

10	8.44	8.46	8.47	8.48	8.51	-	-	-	-
20	9.23	9.38	9.51	9.62	9.73	9.84	9.97	-	-
30	10.55	10.83	11.07	11.27	11.46	11.63	11.80	11.98	12.18
40	-	-	13.27	13.57	13.82	14.05	14.26	14.46	14.67
50	-	-	-	16.62	16.94	17.22	17.47	17.68	17.89
60	-	-	-	-	20.94	21.26	21.53	21.76	21.96

**Mass flow in kg/h**

10	76	96	118	145	176	-	-	-	-
20	75	94	117	143	174	210	252	-	-
30	73	93	115	141	172	208	248	295	346
40	-	-	113	138	168	203	244	289	340
50	-	-	-	134	164	198	237	282	332
60	-	-	-	-	158	191	229	273	322

**Coefficient of performance (C.O.P.)**

10	2.48	3.10	3.83	4.70	5.77	-	-	-	-
20	1.85	2.33	2.89	3.54	4.30	5.20	6.27	-	-
30	1.33	1.71	2.15	2.64	3.21	3.86	4.61	5.49	6.53
40	-	-	1.53	1.90	2.32	2.80	3.35	3.98	4.70
50	-	-	-	1.31	1.61	1.95	2.34	2.80	3.32
60	-	-	-	-	1.06	1.29	1.57	1.89	2.26

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 491	W
Power input	3 345	W
Current consumption	15.28	A
Mass flow	166	kg/h
C.O.P.	1.94	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

**R452A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 603	5 739	7 115	8 758	10 691	-	-	-	-
20	4 064	5 133	6 410	7 922	9 693	11 750	14 117	-	-
30	-	4 516	5 682	7 050	8 646	10 496	12 625	15 059	17 823
40	-	-	4 918	6 130	7 539	9 170	11 049	13 202	15 653
50	-	-	-	-	6 363	7 762	9 378	11 237	13 364
60	-	-	-	-	-	6 262	7 603	9 157	10 948

**Power input in W**

10	1 636	1 666	1 698	1 732	1 770	-	-	-	-
20	1 963	1 990	2 019	2 052	2 089	2 129	2 173	-	-
30	-	2 428	2 450	2 477	2 507	2 543	2 582	2 627	2 678
40	-	-	3 039	3 054	3 074	3 100	3 131	3 168	3 210
50	-	-	-	-	3 839	3 850	3 867	3 891	3 922
60	-	-	-	-	-	4 841	4 840	4 846	4 860

**Current consumption in A**

10	8.18	8.16	8.19	8.28	8.40	-	-	-	-
20	9.69	9.77	9.89	10.04	10.21	10.38	10.54	-	-
30	-	11.42	11.62	11.83	12.05	12.24	12.42	12.55	12.62
40	-	-	13.81	14.08	14.33	14.55	14.72	14.84	14.88
50	-	-	-	-	17.46	17.70	17.88	17.97	17.98
60	-	-	-	-	-	22.11	22.28	22.36	22.33

**Mass flow in kg/h**

10	93	117	146	180	221	-	-	-	-
20	89	114	143	177	217	265	322	-	-
30	-	110	138	172	213	261	317	384	461
40	-	-	133	167	207	255	311	377	454
50	-	-	-	-	200	248	304	369	446
60	-	-	-	-	-	239	295	360	436

**Coefficient of performance (C.O.P.)**

10	2.81	3.45	4.19	5.06	6.04	-	-	-	-
20	2.07	2.58	3.17	3.86	4.64	5.52	6.50	-	-
30	-	1.86	2.32	2.85	3.45	4.13	4.89	5.73	6.66
40	-	-	1.62	2.01	2.45	2.96	3.53	4.17	4.88
50	-	-	-	-	1.66	2.02	2.43	2.89	3.41
60	-	-	-	-	-	1.29	1.57	1.89	2.25

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 960	W
Power input	3 429	W
Current consumption	15.76	A
Mass flow	204	kg/h
C.O.P.	2.03	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R452A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 454	5 587	6 967	8 622	10 578	-	-	-	-
20	3 857	4 913	6 186	7 705	9 498	11 591	14 008	-	-
30	3 266	4 231	5 384	6 753	8 368	10 258	12 450	14 966	17 823
40	2 673	3 532	4 550	5 756	7 181	8 855	10 807	13 065	15 653
50	-	-	3 676	4 706	5 926	7 369	9 069	11 057	13 364
60	-	-	-	-	4 588	5 787	7 220	8 927	10 948

**Power input in W**

10	1 636	1 666	1 698	1 732	1 770	-	-	-	-
20	1 963	1 990	2 019	2 052	2 089	2 129	2 173	-	-
30	2 409	2 428	2 450	2 477	2 507	2 543	2 582	2 627	2 678
40	3 022	3 028	3 039	3 054	3 074	3 100	3 131	3 168	3 210
50	-	-	3 834	3 834	3 839	3 850	3 867	3 891	3 922
60	-	-	-	-	4 849	4 841	4 840	4 846	4 860

**Current consumption in A**

10	8.18	8.16	8.19	8.28	8.40	-	-	-	-
20	9.69	9.77	9.89	10.04	10.21	10.38	10.54	-	-
30	11.25	11.42	11.62	11.83	12.05	12.24	12.42	12.55	12.62
40	13.26	13.53	13.81	14.08	14.33	14.55	14.72	14.84	14.88
50	-	-	16.85	17.17	17.46	17.70	17.88	17.97	17.98
60	-	-	-	-	21.86	22.11	22.28	22.36	22.33

**Mass flow in kg/h**

10	110	137	167	202	243	-	-	-	-
20	106	133	163	198	239	286	340	-	-
30	101	128	158	193	234	281	334	395	461
40	95	122	152	187	228	275	328	388	454
50	-	-	145	180	220	267	320	380	446
60	-	-	-	-	211	258	311	370	436

**Coefficient of performance (C.O.P.)**

10	2.72	3.35	4.10	4.98	5.98	-	-	-	-
20	1.97	2.47	3.06	3.75	4.55	5.44	6.45	-	-
30	1.36	1.74	2.20	2.73	3.34	4.03	4.82	5.70	6.66
40	0.88	1.17	1.50	1.88	2.34	2.86	3.45	4.12	4.88
50	-	-	0.96	1.23	1.54	1.91	2.34	2.84	3.41
60	-	-	-	-	0.95	1.20	1.49	1.84	2.25

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 563	W
Power input	3 429	W
Current consumption	15.76	A
Mass flow	224	kg/h
C.O.P.	1.91	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

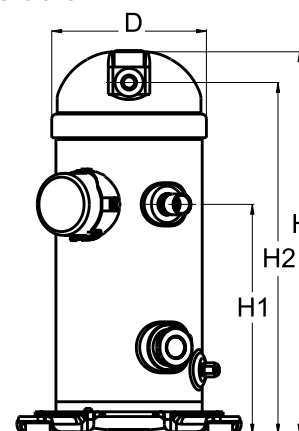
**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

**General Characteristics**

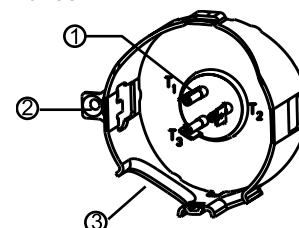
Model number (on compressor nameplate)	MLZ026T2LP9A	MLZ026T2LP9A
Code number for Singlepack*	121U8673	121L8673
Code number for Industrial pack**	121U8672	121L8672
Drawing number	0XC6300B-1	0XC6300B-1
Suction and discharge connections	Brazed	Brazed
Suction connection	3/4" ODF	3/4" ODF
Discharge connection	1/2" ODF	1/2" ODF
Oil sight glass	Threaded	Threaded
Oil equalisation connection	None	None
Oil drain connection	1/4" flare	1/4" flare
LP gauge port	None	None
IPR valve	32 bar	32 bar
Swept volume	57.11 cm <sup>3</sup> /rev	
Displacement @ Nominal speed	9.9 m <sup>3</sup> /h @ 2900 rpm - 12.0 m <sup>3</sup> /h @ 3500 rpm	
Net weight	31 kg	
Oil charge	1.06 litre, POE --	
Maximum system test pressure Low Side / High side	- bar(g) / - bar(g)	
Maximum differential test pressure	- bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	3.63 kg	
Approved refrigerants	R404A,R507,R134a,R407A,R407F,R448A,R449A,R452A,R22	

**Dimensions**


D=164.5 mm  
H=412 mm  
H1=250 mm  
H2=379 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	208-230V/3/60Hz
Voltage range	188-253 V
Winding resistance between phases 1-2 +/- 7% at 25°C	1.182 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	0.87 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	1.182 Ω
Rated Load Amps (RLA)	14.1 A
Maximum Continuous Current (MCC)	22 A
Locked Rotor Amps (LRA)	95 A
Motor protection	Internal overload protector

**Terminal box**


IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Suction Rotolock nut or valve	0 Nm
Discharge Rotolock nut or valve	0 Nm
Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, UL certified (file SA11565), -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**

**Code no.**

Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
Gasket, 1-1/4"	8156131

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

**Rotolock accessories, sets**

**Code no.**

Solder sleeve adapter set (1-1/4" Rotolock, 3/4" ODF), (1" Rotolock, 1/2" ODF)	120Z0126
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

**Oil / lubricants**

**Code no.**

POE lubricant, 215PZ(PL46HB), 1 litre can	120Z0648
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
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**Miscellaneous accessories**

**Code no.**

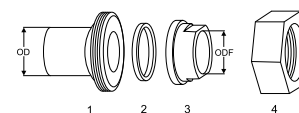
Acoustic hood	120Z5083
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**Spare parts**

**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

**Solder sleeve adapter set**

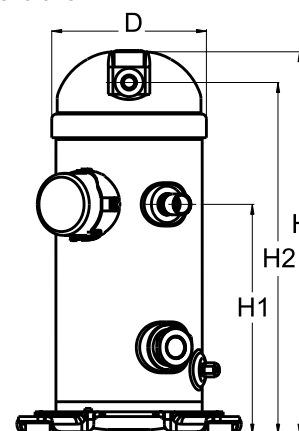


- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)



**General Characteristics**

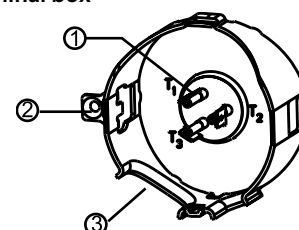
	<b>MLZ026T2LP9</b>	<b>MLZ026T2LP9</b>
Model number (on compressor nameplate)	121U8042	120U8042
Code number for Singlepack*	121U8041	120U8041
Code number for Industrial pack**	121U8041	120U8041
Drawing number	0XC6300B-1	0XC6300B-1
Suction and discharge connections	Brazed	Brazed
Suction connection	3/4" ODF	3/4" ODF
Discharge connection	1/2" ODF	1/2" ODF
Oil sight glass	Threaded	Threaded
Oil equalisation connection	None	None
Oil drain connection	1/4" flare	1/4" flare
LP gauge port	None	None
IPR valve	32 bar	32 bar
Swept volume	57.11 cm <sup>3</sup> /rev	
Displacement @ Nominal speed	9.9 m <sup>3</sup> /h @ 2900 rpm - 12.0 m <sup>3</sup> /h @ 3500 rpm	
Net weight	31 kg	
Oil charge	1.06 litre, PVE --	
Maximum system test pressure Low Side / High side	- bar(g) / - bar(g)	
Maximum differential test pressure	- bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	3.63 kg	
Approved refrigerants	R404A, R507, R134a, R407C, R22	

**Dimensions**


D=164.5 mm  
H=412 mm  
H1=250 mm  
H2=379 mm  
H3= mm

**Electrical Characteristics**

Nominal voltage	208-230V/3/60Hz
Voltage range	188-253 V
Winding resistance between phases 1-2 +/- 7% at 25°C	1.182 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	0.87 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	1.182 Ω
Rated Load Amps (RLA)	14.1 A
Maximum Continuous Current (MCC)	22 A
Locked Rotor Amps (LRA)	95 A
Motor protection	Internal overload protector

**Terminal box**


IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Suction Rotolock nut or valve	0 Nm
Discharge Rotolock nut or valve	0 Nm
Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, UL certified (file SA11565), -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

\*\*Industrial pack: 121U..: 12 unboxed compressors on Danfoss pallet. 120U..: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**

**Code no.**

Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
Gasket, 1-1/4"	8156131

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

**Rotolock accessories, sets**

**Code no.**

Solder sleeve adapter set (1-1/4" Rotolock, 3/4" ODF), (1" Rotolock, 1/2" ODF)	120Z0126
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

**Oil / lubricants**

**Code no.**

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
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**Miscellaneous accessories**

**Code no.**

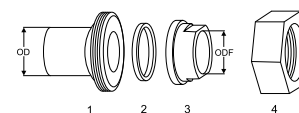
Acoustic hood	120Z5043
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**Spare parts**

**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

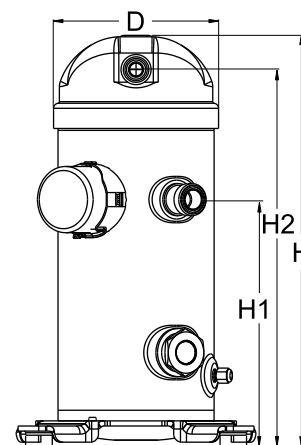
**Solder sleeve adapter set**



- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)

**General Characteristics**

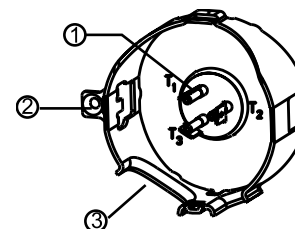
Model number (on compressor nameplate)		<b>MLZ026T2LT9</b>
Code number for Singlepack*		121U8559
Code number for Industrial pack**		121U8558
Drawing number		0XC6290B-1
Suction and discharge connections		Rotolock
Suction connection		2-1/4 " Rotolock
Discharge connection		1-3/4 " Rotolock
Suction connection with supplied sleeve		1-5/8 " -
Discharge connection with supplied sleeve	- "	1-1/8 " -
Oil sight glass		Threaded
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		None
Swept volume		57.11 cm <sup>3</sup> /rev
Displacement @ Nominal speed		9.9 m <sup>3</sup> /h @ 2900 rpm - 12.0 m <sup>3</sup> /h @ 3500 rpm
Net weight		31 kg
Oil charge		1.06 litre, PVE - -
Maximum system test pressure Low Side / High side		- bar(g) / - bar(g)
Maximum differential test pressure		- bar
Maximum number of starts per hour		12
Refrigerant charge limit		3.63 kg
Approved refrigerants		R404A, R507, R134a, R407C, R22

**Dimensions**


D=184 mm  
H=412.1 mm  
H1=249.8 mm  
H2=379.4 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	208-230V/3/60Hz
Voltage range	188-253 V
Winding resistance between phases 1-2 +/- 7% at 25°C	1.182 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	0.87 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	1.182 Ω
Rated Load Amps (RLA)	14.1 A
Maximum Continuous Current (MCC)	22 A
Locked Rotor Amps (LRA)	95 A
Motor protection	Internal overload protector

**Terminal box**


IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, UL certified (file SA11565), -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**

**Code no.**

Solder sleeve, P03 (2-1/4" Rotolock, 1-5/8" ODF)	8153006
Rotolock valve, V03 (2-1/4" Rotolock, 1-5/8" ODF)	8168026
Gasket, 2-1/4"	8156133

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

**Rotolock accessories, sets**

**Code no.**

Valve set, V03 (2-1/4"~1-5/8"), V02 (1-3/4"~1-1/8")	7703383
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013

**Oil / lubricants**

**Code no.**

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
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**Miscellaneous accessories**

**Code no.**

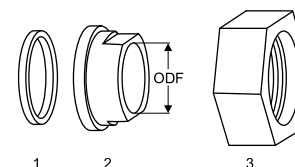
Acoustic hood	120Z5043
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**Spare parts**

**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

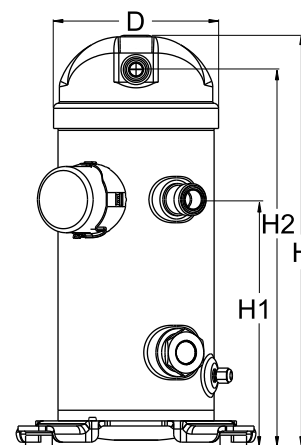
**Gaskets, sleeves and nuts**



- 1: Gasket
- 2: Solder sleeve
- 3: Rotolock nut

**General Characteristics**

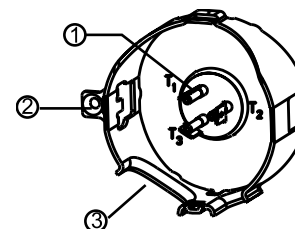
Model number (on compressor nameplate)	MLZ026T2LP9A	MLZ026T2LT9A
Code number for Singlepack*	120U8673	121U8753
Code number for Industrial pack**	120U8672	121U8752
Drawing number	0XC6300B-1	0XC6290B-1
Suction and discharge connections	Brazed	Rotolock
Suction connection	3/4" ODF	2-1/4" Rotolock
Discharge connection	1/2" ODF	1-3/4" Rotolock
Suction connection with supplied sleeve		1-5/8" -
Discharge connection with supplied sleeve	- "	1-1/8" -
Oil sight glass	Threaded	Threaded
Oil equalisation connection	None	None
Oil drain connection	1/4" flare	None
LP gauge port	None	None
IPR valve	32 bar	None
Swept volume	57.11 cm <sup>3</sup> /rev	
Displacement @ Nominal speed	9.9 m <sup>3</sup> /h @ 2900 rpm - 12.0 m <sup>3</sup> /h @ 3500 rpm	
Net weight	31 kg	
Oil charge	1.06 litre, POE - -	
Maximum system test pressure Low Side / High side	- bar(g) / - bar(g)	
Maximum differential test pressure	- bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	3.63 kg	
Approved refrigerants	R404A, R507, R134a, R407A, R407F, R448A, R449A, R452A, R22	

**Dimensions**


D=184 mm  
H=412.1 mm  
H1=249.8 mm  
H2=379.4 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	208-230V/3/60Hz
Voltage range	188-253 V
Winding resistance between phases 1-2 +/- 7% at 25°C	1.182 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	0.87 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	1.182 Ω
Rated Load Amps (RLA)	14.1 A
Maximum Continuous Current (MCC)	22 A
Locked Rotor Amps (LRA)	95 A
Motor protection	Internal overload protector

**Terminal box**


IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Suction Rotolock nut or valve	0 Nm
Discharge Rotolock nut or valve	0 Nm
Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, UL certified (file SA11565), -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**

**Code no.**

Solder sleeve, P03 (2-1/4" Rotolock, 1-5/8" ODF)	8153006
Rotolock valve, V03 (2-1/4" Rotolock, 1-5/8" ODF)	8168026
Gasket, 2-1/4"	8156133

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

**Rotolock accessories, sets**

**Code no.**

Valve set, V03 (2-1/4"~1-5/8"), V02 (1-3/4"~1-1/8")	7703383
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013

**Oil / lubricants**

**Code no.**

POE lubricant, 215PZ(PL46HB), 1 litre can	120Z0648
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
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**Miscellaneous accessories**

**Code no.**

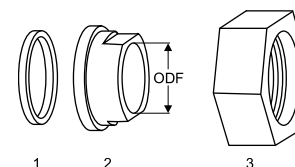
Acoustic hood	120Z5083
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**Spare parts**

**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

**Gaskets, sleeves and nuts**



- 1: Gasket
- 2: Solder sleeve
- 3: Rotolock nut

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R22**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	

**Cooling capacity in W**

16	5 370	6 356	7 533	8 950	-	-	-	-	-
20	5 108	6 108	7 289	8 700	10 385	-	-	-	-
30	4 485	5 493	6 656	8 023	9 640	11 553	13 801	-	-
40	3 919	4 895	6 000	7 283	8 794	10 578	12 678	-	-
50	-	4 326	5 334	6 495	7 860	9 477	11 391	-	-
60	-	-	-	5 672	6 852	8 263	9 952	-	-
68	-	-	-	-	-	7 220	8 701	-	-

**Power input in W**

16	1 225	1 210	1 195	1 184	-	-	-	-	-
20	1 388	1 380	1 367	1 356	1 352	-	-	-	-
30	1 759	1 772	1 770	1 761	1 750	1 743	1 747	-	-
40	2 129	2 171	2 189	2 190	2 179	2 163	2 148	-	-
50	-	2 646	2 691	2 709	2 706	2 688	2 661	-	-
60	-	-	-	3 386	3 398	3 386	3 355	-	-
68	-	-	-	-	-	4 114	4 086	-	-

**Current consumption in A**

16	4.71	4.66	4.60	4.56	-	-	-	-	-
20	5.34	5.31	5.26	5.22	5.20	-	-	-	-
30	6.77	6.82	6.81	6.78	6.74	6.71	6.72	-	-
40	8.20	8.36	8.43	8.43	8.39	8.33	8.27	-	-
50	-	10.19	10.36	10.43	10.41	10.35	10.24	-	-
60	-	-	-	13.03	13.08	13.03	12.92	-	-
68	-	-	-	-	-	15.84	15.73	-	-

**Mass flow in kg/h**

16	127	142	159	180	-	-	-	-	-
20	118	134	153	175	203	-	-	-	-
30	101	121	143	167	197	232	274	-	-
40	91	113	136	163	194	230	272	-	-
50	-	106	130	158	189	226	268	-	-
60	-	-	-	148	179	216	258	-	-
68	-	-	-	-	-	201	242	-	-

**Coefficient of performance (C.O.P.)**

16	4.38	5.25	6.31	7.56	-	-	-	-	-
20	3.68	4.43	5.33	6.42	7.68	-	-	-	-
30	2.55	3.10	3.76	4.55	5.51	6.63	7.90	-	-
40	1.84	2.25	2.74	3.33	4.04	4.89	5.90	-	-
50	-	1.63	1.98	2.40	2.90	3.53	4.28	-	-
60	-	-	-	1.68	2.02	2.44	2.97	-	-
68	-	-	-	-	-	1.75	2.13	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 667	W
Power input	2 425	W
Current consumption	9.34	A
Mass flow	133	kg/h
C.O.P.	2.34	

**Pressure switch settings**

Maximum HP switch setting	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R22**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	

**Cooling capacity in W**

16	5 239	6 220	7 396	8 818	-	-	-	-	-
20	4 997	5 991	7 169	8 583	10 284	-	-	-	-
30	4 420	5 421	6 580	7 946	9 571	11 506	13 801	-	-
40	-	4 867	5 967	7 247	8 758	10 552	12 678	-	-
50	-	-	-	6 499	7 858	9 472	11 391	-	-
60	-	-	-	-	6 884	8 279	9 952	-	-
68	-	-	-	-	-	-	8 701	-	-

**Power input in W**

16	1 225	1 210	1 195	1 184	-	-	-	-	-
20	1 388	1 380	1 367	1 356	1 352	-	-	-	-
30	1 759	1 772	1 770	1 761	1 750	1 743	1 747	-	-
40	-	2 171	2 189	2 190	2 179	2 163	2 148	-	-
50	-	-	-	2 709	2 706	2 688	2 661	-	-
60	-	-	-	-	3 398	3 386	3 355	-	-
68	-	-	-	-	-	-	4 086	-	-

**Current consumption in A**

16	4.71	4.66	4.60	4.56	-	-	-	-	-
20	5.34	5.31	5.26	5.22	5.20	-	-	-	-
30	6.77	6.82	6.81	6.78	6.74	6.71	6.72	-	-
40	-	8.36	8.43	8.43	8.39	8.33	8.27	-	-
50	-	-	-	10.43	10.41	10.35	10.24	-	-
60	-	-	-	-	13.08	13.03	12.92	-	-
68	-	-	-	-	-	-	15.73	-	-

**Mass flow in kg/h**

16	112	127	146	168	-	-	-	-	-
20	104	120	140	164	193	-	-	-	-
30	89	109	130	156	188	226	274	-	-
40	-	101	125	152	185	224	272	-	-
50	-	-	-	147	180	220	268	-	-
60	-	-	-	-	171	210	258	-	-
68	-	-	-	-	-	-	242	-	-

**Coefficient of performance (C.O.P.)**

16	4.28	5.14	6.19	7.45	-	-	-	-	-
20	3.60	4.34	5.24	6.33	7.61	-	-	-	-
30	2.51	3.06	3.72	4.51	5.47	6.60	7.90	-	-
40	-	2.24	2.73	3.31	4.02	4.88	5.90	-	-
50	-	-	-	2.40	2.90	3.52	4.28	-	-
60	-	-	-	-	2.03	2.45	2.97	-	-
68	-	-	-	-	-	-	2.13	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 656	W
Power input	2 425	W
Current consumption	9.34	A
Mass flow	122	kg/h
C.O.P.	2.33	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

Tolerance according EN12900



**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R22**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	

**Cooling capacity in W**

16	5 849	7 303	9 037	11 066	-	-	-	-	-
20	5 586	6 974	8 623	10 549	12 761	-	-	-	-
30	5 145	6 414	7 898	9 611	11 569	13 781	16 254	-	-
40	4 727	5 946	7 331	8 901	10 670	12 652	14 855	-	-
50	-	5 219	6 574	8 067	9 716	11 535	13 537	-	-
60	-	-	-	6 766	8 360	10 084	11 953	-	-
68	-	-	-	-	-	8 452	10 259	-	-

**Power input in W**

16	1 339	1 364	1 409	1 470	-	-	-	-	-
20	1 544	1 571	1 614	1 667	1 726	-	-	-	-
30	2 022	2 066	2 113	2 159	2 199	2 229	2 243	-	-
40	2 493	2 569	2 638	2 693	2 731	2 746	2 735	-	-
50	-	3 135	3 241	3 322	3 374	3 392	3 371	-	-
60	-	-	-	4 100	4 183	4 219	4 205	-	-
68	-	-	-	-	-	5 048	5 051	-	-

**Current consumption in A**

16	4.20	4.28	4.42	4.61	-	-	-	-	-
20	4.85	4.93	5.06	5.23	5.42	-	-	-	-
30	6.35	6.48	6.63	6.77	6.90	6.99	7.04	-	-
40	7.82	8.06	8.28	8.45	8.57	8.62	8.58	-	-
50	-	9.84	10.17	10.42	10.59	10.64	10.58	-	-
60	-	-	-	12.87	13.12	13.24	13.19	-	-
68	-	-	-	-	-	15.84	15.85	-	-

**Mass flow in kg/h**

16	124	149	178	211	-	-	-	-	-
20	120	144	173	206	244	-	-	-	-
30	113	138	167	200	237	279	325	-	-
40	108	134	164	197	234	275	320	-	-
50	-	127	158	192	230	271	316	-	-
60	-	-	-	180	220	262	308	-	-
68	-	-	-	-	-	247	294	-	-

**Coefficient of performance (C.O.P.)**

16	4.37	5.35	6.41	7.53	-	-	-	-	-
20	3.62	4.44	5.34	6.33	7.39	-	-	-	-
30	2.54	3.10	3.74	4.45	5.26	6.18	7.25	-	-
40	1.90	2.31	2.78	3.31	3.91	4.61	5.43	-	-
50	-	1.67	2.03	2.43	2.88	3.40	4.02	-	-
60	-	-	-	1.65	2.00	2.39	2.84	-	-
68	-	-	-	-	-	1.67	2.03	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 998	W
Power input	2 926	W
Current consumption	9.18	A
Mass flow	161	kg/h
C.O.P.	2.39	

**Pressure switch settings**

Maximum HP switch setting	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R22**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	

**Cooling capacity in W**

16	5 706	7 146	8 873	10 903	-	-	-	-	-
20	5 464	6 840	8 481	10 408	12 637	-	-	-	-
30	5 071	6 331	7 807	9 520	11 486	13 725	16 254	-	-
40	-	5 912	7 291	8 857	10 627	12 620	14 855	-	-
50	-	-	-	8 072	9 713	11 529	13 537	-	-
60	-	-	-	-	8 399	10 104	11 953	-	-
68	-	-	-	-	-	-	10 259	-	-

**Power input in W**

16	1 339	1 364	1 409	1 470	-	-	-	-	-
20	1 544	1 571	1 614	1 667	1 726	-	-	-	-
30	2 022	2 066	2 113	2 159	2 199	2 229	2 243	-	-
40	-	2 569	2 638	2 693	2 731	2 746	2 735	-	-
50	-	-	-	3 322	3 374	3 392	3 371	-	-
60	-	-	-	-	4 183	4 219	4 205	-	-
68	-	-	-	-	-	-	5 051	-	-

**Current consumption in A**

16	4.20	4.28	4.42	4.61	-	-	-	-	-
20	4.85	4.93	5.06	5.23	5.42	-	-	-	-
30	6.35	6.48	6.63	6.77	6.90	6.99	7.04	-	-
40	-	8.06	8.28	8.45	8.57	8.62	8.58	-	-
50	-	-	-	10.42	10.59	10.64	10.58	-	-
60	-	-	-	-	13.12	13.24	13.19	-	-
68	-	-	-	-	-	-	15.85	-	-

**Mass flow in kg/h**

16	109	134	163	197	-	-	-	-	-
20	105	130	158	193	233	-	-	-	-
30	100	124	153	186	226	272	325	-	-
40	-	120	150	184	223	268	320	-	-
50	-	-	-	179	219	265	316	-	-
60	-	-	-	-	209	256	308	-	-
68	-	-	-	-	-	-	294	-	-

**Coefficient of performance (C.O.P.)**

16	4.26	5.24	6.30	7.42	-	-	-	-	-
20	3.54	4.35	5.26	6.24	7.32	-	-	-	-
30	2.51	3.06	3.69	4.41	5.22	6.16	7.25	-	-
40	-	2.30	2.76	3.29	3.89	4.60	5.43	-	-
50	-	-	-	2.43	2.88	3.40	4.02	-	-
60	-	-	-	-	2.01	2.39	2.84	-	-
68	-	-	-	-	-	-	2.03	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 984	W
Power input	2 926	W
Current consumption	9.18	A
Mass flow	148	kg/h
C.O.P.	2.39	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

22	3 420	4 316	5 377	6 623	8 071	-	-	-	-
30	3 136	3 983	4 988	6 167	7 538	9 120	-	-	-
40	2 776	3 552	4 473	5 558	6 824	8 290	9 971	-	-
50	-	3 107	3 934	4 913	6 062	7 398	8 940	-	-
60	-	-	3 374	4 236	5 255	6 451	7 841	-	-
70	-	-	-	3 531	4 409	5 453	6 679	-	-
73	-	-	-	3 315	4 149	5 144	6 318	-	-

**Power input in W**

22	987	999	1 012	1 027	1 045	-	-	-	-
30	1 174	1 189	1 203	1 217	1 232	1 250	-	-	-
40	1 443	1 465	1 484	1 501	1 518	1 535	1 553	-	-
50	-	1 791	1 821	1 846	1 868	1 889	1 909	-	-
60	-	-	2 220	2 258	2 291	2 320	2 346	-	-
70	-	-	-	2 746	2 794	2 836	2 873	-	-
73	-	-	-	2 908	2 962	3 009	3 050	-	-

**Current consumption in A**

22	3.80	3.84	3.89	3.95	4.02	-	-	-	-
30	4.52	4.58	4.63	4.68	4.74	4.81	-	-	-
40	5.55	5.64	5.71	5.78	5.84	5.91	5.98	-	-
50	-	6.89	7.01	7.11	7.19	7.27	7.35	-	-
60	-	-	8.55	8.69	8.82	8.93	9.03	-	-
70	-	-	-	10.57	10.75	10.92	11.06	-	-
73	-	-	-	11.19	11.40	11.58	11.74	-	-

**Mass flow in kg/h**

22	73	91	111	135	162	-	-	-	-
30	73	91	111	135	161	192	-	-	-
40	71	89	110	133	160	191	225	-	-
50	-	87	108	131	158	188	223	-	-
60	-	-	105	128	155	185	219	-	-
70	-	-	-	124	151	182	215	-	-
73	-	-	-	123	150	180	214	-	-

**Coefficient of performance (C.O.P.)**

22	3.47	4.32	5.31	6.45	7.72	-	-	-	-
30	2.67	3.35	4.15	5.07	6.12	7.29	-	-	-
40	1.92	2.42	3.01	3.70	4.50	5.40	6.42	-	-
50	-	1.73	2.16	2.66	3.24	3.92	4.68	-	-
60	-	-	1.52	1.88	2.29	2.78	3.34	-	-
70	-	-	-	1.29	1.58	1.92	2.32	-	-
73	-	-	-	1.14	1.40	1.71	2.07	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	3 331	W
Power input	1 621	W
Current consumption	6.24	A
Mass flow	88	kg/h
C.O.P.	2.05	

**Pressure switch settings**

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

22	3 474	4 366	5 419	6 652	8 084	-	-	-	-
30	-	4 057	5 052	6 214	7 564	9 120	-	-	-
40	-	-	4 566	5 630	6 865	8 290	9 925	-	-
50	-	-	4 054	5 008	6 118	7 398	8 869	-	-
60	-	-	-	4 354	5 326	6 451	-	-	-
70	-	-	-	-	4 495	5 453	-	-	-
73	-	-	-	-	4 238	5 144	-	-	-

**Power input in W**

22	987	999	1 012	1 027	1 045	-	-	-	-
30	-	1 189	1 203	1 217	1 232	1 250	-	-	-
40	-	-	1 484	1 501	1 518	1 535	1 553	-	-
50	-	-	1 821	1 846	1 868	1 889	1 909	-	-
60	-	-	-	2 258	2 291	2 320	-	-	-
70	-	-	-	-	2 794	2 836	-	-	-
73	-	-	-	-	2 962	3 009	-	-	-

**Current consumption in A**

22	3.80	3.84	3.89	3.95	4.02	-	-	-	-
30	-	4.58	4.63	4.68	4.74	4.81	-	-	-
40	-	-	5.71	5.78	5.84	5.91	5.98	-	-
50	-	-	7.01	7.11	7.19	7.27	7.35	-	-
60	-	-	-	8.69	8.82	8.93	-	-	-
70	-	-	-	-	10.75	10.92	-	-	-
73	-	-	-	-	11.40	11.58	-	-	-

**Mass flow in kg/h**

22	66	84	104	129	158	-	-	-	-
30	-	83	104	129	158	192	-	-	-
40	-	-	103	127	156	191	231	-	-
50	-	-	101	125	154	188	228	-	-
60	-	-	-	123	152	185	-	-	-
70	-	-	-	-	148	182	-	-	-
73	-	-	-	-	147	180	-	-	-

**Coefficient of performance (C.O.P.)**

22	3.52	4.37	5.36	6.48	7.74	-	-	-	-
30	-	3.41	4.20	5.11	6.14	7.29	-	-	-
40	-	-	3.08	3.75	4.52	5.40	6.39	-	-
50	-	-	2.23	2.71	3.27	3.92	4.65	-	-
60	-	-	-	1.93	2.32	2.78	-	-	-
70	-	-	-	-	1.61	1.92	-	-	-
73	-	-	-	-	1.43	1.71	-	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

22	4 232	5 328	6 640	8 170	9 917	-	-	-	-
30	3 861	4 915	6 175	7 642	9 317	11 200	-	-	-
40	3 388	4 379	5 563	6 942	8 515	10 283	12 248	-	-
50	-	3 806	4 903	6 181	7 641	9 283	11 108	-	-
60	-	-	4 177	5 343	6 678	8 182	9 857	-	-
70	-	-	-	4 411	5 610	6 965	8 477	-	-
73	-	-	-	4 111	5 266	6 574	8 035	-	-

**Power input in W**

22	1 213	1 220	1 238	1 270	1 317	-	-	-	-
30	1 414	1 435	1 459	1 488	1 524	1 568	-	-	-
40	1 694	1 743	1 784	1 820	1 852	1 882	1 913	-	-
50	-	2 093	2 164	2 218	2 258	2 286	2 304	-	-
60	-	-	2 599	2 683	2 743	2 780	2 797	-	-
70	-	-	-	3 215	3 307	3 365	3 392	-	-
73	-	-	-	3 388	3 491	3 558	3 590	-	-

**Current consumption in A**

22	3.80	3.83	3.89	3.99	4.13	-	-	-	-
30	4.44	4.50	4.58	4.67	4.78	4.92	-	-	-
40	5.31	5.47	5.60	5.71	5.81	5.91	6.00	-	-
50	-	6.57	6.79	6.96	7.09	7.17	7.23	-	-
60	-	-	8.15	8.42	8.61	8.72	8.78	-	-
70	-	-	-	10.09	10.38	10.56	10.64	-	-
73	-	-	-	10.63	10.95	11.16	11.26	-	-

**Mass flow in kg/h**

22	91	110	136	168	203	-	-	-	-
30	92	111	137	168	203	240	-	-	-
40	91	110	136	168	203	239	275	-	-
50	-	106	133	165	200	237	273	-	-
60	-	-	128	161	197	234	271	-	-
70	-	-	-	155	193	231	269	-	-
73	-	-	-	154	191	230	268	-	-

**Coefficient of performance (C.O.P.)**

22	3.49	4.37	5.36	6.43	7.53	-	-	-	-
30	2.73	3.43	4.23	5.14	6.11	7.14	-	-	-
40	2.00	2.51	3.12	3.81	4.60	5.46	6.40	-	-
50	-	1.82	2.27	2.79	3.38	4.06	4.82	-	-
60	-	-	1.61	1.99	2.43	2.94	3.52	-	-
70	-	-	-	1.37	1.70	2.07	2.50	-	-
73	-	-	-	1.21	1.51	1.85	2.24	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	4 098	W
Power input	1 913	W
Current consumption	6.00	A
Mass flow	108	kg/h
C.O.P.	2.14	

**Pressure switch settings**

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

22	4 300	5 390	6 691	8 205	9 934	-	-	-	-
30	-	5 006	6 254	7 701	9 348	11 200	-	-	-
40	-	-	5 678	7 031	8 565	10 283	12 191	-	-
50	-	-	5 052	6 301	7 711	9 283	11 020	-	-
60	-	-	-	5 492	6 768	8 182	-	-	-
70	-	-	-	-	5 718	6 965	-	-	-
73	-	-	-	-	5 380	6 574	-	-	-

**Power input in W**

22	1 213	1 220	1 238	1 270	1 317	-	-	-	-
30	-	1 435	1 459	1 488	1 524	1 568	-	-	-
40	-	-	1 784	1 820	1 852	1 882	1 913	-	-
50	-	-	2 164	2 218	2 258	2 286	2 304	-	-
60	-	-	-	2 683	2 743	2 780	-	-	-
70	-	-	-	-	3 307	3 365	-	-	-
73	-	-	-	-	3 491	3 558	-	-	-

**Current consumption in A**

22	3.80	3.83	3.89	3.99	4.13	-	-	-	-
30	-	4.50	4.58	4.67	4.78	4.92	-	-	-
40	-	-	5.60	5.71	5.81	5.91	6.00	-	-
50	-	-	6.79	6.96	7.09	7.17	7.23	-	-
60	-	-	-	8.42	8.61	8.72	-	-	-
70	-	-	-	-	10.38	10.56	-	-	-
73	-	-	-	-	10.95	11.16	-	-	-

**Mass flow in kg/h**

22	82	101	127	160	198	-	-	-	-
30	-	102	128	161	199	240	-	-	-
40	-	-	127	160	198	239	282	-	-
50	-	-	125	158	196	237	281	-	-
60	-	-	-	154	193	234	-	-	-
70	-	-	-	-	188	231	-	-	-
73	-	-	-	-	187	230	-	-	-

**Coefficient of performance (C.O.P.)**

22	3.55	4.42	5.40	6.46	7.54	-	-	-	-
30	-	3.49	4.29	5.18	6.14	7.14	-	-	-
40	-	-	3.18	3.86	4.63	5.46	6.37	-	-
50	-	-	2.33	2.84	3.41	4.06	4.78	-	-
60	-	-	-	2.05	2.47	2.94	-	-	-
70	-	-	-	-	1.73	2.07	-	-	-
73	-	-	-	-	1.54	1.85	-	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 980	4 944	6 100	7 469	9 074	-	-	-	-
20	3 642	4 534	5 589	6 829	8 274	9 948	11 871	-	-
30	3 244	4 059	5 008	6 112	7 394	8 874	10 576	12 520	14 728
40	-	3 507	4 344	5 308	6 421	7 703	9 178	10 868	12 792
50	-	-	3 587	4 406	5 344	6 423	7 667	9 096	10 733
60	-	-	-	-	4 151	5 023	6 030	7 195	8 540

**Power input in W**

10	1 160	1 247	1 290	1 299	1 284	-	-	-	-
20	1 494	1 582	1 627	1 641	1 634	1 617	1 599	-	-
30	1 895	1 977	2 020	2 034	2 029	2 016	2 005	2 007	2 031
40	-	2 489	2 523	2 531	2 523	2 510	2 500	2 506	2 536
50	-	-	3 192	3 189	3 172	3 152	3 138	3 142	3 174
60	-	-	-	-	4 030	3 998	3 975	3 972	3 999

**Current consumption in A**

10	4.78	5.14	5.32	5.36	5.30	-	-	-	-
20	6.16	6.52	6.71	6.77	6.74	6.67	6.59	-	-
30	7.82	8.15	8.33	8.39	8.37	8.32	8.27	8.28	8.37
40	-	10.26	10.41	10.44	10.41	10.35	10.31	10.33	10.46
50	-	-	13.16	13.15	13.08	13.00	12.94	12.96	13.09
60	-	-	-	-	16.62	16.49	16.39	16.38	16.49

**Mass flow in kg/h**

10	74	98	124	154	188	-	-	-	-
20	76	99	125	154	188	227	274	-	-
30	76	99	124	152	185	224	271	325	389
40	-	96	120	148	180	219	265	319	383
50	-	-	115	142	174	212	257	311	375
60	-	-	-	-	165	202	247	301	365

**Coefficient of performance (C.O.P.)**

10	3.43	3.96	4.73	5.75	7.07	-	-	-	-
20	2.44	2.87	3.44	4.16	5.06	6.15	7.43	-	-
30	1.71	2.05	2.48	3.01	3.64	4.40	5.27	6.24	7.25
40	-	1.41	1.72	2.10	2.54	3.07	3.67	4.34	5.04
50	-	-	1.12	1.38	1.68	2.04	2.44	2.89	3.38
60	-	-	-	-	1.03	1.26	1.52	1.81	2.14

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 896	W
Power input	2 825	W
Current consumption	11.65	A
Mass flow	177	kg/h
C.O.P.	2.09	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K

**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 824	4 785	5 944	7 325	8 953	-	-	-	-
20	3 425	4 306	5 359	6 607	8 075	9 785	11 759	-	-
30	2 967	3 763	4 703	5 812	7 115	8 637	10 401	12 426	14 728
40	2 444	3 147	3 968	4 932	6 065	7 392	8 940	10 733	12 792
50	-	-	3 147	3 959	4 914	6 041	7 367	8 921	10 733
60	-	-	-	-	3 653	4 570	5 666	6 977	8 540

**Power input in W**

10	1 160	1 247	1 290	1 299	1 284	-	-	-	-
20	1 494	1 582	1 627	1 641	1 634	1 617	1 599	-	-
30	1 895	1 977	2 020	2 034	2 029	2 016	2 005	2 007	2 031
40	2 418	2 489	2 523	2 531	2 523	2 510	2 500	2 506	2 536
50	-	-	3 192	3 189	3 172	3 152	3 138	3 142	3 174
60	-	-	-	-	4 030	3 998	3 975	3 972	3 999

**Current consumption in A**

10	4.78	5.14	5.32	5.36	5.30	-	-	-	-
20	6.16	6.52	6.71	6.77	6.74	6.67	6.59	-	-
30	7.82	8.15	8.33	8.39	8.37	8.32	8.27	8.28	8.37
40	9.97	10.26	10.41	10.44	10.41	10.35	10.31	10.33	10.46
50	-	-	13.16	13.15	13.08	13.00	12.94	12.96	13.09
60	-	-	-	-	16.62	16.49	16.39	16.38	16.49

**Mass flow in kg/h**

10	88	114	142	173	207	-	-	-	-
20	91	116	143	173	207	246	289	-	-
30	91	116	142	171	204	242	286	335	389
40	89	112	138	167	199	237	280	329	383
50	-	-	132	159	192	229	272	320	375
60	-	-	-	-	182	219	261	310	365

**Coefficient of performance (C.O.P.)**

10	3.30	3.84	4.61	5.64	6.97	-	-	-	-
20	2.29	2.72	3.29	4.03	4.94	6.05	7.36	-	-
30	1.57	1.90	2.33	2.86	3.51	4.28	5.19	6.19	7.25
40	1.01	1.26	1.57	1.95	2.40	2.95	3.58	4.28	5.04
50	-	-	0.99	1.24	1.55	1.92	2.35	2.84	3.38
60	-	-	-	-	0.91	1.14	1.43	1.76	2.14

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 503	W
Power input	2 825	W
Current consumption	11.65	A
Mass flow	196	kg/h
C.O.P.	1.95	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900



Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 972	6 174	7 624	9 334	11 318	-	-	-	-
20	4 515	5 599	6 903	8 437	10 216	12 251	14 555	-	-
30	4 023	4 990	6 146	7 503	9 076	10 877	12 917	15 210	17 767
40	-	4 318	5 325	6 506	7 872	9 437	11 213	13 213	15 449
50	-	-	4 415	5 417	6 576	7 905	9 416	11 123	13 038
60	-	-	-	-	5 161	6 253	7 499	8 913	10 507

**Power input in W**

10	1 443	1 531	1 572	1 581	1 572	-	-	-	-
20	1 738	1 866	1 939	1 972	1 979	1 974	1 971	-	-
30	2 132	2 296	2 399	2 453	2 473	2 474	2 470	2 474	2 501
40	-	2 851	2 980	3 052	3 084	3 088	3 078	3 070	3 076
50	-	-	3 708	3 797	3 836	3 840	3 824	3 800	3 783
60	-	-	-	-	4 759	4 760	4 733	4 691	4 649

**Current consumption in A**

10	4.53	4.80	4.93	4.96	4.93	-	-	-	-
20	5.45	5.85	6.08	6.19	6.21	6.19	6.19	-	-
30	6.69	7.21	7.53	7.70	7.76	7.76	7.75	7.76	7.85
40	-	8.95	9.35	9.58	9.68	9.69	9.66	9.63	9.65
50	-	-	11.64	11.91	12.04	12.05	12.00	11.92	11.87
60	-	-	-	-	14.93	14.94	14.85	14.72	14.59

**Mass flow in kg/h**

10	90	119	152	190	233	-	-	-	-
20	94	122	153	189	230	279	335	-	-
30	96	121	151	186	226	274	329	394	467
40	-	118	147	181	221	268	323	387	461
50	-	-	140	174	213	260	316	380	455
60	-	-	-	-	204	251	307	372	448

**Coefficient of performance (C.O.P.)**

10	3.45	4.03	4.85	5.90	7.20	-	-	-	-
20	2.60	3.00	3.56	4.28	5.16	6.21	7.38	-	-
30	1.89	2.17	2.56	3.06	3.67	4.40	5.23	6.15	7.11
40	-	1.51	1.79	2.13	2.55	3.06	3.64	4.30	5.02
50	-	-	1.19	1.43	1.71	2.06	2.46	2.93	3.45
60	-	-	-	-	1.08	1.31	1.58	1.90	2.26

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	7 237	W
Power input	3 440	W
Current consumption	10.80	A
Mass flow	217	kg/h
C.O.P.	2.10	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 778	5 975	7 429	9 155	11 167	-	-	-	-
20	4 246	5 318	6 618	8 163	9 969	12 050	14 417	-	-
30	3 679	4 625	5 771	7 135	8 735	10 586	12 703	15 096	17 767
40	3 057	3 874	4 864	6 045	7 436	9 056	10 922	13 050	15 449
50	-	-	3 873	4 868	6 048	7 434	9 047	10 909	13 038
60	-	-	-	-	4 542	5 689	7 047	8 643	10 507

**Power input in W**

10	1 443	1 531	1 572	1 581	1 572	-	-	-	-
20	1 738	1 866	1 939	1 972	1 979	1 974	1 971	-	-
30	2 132	2 296	2 399	2 453	2 473	2 474	2 470	2 474	2 501
40	2 653	2 851	2 980	3 052	3 084	3 088	3 078	3 070	3 076
50	-	-	3 708	3 797	3 836	3 840	3 824	3 800	3 783
60	-	-	-	-	4 759	4 760	4 733	4 691	4 649

**Current consumption in A**

10	4.53	4.80	4.93	4.96	4.93	-	-	-	-
20	5.45	5.85	6.08	6.19	6.21	6.19	6.19	-	-
30	6.69	7.21	7.53	7.70	7.76	7.76	7.75	7.76	7.85
40	8.32	8.95	9.35	9.58	9.68	9.69	9.66	9.63	9.65
50	-	-	11.64	11.91	12.04	12.05	12.00	11.92	11.87
60	-	-	-	-	14.93	14.94	14.85	14.72	14.59

**Mass flow in kg/h**

10	107	140	175	214	257	-	-	-	-
20	112	142	175	213	254	301	354	-	-
30	114	142	173	209	250	296	348	405	467
40	112	138	169	204	244	290	341	399	461
50	-	-	161	196	236	282	333	391	455
60	-	-	-	-	225	272	324	383	448

**Coefficient of performance (C.O.P.)**

10	3.31	3.90	4.72	5.79	7.10	-	-	-	-
20	2.44	2.85	3.41	4.14	5.04	6.11	7.31	-	-
30	1.73	2.01	2.41	2.91	3.53	4.28	5.14	6.10	7.11
40	1.15	1.36	1.63	1.98	2.41	2.93	3.55	4.25	5.02
50	-	-	1.04	1.28	1.58	1.94	2.37	2.87	3.45
60	-	-	-	-	0.95	1.20	1.49	1.84	2.26

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 755	W
Power input	3 440	W
Current consumption	10.80	A
Mass flow	240	kg/h
C.O.P.	1.96	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With accoustic hood	63	dB(A)

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

30	-	2 969	3 814	4 838	6 063	7 510	9 200	11 156	13 398
35	-	2 778	3 581	4 551	5 711	7 081	8 683	10 538	12 669
40	-	2 571	3 332	4 250	5 345	6 639	8 153	9 909	11 929
45	-	-	3 065	3 931	4 962	6 181	7 609	9 266	11 175
50	-	-	-	3 592	4 561	5 705	7 046	8 606	10 405
55	-	-	-	-	4 137	5 207	6 463	7 925	9 614
60	-	-	-	-	-	4 685	5 855	7 219	8 798
65	-	-	-	-	-	-	5 219	6 485	7 954

**Power input in W**

30	-	1 876	1 864	1 857	1 850	1 838	1 816	1 779	1 722
35	-	2 130	2 111	2 099	2 090	2 077	2 055	2 021	1 967
40	-	2 413	2 388	2 373	2 360	2 347	2 327	2 295	2 246
45	-	-	2 700	2 681	2 667	2 654	2 635	2 607	2 564
50	-	-	-	3 029	3 014	3 002	2 986	2 962	2 924
55	-	-	-	-	3 407	3 395	3 383	3 363	3 333
60	-	-	-	-	-	3 840	3 831	3 817	3 793
65	-	-	-	-	-	-	4 334	4 327	4 311

**Current consumption in A**

30	-	6.19	6.09	6.21	6.46	6.76	7.03	7.19	7.16
35	-	7.80	7.55	7.52	7.64	7.83	8.00	8.08	7.98
40	-	8.93	8.54	8.40	8.42	8.52	8.63	8.66	8.53
45	-	-	9.28	9.05	9.00	9.05	9.12	9.13	8.99
50	-	-	-	9.66	9.58	9.60	9.67	9.68	9.57
55	-	-	-	-	10.36	10.39	10.47	10.53	10.47
60	-	-	-	-	-	11.61	11.74	11.87	11.90
65	-	-	-	-	-	-	13.68	13.90	14.04

**Mass flow in kg/h**

30	-	66	84	105	129	157	189	226	268
35	-	66	83	103	127	155	187	224	265
40	-	64	81	102	125	153	185	221	261
45	-	-	79	99	123	150	182	217	258
50	-	-	-	96	120	147	178	213	254
55	-	-	-	-	116	143	174	209	249
60	-	-	-	-	-	138	169	204	243
65	-	-	-	-	-	-	163	198	237

**Coefficient of performance (C.O.P.)**

30	-	1.58	2.05	2.61	3.28	4.09	5.07	6.27	7.78
35	-	1.30	1.70	2.17	2.73	3.41	4.22	5.22	6.44
40	-	1.07	1.40	1.79	2.26	2.83	3.50	4.32	5.31
45	-	-	1.14	1.47	1.86	2.33	2.89	3.55	4.36
50	-	-	-	1.19	1.51	1.90	2.36	2.91	3.56
55	-	-	-	-	1.21	1.53	1.91	2.36	2.88
60	-	-	-	-	-	1.22	1.53	1.89	2.32
65	-	-	-	-	-	-	1.20	1.50	1.85

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	4 962	W
Power input	2 667	W
Current consumption	9.00	A
Mass flow	123	kg/h
C.O.P.	1.86	

**Pressure switch settings**

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 50 Hz,

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Power input in W

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = °C, tc = °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = °C , Subcooling = K

Tolerance according EN12900

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**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R448A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 391	4 289	5 355	6 616	8 096	-	-	-	-
20	2 992	3 869	4 892	6 087	7 479	9 094	10 958	-	-
30	-	-	4 344	5 459	6 748	8 239	9 955	11 924	14 170
40	-	-	-	4 746	5 919	7 270	8 826	10 611	12 651
50	-	-	-	-	5 006	6 204	7 584	9 171	10 991
60	-	-	-	-	-	-	6 245	7 620	9 206

**Power input in W**

10	1 145	1 169	1 186	1 199	1 213	-	-	-	-
20	1 427	1 466	1 492	1 510	1 524	1 540	1 561	-	-
30	-	-	1 883	1 908	1 924	1 937	1 950	1 969	1 997
40	-	-	-	2 432	2 453	2 465	2 473	2 481	2 495
50	-	-	-	-	3 152	3 166	3 171	3 171	3 171
60	-	-	-	-	-	-	4 084	4 078	4 068

**Current consumption in A**

10	6.47	6.53	6.55	6.56	6.58	-	-	-	-
20	6.95	7.04	7.09	7.11	7.13	7.15	7.20	-	-
30	-	-	7.88	7.92	7.94	7.96	7.99	8.05	8.17
40	-	-	-	9.13	9.16	9.18	9.19	9.23	9.31
50	-	-	-	-	10.93	10.95	10.96	10.97	11.02
60	-	-	-	-	-	-	13.43	13.43	13.44

**Mass flow in kg/h**

10	55	70	88	110	135	-	-	-	-
20	52	68	86	108	133	163	199	-	-
30	-	-	83	105	130	160	196	237	285
40	-	-	-	100	125	155	191	232	280
50	-	-	-	-	118	148	183	224	272
60	-	-	-	-	-	-	172	213	261

**Coefficient of performance (C.O.P.)**

10	2.96	3.67	4.52	5.52	6.68	-	-	-	-
20	2.10	2.64	3.28	4.03	4.91	5.91	7.02	-	-
30	-	-	2.31	2.86	3.51	4.25	5.11	6.06	7.09
40	-	-	-	1.95	2.41	2.95	3.57	4.28	5.07
50	-	-	-	-	1.59	1.96	2.39	2.89	3.47
60	-	-	-	-	-	-	1.53	1.87	2.26

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 472	W
Power input	2 779	W
Current consumption	9.97	A
Mass flow	122	kg/h
C.O.P.	1.97	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R448A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 405	4 310	5 385	6 657	8 148	-	-	-	-
20	2 966	3 844	4 872	6 074	7 477	9 105	10 978	-	-
30	2 476	3 311	4 274	5 393	6 692	8 197	9 932	11 917	14 170
40	-	-	3 611	4 629	5 810	7 177	8 758	10 576	12 651
50	-	-	-	3 802	4 847	6 062	7 474	9 109	10 991
60	-	-	-	-	3 823	4 868	6 094	7 530	9 206

**Power input in W**

10	1 145	1 169	1 186	1 199	1 213	-	-	-	-
20	1 427	1 466	1 492	1 510	1 524	1 540	1 561	-	-
30	1 789	1 844	1 883	1 908	1 924	1 937	1 950	1 969	1 997
40	-	-	2 398	2 432	2 453	2 465	2 473	2 481	2 495
50	-	-	-	3 125	3 152	3 166	3 171	3 171	3 171
60	-	-	-	-	4 063	4 080	4 084	4 078	4 068

**Current consumption in A**

10	6.47	6.53	6.55	6.56	6.58	-	-	-	-
20	6.95	7.04	7.09	7.11	7.13	7.15	7.20	-	-
30	7.66	7.80	7.88	7.92	7.94	7.96	7.99	8.05	8.17
40	-	-	9.07	9.13	9.16	9.18	9.19	9.23	9.31
50	-	-	-	10.88	10.93	10.95	10.96	10.97	11.02
60	-	-	-	-	13.39	13.42	13.43	13.43	13.44

**Mass flow in kg/h**

10	65	82	101	123	148	-	-	-	-
20	62	79	99	121	146	176	209	-	-
30	57	75	95	117	143	172	206	243	285
40	-	-	89	111	137	167	200	238	280
50	-	-	-	103	129	159	192	230	272
60	-	-	-	-	118	148	181	219	261

**Coefficient of performance (C.O.P.)**

10	2.97	3.69	4.54	5.55	6.72	-	-	-	-
20	2.08	2.62	3.26	4.02	4.90	5.91	7.03	-	-
30	1.38	1.79	2.27	2.83	3.48	4.23	5.09	6.05	7.09
40	-	-	1.51	1.90	2.37	2.91	3.54	4.26	5.07
50	-	-	-	1.22	1.54	1.91	2.36	2.87	3.47
60	-	-	-	-	0.94	1.19	1.49	1.85	2.26

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 337	W
Power input	2 779	W
Current consumption	9.97	A
Mass flow	134	kg/h
C.O.P.	1.92	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

**R448A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 861	4 895	6 147	7 647	9 429	-	-	-	-
20	3 570	4 584	5 787	7 211	8 887	10 847	13 123	-	-
30	-	-	5 303	6 618	8 158	9 953	12 035	14 437	17 189
40	-	-	-	5 909	7 280	8 879	10 736	12 884	15 354
50	-	-	-	-	6 294	7 664	9 265	11 128	13 285
60	-	-	-	-	-	-	7 662	9 208	11 020

**Power input in W**

10	1 339	1 368	1 400	1 438	1 486	-	-	-	-
20	1 683	1 712	1 741	1 772	1 810	1 858	1 918	-	-
30	-	-	2 194	2 217	2 245	2 278	2 321	2 377	2 448
40	-	-	-	2 822	2 837	2 855	2 880	2 914	2 961
50	-	-	-	-	3 636	3 638	3 643	3 654	3 675
60	-	-	-	-	-	-	4 659	4 646	4 640

**Current consumption in A**

10	5.97	6.08	6.16	6.21	6.27	-	-	-	-
20	6.75	6.87	6.95	7.00	7.05	7.10	7.19	-	-
30	-	-	7.84	7.90	7.93	7.98	8.04	8.15	8.32
40	-	-	-	9.13	9.16	9.19	9.24	9.33	9.46
50	-	-	-	-	10.96	10.98	11.01	11.08	11.19
60	-	-	-	-	-	-	13.59	13.63	13.72

**Mass flow in kg/h**

10	63	80	101	127	157	-	-	-	-
20	62	81	102	128	158	195	238	-	-
30	-	-	101	127	157	194	237	287	346
40	-	-	-	124	154	190	232	281	339
50	-	-	-	-	148	182	223	272	328
60	-	-	-	-	-	-	212	258	313

**Coefficient of performance (C.O.P.)**

10	2.88	3.58	4.39	5.32	6.35	-	-	-	-
20	2.12	2.68	3.32	4.07	4.91	5.84	6.84	-	-
30	-	-	2.42	2.98	3.63	4.37	5.19	6.07	7.02
40	-	-	-	2.09	2.57	3.11	3.73	4.42	5.19
50	-	-	-	-	1.73	2.11	2.54	3.05	3.61
60	-	-	-	-	-	-	1.64	1.98	2.37

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 798	W
Power input	3 208	W
Current consumption	9.97	A
Mass flow	151	kg/h
C.O.P.	2.12	

to: Evaporating temperature at dew point  
 tc: Condensing temperature at dew point  
 Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R448A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 877	4 919	6 181	7 695	9 490	-	-	-	-
20	3 539	4 554	5 763	7 196	8 885	10 860	13 148	-	-
30	3 138	4 095	5 218	6 538	8 090	9 903	12 007	14 429	17 189
40	-	-	4 587	5 764	7 146	8 765	10 654	12 842	15 354
50	-	-	-	4 913	6 095	7 489	9 131	11 052	13 285
60	-	-	-	-	4 976	6 114	7 476	9 100	11 020

**Power input in W**

10	1 339	1 368	1 400	1 438	1 486	-	-	-	-
20	1 683	1 712	1 741	1 772	1 810	1 858	1 918	-	-
30	2 143	2 170	2 194	2 217	2 245	2 278	2 321	2 377	2 448
40	-	-	2 807	2 822	2 837	2 855	2 880	2 914	2 961
50	-	-	-	3 635	3 636	3 638	3 643	3 654	3 675
60	-	-	-	-	4 692	4 675	4 659	4 646	4 640

**Current consumption in A**

10	5.97	6.08	6.16	6.21	6.27	-	-	-	-
20	6.75	6.87	6.95	7.00	7.05	7.10	7.19	-	-
30	7.63	7.76	7.84	7.90	7.93	7.98	8.04	8.15	8.32
40	-	-	9.08	9.13	9.16	9.19	9.24	9.33	9.46
50	-	-	-	10.92	10.96	10.98	11.01	11.08	11.19
60	-	-	-	-	13.54	13.56	13.59	13.63	13.72

**Mass flow in kg/h**

10	74	94	116	142	172	-	-	-	-
20	74	94	117	143	174	209	250	-	-
30	73	93	116	142	173	208	249	295	346
40	-	-	113	139	169	204	244	289	339
50	-	-	-	134	163	196	235	279	328
60	-	-	-	-	154	186	223	265	313

**Coefficient of performance (C.O.P.)**

10	2.90	3.60	4.42	5.35	6.39	-	-	-	-
20	2.10	2.66	3.31	4.06	4.91	5.85	6.86	-	-
30	1.46	1.89	2.38	2.95	3.60	4.35	5.17	6.07	7.02
40	-	-	1.63	2.04	2.52	3.07	3.70	4.41	5.19
50	-	-	-	1.35	1.68	2.06	2.51	3.02	3.61
60	-	-	-	-	1.06	1.31	1.60	1.96	2.37

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 631	W
Power input	3 208	W
Current consumption	9.97	A
Mass flow	166	kg/h
C.O.P.	2.07	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900



**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R449A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 391	4 289	5 355	6 616	8 096	-	-	-	-
20	2 992	3 869	4 892	6 087	7 479	9 094	10 958	-	-
30	-	-	4 344	5 459	6 748	8 239	9 955	11 924	14 170
40	-	-	-	4 746	5 919	7 270	8 826	10 611	12 651
50	-	-	-	-	5 006	6 204	7 584	9 171	10 991
60	-	-	-	-	-	-	6 245	7 620	9 206

**Power input in W**

10	1 145	1 169	1 186	1 199	1 213	-	-	-	-
20	1 427	1 466	1 492	1 510	1 524	1 540	1 561	-	-
30	-	-	1 883	1 908	1 924	1 937	1 950	1 969	1 997
40	-	-	-	2 432	2 453	2 465	2 473	2 481	2 495
50	-	-	-	-	3 152	3 166	3 171	3 171	3 171
60	-	-	-	-	-	-	4 084	4 078	4 068

**Current consumption in A**

10	6.47	6.53	6.55	6.56	6.58	-	-	-	-
20	6.95	7.04	7.09	7.11	7.13	7.15	7.20	-	-
30	-	-	7.88	7.92	7.94	7.96	7.99	8.05	8.17
40	-	-	-	9.13	9.16	9.18	9.19	9.23	9.31
50	-	-	-	-	10.93	10.95	10.96	10.97	11.02
60	-	-	-	-	-	-	13.43	13.43	13.44

**Mass flow in kg/h**

10	55	70	88	110	135	-	-	-	-
20	52	68	86	108	133	163	199	-	-
30	-	-	83	105	130	160	196	237	285
40	-	-	-	100	125	155	191	232	280
50	-	-	-	-	118	148	183	224	272
60	-	-	-	-	-	-	172	213	261

**Coefficient of performance (C.O.P.)**

10	2.96	3.67	4.52	5.52	6.68	-	-	-	-
20	2.10	2.64	3.28	4.03	4.91	5.91	7.02	-	-
30	-	-	2.31	2.86	3.51	4.25	5.11	6.06	7.09
40	-	-	-	1.95	2.41	2.95	3.57	4.28	5.07
50	-	-	-	-	1.59	1.96	2.39	2.89	3.47
60	-	-	-	-	-	-	1.53	1.87	2.26

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 472	W
Power input	2 779	W
Current consumption	9.97	A
Mass flow	122	kg/h
C.O.P.	1.97	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R449A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 397	4 302	5 377	6 649	8 141	-	-	-	-
20	2 959	3 836	4 863	6 066	7 469	9 097	10 972	-	-
30	2 468	3 302	4 265	5 383	6 683	8 189	9 926	11 914	14 170
40	-	-	3 601	4 620	5 800	7 169	8 752	10 572	12 651
50	-	-	-	3 792	4 838	6 053	7 467	9 104	10 991
60	-	-	-	-	3 813	4 859	6 087	7 526	9 206

**Power input in W**

10	1 145	1 169	1 186	1 199	1 213	-	-	-	-
20	1 427	1 466	1 492	1 510	1 524	1 540	1 561	-	-
30	1 789	1 844	1 883	1 908	1 924	1 937	1 950	1 969	1 997
40	-	-	2 398	2 432	2 453	2 465	2 473	2 481	2 495
50	-	-	-	3 125	3 152	3 166	3 171	3 171	3 171
60	-	-	-	-	4 063	4 080	4 084	4 078	4 068

**Current consumption in A**

10	6.47	6.53	6.55	6.56	6.58	-	-	-	-
20	6.95	7.04	7.09	7.11	7.13	7.15	7.20	-	-
30	7.66	7.80	7.88	7.92	7.94	7.96	7.99	8.05	8.17
40	-	-	9.07	9.13	9.16	9.18	9.19	9.23	9.31
50	-	-	-	10.88	10.93	10.95	10.96	10.97	11.02
60	-	-	-	-	13.39	13.42	13.43	13.43	13.44

**Mass flow in kg/h**

10	65	82	101	123	148	-	-	-	-
20	62	79	99	121	146	176	209	-	-
30	57	75	95	117	143	172	206	243	285
40	-	-	89	111	137	167	200	238	280
50	-	-	-	103	129	159	192	230	272
60	-	-	-	-	118	148	181	219	261

**Coefficient of performance (C.O.P.)**

10	2.97	3.68	4.54	5.55	6.71	-	-	-	-
20	2.07	2.62	3.26	4.02	4.90	5.91	7.03	-	-
30	1.38	1.79	2.27	2.82	3.47	4.23	5.09	6.05	7.09
40	-	-	1.50	1.90	2.36	2.91	3.54	4.26	5.07
50	-	-	-	1.21	1.53	1.91	2.35	2.87	3.47
60	-	-	-	-	0.94	1.19	1.49	1.85	2.26

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 328	W
Power input	2 779	W
Current consumption	9.97	A
Mass flow	134	kg/h
C.O.P.	1.92	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R449A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 861	4 895	6 147	7 647	9 429	-	-	-	-
20	3 570	4 584	5 787	7 211	8 887	10 847	13 123	-	-
30	-	-	5 303	6 618	8 158	9 953	12 035	14 437	17 189
40	-	-	-	5 909	7 280	8 879	10 736	12 884	15 354
50	-	-	-	-	6 294	7 664	9 265	11 128	13 285
60	-	-	-	-	-	-	7 662	9 208	11 020

**Power input in W**

10	1 339	1 368	1 400	1 438	1 486	-	-	-	-
20	1 683	1 712	1 741	1 772	1 810	1 858	1 918	-	-
30	-	-	2 194	2 217	2 245	2 278	2 321	2 377	2 448
40	-	-	-	2 822	2 837	2 855	2 880	2 914	2 961
50	-	-	-	-	3 636	3 638	3 643	3 654	3 675
60	-	-	-	-	-	-	4 659	4 646	4 640

**Current consumption in A**

10	5.97	6.08	6.16	6.21	6.27	-	-	-	-
20	6.75	6.87	6.95	7.00	7.05	7.10	7.19	-	-
30	-	-	7.84	7.90	7.93	7.98	8.04	8.15	8.32
40	-	-	-	9.13	9.16	9.19	9.24	9.33	9.46
50	-	-	-	-	10.96	10.98	11.01	11.08	11.19
60	-	-	-	-	-	-	13.59	13.63	13.72

**Mass flow in kg/h**

10	64	82	103	129	159	-	-	-	-
20	64	82	104	130	161	198	242	-	-
30	-	-	103	129	160	197	241	292	352
40	-	-	-	126	157	193	236	287	346
50	-	-	-	-	151	186	228	278	335
60	-	-	-	-	-	-	216	264	320

**Coefficient of performance (C.O.P.)**

10	2.88	3.58	4.39	5.32	6.35	-	-	-	-
20	2.12	2.68	3.32	4.07	4.91	5.84	6.84	-	-
30	-	-	2.42	2.98	3.63	4.37	5.19	6.07	7.02
40	-	-	-	2.09	2.57	3.11	3.73	4.42	5.19
50	-	-	-	-	1.73	2.11	2.54	3.05	3.61
60	-	-	-	-	-	-	1.64	1.98	2.37

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 798	W
Power input	3 208	W
Current consumption	9.97	A
Mass flow	154	kg/h
C.O.P.	2.12	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K

**R449A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 869	4 910	6 172	7 685	9 481	-	-	-	-
20	3 530	4 545	5 753	7 186	8 875	10 851	13 141	-	-
30	3 129	4 085	5 206	6 527	8 079	9 893	11 999	14 424	17 189
40	-	-	4 575	5 752	7 134	8 755	10 646	12 837	15 354
50	-	-	-	4 901	6 082	7 478	9 122	11 047	13 285
60	-	-	-	-	4 963	6 103	7 468	9 094	11 020

**Power input in W**

10	1 339	1 368	1 400	1 438	1 486	-	-	-	-
20	1 683	1 712	1 741	1 772	1 810	1 858	1 918	-	-
30	2 143	2 170	2 194	2 217	2 245	2 278	2 321	2 377	2 448
40	-	-	2 807	2 822	2 837	2 855	2 880	2 914	2 961
50	-	-	-	3 635	3 636	3 638	3 643	3 654	3 675
60	-	-	-	-	4 692	4 675	4 659	4 646	4 640

**Current consumption in A**

10	5.97	6.08	6.16	6.21	6.27	-	-	-	-
20	6.75	6.87	6.95	7.00	7.05	7.10	7.19	-	-
30	7.63	7.76	7.84	7.90	7.93	7.98	8.04	8.15	8.32
40	-	-	9.08	9.13	9.16	9.19	9.24	9.33	9.46
50	-	-	-	10.92	10.96	10.98	11.01	11.08	11.19
60	-	-	-	-	13.54	13.56	13.59	13.63	13.72

**Mass flow in kg/h**

10	76	95	118	144	175	-	-	-	-
20	75	95	119	145	177	213	255	-	-
30	74	95	118	145	176	212	254	300	352
40	-	-	115	142	172	208	249	295	346
50	-	-	-	136	166	200	240	285	335
60	-	-	-	-	157	190	228	271	320

**Coefficient of performance (C.O.P.)**

10	2.89	3.59	4.41	5.34	6.38	-	-	-	-
20	2.10	2.65	3.31	4.05	4.90	5.84	6.85	-	-
30	1.46	1.88	2.37	2.94	3.60	4.34	5.17	6.07	7.02
40	-	-	1.63	2.04	2.51	3.07	3.70	4.41	5.19
50	-	-	-	1.35	1.67	2.06	2.50	3.02	3.61
60	-	-	-	-	1.06	1.31	1.60	1.96	2.37

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 619	W
Power input	3 208	W
Current consumption	9.97	A
Mass flow	169	kg/h
C.O.P.	2.06	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R452A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 695	4 596	5 684	6 982	8 511	-	-	-	-
20	3 324	4 191	5 222	6 438	7 862	9 516	11 421	-	-
30	-	3 726	4 672	5 781	7 075	8 573	10 300	12 276	14 523
40	-	-	4 057	5 033	6 168	7 486	9 008	10 756	12 751
50	-	-	-	-	5 164	6 275	7 566	9 059	10 777
60	-	-	-	-	-	4 960	5 995	7 207	8 620

**Power input in W**

10	1 181	1 203	1 219	1 226	1 223	-	-	-	-
20	1 497	1 524	1 549	1 570	1 585	1 593	1 591	-	-
30	-	1 920	1 941	1 962	1 983	2 000	2 013	2 018	2 015
40	-	-	2 471	2 479	2 490	2 504	2 517	2 528	2 535
50	-	-	-	-	3 184	3 179	3 180	3 183	3 187
60	-	-	-	-	-	4 104	4 077	4 058	4 045

**Current consumption in A**

10	6.63	6.63	6.61	6.60	6.60	-	-	-	-
20	7.16	7.22	7.25	7.27	7.29	7.31	7.34	-	-
30	-	8.00	8.07	8.12	8.16	8.19	8.21	8.25	8.30
40	-	-	9.26	9.34	9.39	9.42	9.44	9.45	9.47
50	-	-	-	-	11.15	11.18	11.19	11.18	11.17
60	-	-	-	-	-	13.64	13.63	13.60	13.55

**Mass flow in kg/h**

10	74	94	117	144	176	-	-	-	-
20	73	93	116	144	176	215	261	-	-
30	-	91	114	141	174	213	259	313	376
40	-	-	110	137	170	208	254	307	369
50	-	-	-	-	162	200	245	298	359
60	-	-	-	-	-	189	232	284	344

**Coefficient of performance (C.O.P.)**

10	3.13	3.82	4.66	5.69	6.96	-	-	-	-
20	2.22	2.75	3.37	4.10	4.96	5.97	7.18	-	-
30	-	1.94	2.41	2.95	3.57	4.29	5.12	6.08	7.21
40	-	-	1.64	2.03	2.48	2.99	3.58	4.25	5.03
50	-	-	-	-	1.62	1.97	2.38	2.85	3.38
60	-	-	-	-	-	1.21	1.47	1.78	2.13

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 677	W
Power input	2 809	W
Current consumption	10.19	A
Mass flow	166	kg/h
C.O.P.	2.02	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R452A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 576	4 474	5 565	6 874	8 421	-	-	-	-
20	3 155	4 011	5 039	6 262	7 704	9 387	11 333	-	-
30	2 704	3 491	4 427	5 538	6 848	8 379	10 157	12 199	14 523
40	2 242	2 934	3 753	4 725	5 875	7 229	8 811	10 645	12 751
50	-	-	3 038	3 846	4 810	5 958	7 316	8 914	10 777
60	-	-	-	-	3 668	4 584	5 692	7 026	8 620

**Power input in W**

10	1 181	1 203	1 219	1 226	1 223	-	-	-	-
20	1 497	1 524	1 549	1 570	1 585	1 593	1 591	-	-
30	1 903	1 920	1 941	1 962	1 983	2 000	2 013	2 018	2 015
40	2 474	2 469	2 471	2 479	2 490	2 504	2 517	2 528	2 535
50	-	-	3 215	3 195	3 184	3 179	3 180	3 183	3 187
60	-	-	-	-	4 140	4 104	4 077	4 058	4 045

**Current consumption in A**

10	6.63	6.63	6.61	6.60	6.60	-	-	-	-
20	7.16	7.22	7.25	7.27	7.29	7.31	7.34	-	-
30	7.89	8.00	8.07	8.12	8.16	8.19	8.21	8.25	8.30
40	8.98	9.14	9.26	9.34	9.39	9.42	9.44	9.45	9.47
50	-	-	10.98	11.08	11.15	11.18	11.19	11.18	11.17
60	-	-	-	-	13.60	13.64	13.63	13.60	13.55

**Mass flow in kg/h**

10	88	109	133	161	194	-	-	-	-
20	87	108	133	161	194	232	275	-	-
30	84	106	130	159	192	230	273	322	376
40	80	101	126	154	187	224	267	316	369
50	-	-	119	147	178	215	258	306	359
60	-	-	-	-	167	203	245	292	344

**Coefficient of performance (C.O.P.)**

10	3.03	3.72	4.57	5.61	6.89	-	-	-	-
20	2.11	2.63	3.25	3.99	4.86	5.89	7.12	-	-
30	1.42	1.82	2.28	2.82	3.45	4.19	5.05	6.04	7.21
40	0.91	1.19	1.52	1.91	2.36	2.89	3.50	4.21	5.03
50	-	-	0.94	1.20	1.51	1.87	2.30	2.80	3.38
60	-	-	-	-	0.89	1.12	1.40	1.73	2.13

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 353	W
Power input	2 809	W
Current consumption	10.19	A
Mass flow	183	kg/h
C.O.P.	1.91	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

**R452A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 466	5 540	6 852	8 429	10 296	-	-	-	-
20	4 039	5 048	6 268	7 725	9 446	11 456	13 782	-	-
30	-	4 534	5 631	6 938	8 481	10 287	12 381	14 791	17 540
40	-	-	4 960	6 087	7 422	8 993	10 826	12 947	15 382
50	-	-	-	-	6 289	7 595	9 136	10 938	13 028
60	-	-	-	-	-	6 111	7 330	8 784	10 500

**Power input in W**

10	1 538	1 582	1 612	1 637	1 662	-	-	-	-
20	1 815	1 881	1 924	1 952	1 971	1 990	2 017	-	-
30	-	2 279	2 345	2 386	2 410	2 424	2 436	2 453	2 483
40	-	-	2 890	2 955	2 993	3 013	3 021	3 025	3 032
50	-	-	-	-	3 739	3 774	3 788	3 789	3 784
60	-	-	-	-	-	4 722	4 752	4 761	4 754

**Current consumption in A**

10	6.76	6.64	6.56	6.54	6.60	-	-	-	-
20	7.17	7.18	7.17	7.16	7.18	7.24	7.37	-	-
30	-	7.90	8.02	8.09	8.13	8.16	8.20	8.28	8.41
40	-	-	9.13	9.35	9.48	9.54	9.56	9.55	9.55
50	-	-	-	-	11.22	11.38	11.44	11.43	11.35
60	-	-	-	-	-	13.70	13.87	13.91	13.84

**Mass flow in kg/h**

10	90	113	141	173	213	-	-	-	-
20	89	112	139	172	212	259	315	-	-
30	-	110	137	170	209	256	311	377	454
40	-	-	134	166	204	250	305	370	446
50	-	-	-	-	198	242	296	359	434
60	-	-	-	-	-	233	284	346	419

**Coefficient of performance (C.O.P.)**

10	2.90	3.50	4.25	5.15	6.19	-	-	-	-
20	2.23	2.68	3.26	3.96	4.79	5.76	6.83	-	-
30	-	1.99	2.40	2.91	3.52	4.24	5.08	6.03	7.06
40	-	-	1.72	2.06	2.48	2.98	3.58	4.28	5.07
50	-	-	-	-	1.68	2.01	2.41	2.89	3.44
60	-	-	-	-	-	1.29	1.54	1.85	2.21

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 864	W
Power input	3 345	W
Current consumption	10.30	A
Mass flow	201	kg/h
C.O.P.	2.05	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R452A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 321	5 393	6 709	8 298	10 187	-	-	-	-
20	3 833	4 832	6 049	7 514	9 255	11 301	13 675	-	-
30	3 352	4 248	5 336	6 646	8 209	10 054	12 209	14 699	17 540
40	2 892	3 658	4 588	5 715	7 070	8 684	10 589	12 813	15 382
50	-	-	3 823	4 739	5 857	7 210	8 834	10 762	13 028
60	-	-	-	-	4 582	5 646	6 960	8 563	10 500

**Power input in W**

10	1 538	1 582	1 612	1 637	1 662	-	-	-	-
20	1 815	1 881	1 924	1 952	1 971	1 990	2 017	-	-
30	2 181	2 279	2 345	2 386	2 410	2 424	2 436	2 453	2 483
40	2 652	2 792	2 890	2 955	2 993	3 013	3 021	3 025	3 032
50	-	-	3 577	3 676	3 739	3 774	3 788	3 789	3 784
60	-	-	-	-	4 661	4 722	4 752	4 761	4 754

**Current consumption in A**

10	6.76	6.64	6.56	6.54	6.60	-	-	-	-
20	7.17	7.18	7.17	7.16	7.18	7.24	7.37	-	-
30	7.70	7.90	8.02	8.09	8.13	8.16	8.20	8.28	8.41
40	8.34	8.80	9.13	9.35	9.48	9.54	9.56	9.55	9.55
50	-	-	10.50	10.93	11.22	11.38	11.44	11.43	11.35
60	-	-	-	-	13.37	13.70	13.87	13.91	13.84

**Mass flow in kg/h**

10	107	132	161	195	234	-	-	-	-
20	105	130	160	193	233	279	332	-	-
30	104	129	157	190	230	275	328	388	454
40	103	126	154	186	224	269	321	380	446
50	-	-	150	181	217	261	312	369	434
60	-	-	-	-	209	251	299	356	419

**Coefficient of performance (C.O.P.)**

10	2.81	3.41	4.16	5.07	6.13	-	-	-	-
20	2.11	2.57	3.14	3.85	4.70	5.68	6.78	-	-
30	1.54	1.86	2.28	2.79	3.41	4.15	5.01	5.99	7.06
40	1.09	1.31	1.59	1.93	2.36	2.88	3.51	4.24	5.07
50	-	-	1.07	1.29	1.57	1.91	2.33	2.84	3.44
60	-	-	-	-	0.98	1.20	1.46	1.80	2.21

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 472	W
Power input	3 345	W
Current consumption	10.30	A
Mass flow	221	kg/h
C.O.P.	1.93	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

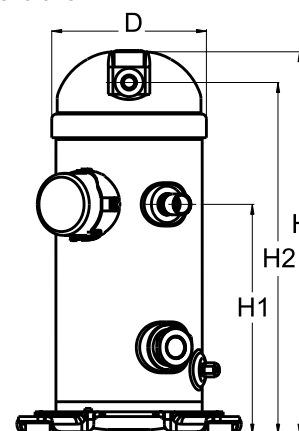
Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900



**General Characteristics**

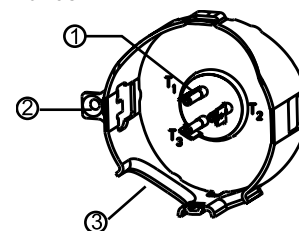
Model number (on compressor nameplate)	MLZ026T4LP9	MLZ026T4LP9
Code number for Singlepack*	121U8008	120U8008
Code number for Industrial pack**	121U8007	120U8007
Drawing number	0XC6300B-1	0XC6300B-1
Suction and discharge connections	Brazed	Brazed
Suction connection	3/4" ODF	3/4" ODF
Discharge connection	1/2" ODF	1/2" ODF
Oil sight glass	Threaded	Threaded
Oil equalisation connection	None	None
Oil drain connection	1/4" flare	1/4" flare
LP gauge port	None	None
IPR valve	32 bar	32 bar
Swept volume	57.11 cm <sup>3</sup> /rev	
Displacement @ Nominal speed	9.9 m <sup>3</sup> /h @ 2900 rpm - 12.0 m <sup>3</sup> /h @ 3500 rpm	
Net weight	31 kg	
Oil charge	1.06 litre, PVE --	
Maximum system test pressure Low Side / High side	- bar(g) / - bar(g)	
Maximum differential test pressure	- bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	3.63 kg	
Approved refrigerants	R404A, R507, R134a, R407A, R407C, R407F, R22	

**Dimensions**


D=164.5 mm  
H=412 mm  
H1=250 mm  
H2=379 mm  
H3= mm

**Electrical Characteristics**

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-460 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance between phases 1-2 +/- 7% at 25°C	4.664 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	3.422 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	4.664 Ω
Rated Load Amps (RLA)	6.4 A
Maximum Continuous Current (MCC)	10 A
Locked Rotor Amps (LRA)	45 A
Motor protection	Internal overload protector

**Terminal box**


IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Suction Rotolock nut or valve	0 Nm
Discharge Rotolock nut or valve	0 Nm
Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, UL certified (file SA11565), -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**

**Code no.**

Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
Gasket, 1-1/4"	8156131

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

**Rotolock accessories, sets**

**Code no.**

Solder sleeve adapter set (1-1/4" Rotolock, 3/4" ODF), (1" Rotolock, 1/2" ODF)	120Z0126
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

**Oil / lubricants**

**Code no.**

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
Belt type crankcase heater, 70 W, 400/460V, CE mark, UL	120Z5041

**Miscellaneous accessories**

**Code no.**

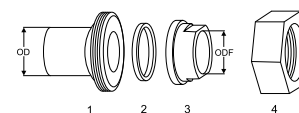
Acoustic hood	120Z5043
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**Spare parts**

**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

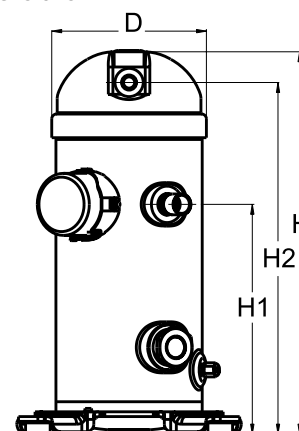
**Solder sleeve adapter set**



- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)

**General Characteristics**

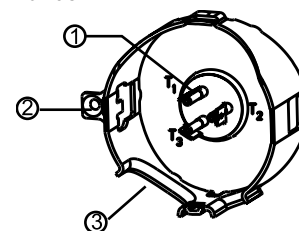
Model number (on compressor nameplate)	MLZ026T4LP9A	MLZ026T4LP9A
Code number for Singlepack*	121U8637	121L8637
Code number for Industrial pack**	121U8636	121L8636
Drawing number	0XC6300B-1	0XC6300B-1
Suction and discharge connections	Brazed	Brazed
Suction connection	3/4" ODF	3/4" ODF
Discharge connection	1/2" ODF	1/2" ODF
Oil sight glass	Threaded	Threaded
Oil equalisation connection	None	None
Oil drain connection	1/4" flare	1/4" flare
LP gauge port	None	None
IPR valve	32 bar	32 bar
Swept volume	57.11 cm <sup>3</sup> /rev	
Displacement @ Nominal speed	9.9 m <sup>3</sup> /h @ 2900 rpm - 12.0 m <sup>3</sup> /h @ 3500 rpm	
Net weight	31 kg	
Oil charge	1.06 litre, POE --	
Maximum system test pressure Low Side / High side	- bar(g) / - bar(g)	
Maximum differential test pressure	- bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	3.63 kg	
Approved refrigerants	R404A,R507,R134a,R407A,R407F,R448A,R449A,R452A,R22	

**Dimensions**


D=164.5 mm  
H=412 mm  
H1=250 mm  
H2=379 mm  
H3= mm

**Electrical Characteristics**

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-460 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance between phases 1-2 +/- 7% at 25°C	4.664 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	3.422 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	4.664 Ω
Rated Load Amps (RLA)	6.4 A
Maximum Continuous Current (MCC)	10 A
Locked Rotor Amps (LRA)	45 A
Motor protection	Internal overload protector

**Terminal box**


IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Suction Rotolock nut or valve	0 Nm
Discharge Rotolock nut or valve	0 Nm
Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, -, -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**

**Code no.**

Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
Gasket, 1-1/4"	8156131

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

**Rotolock accessories, sets**

**Code no.**

Solder sleeve adapter set (1-1/4" Rotolock, 3/4" ODF), (1" Rotolock, 1/2" ODF)	120Z0126
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

**Oil / lubricants**

**Code no.**

POE lubricant, 215PZ(PL46HB), 1 litre can	120Z0648
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
Belt type crankcase heater, 70 W, 400/460V, CE mark, UL	120Z5041

**Miscellaneous accessories**

**Code no.**

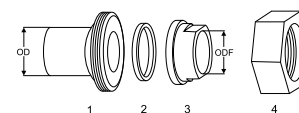
Acoustic hood	120Z5083
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**Spare parts**

**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

**Solder sleeve adapter set**

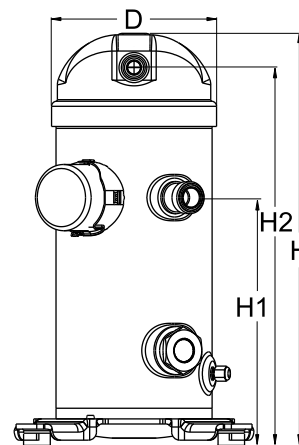


- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)

**General Characteristics**

Model number (on compressor nameplate)		<b>MLZ026T4LT9</b>
Code number for Singlepack*		121U8535
Code number for Industrial pack**		121U8534
Drawing number		0XC6290B-1
Suction and discharge connections		Rotolock
Suction connection		2-1/4 " Rotolock
Discharge connection		1-3/4 " Rotolock
Suction connection with supplied sleeve		1-5/8 " -
Discharge connection with supplied sleeve	- "	1-1/8 " -
Oil sight glass		Threaded
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		None
Swept volume		57.11 cm3/rev
Displacement @ Nominal speed		9.9 m3/h @ 2900 rpm - 12.0 m3/h @ 3500 rpm
Net weight		31 kg
Oil charge		1.06 litre, PVE - -
Maximum system test pressure Low Side / High side		- bar(g) / - bar(g)
Maximum differential test pressure		- bar
Maximum number of starts per hour		12
Refrigerant charge limit		3.63 kg
Approved refrigerants		R404A, R507, R134a, R407A, R407C, R407F, R22

**Dimensions**

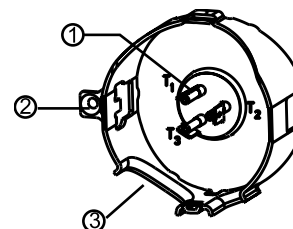


D=184 mm  
H=412.1 mm  
H1=249.8 mm  
H2=379.4 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-460 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance between phases 1-2 +/- 7% at 25°C	4.664 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	3.422 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	4.664 Ω
Rated Load Amps (RLA)	6.4 A
Maximum Continuous Current (MCC)	10 A
Locked Rotor Amps (LRA)	45 A
Motor protection	Internal overload protector

**Terminal box**



IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, UL certified (file SA11565), -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**

**Code no.**

Solder sleeve, P03 (2-1/4" Rotolock, 1-5/8" ODF)	8153006
Rotolock valve, V03 (2-1/4" Rotolock, 1-5/8" ODF)	8168026
Gasket, 2-1/4"	8156133

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

**Rotolock accessories, sets**

**Code no.**

Valve set, V03 (2-1/4"~1-5/8"), V02 (1-3/4"~1-1/8")	7703383
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013

**Oil / lubricants**

**Code no.**

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
Belt type crankcase heater, 70 W, 400/460V, CE mark, UL	120Z5041

**Miscellaneous accessories**

**Code no.**

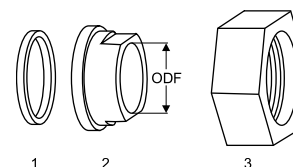
Acoustic hood	120Z5043
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**Spare parts**

**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

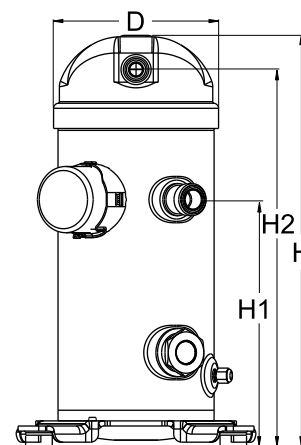
**Gaskets, sleeves and nuts**



- 1: Gasket
- 2: Solder sleeve
- 3: Rotolock nut

**General Characteristics**

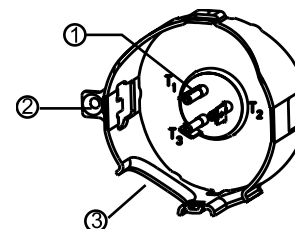
Model number (on compressor nameplate)	MLZ026T4LP9A	MLZ026T4LT9A
Code number for Singlepack*	120U8637	121U8755
Code number for Industrial pack**	120U8636	121U8754
Drawing number	0XC6300B-1	0XC6290B-1
Suction and discharge connections	Brazed	Rotolock
Suction connection	3/4" ODF	2-1/4" Rotolock
Discharge connection	1/2" ODF	1-3/4" Rotolock
Suction connection with supplied sleeve		1-5/8" -
Discharge connection with supplied sleeve	- "	1-1/8" -
Oil sight glass	Threaded	Threaded
Oil equalisation connection	None	None
Oil drain connection	1/4" flare	None
LP gauge port	None	None
IPR valve	32 bar	None
Swept volume	57.11 cm <sup>3</sup> /rev	
Displacement @ Nominal speed	9.9 m <sup>3</sup> /h @ 2900 rpm - 12.0 m <sup>3</sup> /h @ 3500 rpm	
Net weight	31 kg	
Oil charge	1.06 litre, POE - -	
Maximum system test pressure Low Side / High side	- bar(g) / - bar(g)	
Maximum differential test pressure	- bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	3.63 kg	
Approved refrigerants	R404A, R507, R134a, R407A, R407F, R448A, R449A, R452A, R22	

**Dimensions**


D=184 mm  
H=412.1 mm  
H1=249.8 mm  
H2=379.4 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-460 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance between phases 1-2 +/- 7% at 25°C	4.664 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	3.422 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	4.664 Ω
Rated Load Amps (RLA)	6.4 A
Maximum Continuous Current (MCC)	10 A
Locked Rotor Amps (LRA)	45 A
Motor protection	Internal overload protector

**Terminal box**


IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Suction Rotolock nut or valve	0 Nm
Discharge Rotolock nut or valve	0 Nm
Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, UL certified (file SA11565), -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

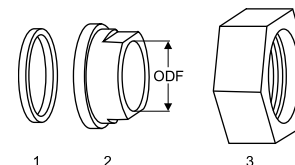
\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**
**Code no.**

Solder sleeve, P03 (2-1/4" Rotolock, 1-5/8" ODF)	8153006
Rotolock valve, V03 (2-1/4" Rotolock, 1-5/8" ODF)	8168026
Gasket, 2-1/4"	8156133

**Gaskets, sleeves and nuts**
**Rotolock accessories, discharge side**
**Code no.**

Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132



1 2 3

- 1: Gasket
- 2: Solder sleeve
- 3: Rotolock nut

**Rotolock accessories, sets**
**Code no.**

Valve set, V03 (2-1/4"~1-5/8"), V02 (1-3/4"~1-1/8")	7703383
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013

**Oil / lubricants**
**Code no.**

POE lubricant, 215PZ(PL46HB), 1 litre can	120Z0648
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**Crankcase heaters**
**Code no.**

Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
Belt type crankcase heater, 70 W, 400/460V, CE mark, UL	120Z5041

**Miscellaneous accessories**
**Code no.**

Acoustic hood	120Z5083
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**Spare parts**
**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015



**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R22**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	

**Cooling capacity in W**

16	5 370	6 356	7 533	8 950	-	-	-	-	-
20	5 108	6 108	7 289	8 700	10 385	-	-	-	-
30	4 485	5 493	6 656	8 023	9 640	11 553	13 801	-	-
40	3 919	4 895	6 000	7 283	8 794	10 578	12 678	-	-
50	-	4 326	5 334	6 495	7 860	9 477	11 391	-	-
60	-	-	-	5 672	6 852	8 263	9 952	-	-
68	-	-	-	-	-	7 220	8 701	-	-

**Power input in W**

16	1 225	1 210	1 195	1 184	-	-	-	-	-
20	1 388	1 380	1 367	1 356	1 352	-	-	-	-
30	1 759	1 772	1 770	1 761	1 750	1 743	1 747	-	-
40	2 129	2 171	2 189	2 190	2 179	2 163	2 148	-	-
50	-	2 646	2 691	2 709	2 706	2 688	2 661	-	-
60	-	-	-	3 386	3 398	3 386	3 355	-	-
68	-	-	-	-	-	4 114	4 086	-	-

**Current consumption in A**

16	2.36	2.33	2.30	2.28	-	-	-	-	-
20	2.67	2.66	2.63	2.61	2.60	-	-	-	-
30	3.38	3.41	3.41	3.39	3.37	3.36	3.36	-	-
40	4.10	4.18	4.21	4.21	4.19	4.16	4.13	-	-
50	-	5.09	5.18	5.21	5.21	5.17	5.12	-	-
60	-	-	-	6.52	6.54	6.52	6.46	-	-
68	-	-	-	-	-	7.92	7.86	-	-

**Mass flow in kg/h**

16	127	142	159	180	-	-	-	-	-
20	118	134	153	175	203	-	-	-	-
30	101	121	143	167	197	232	274	-	-
40	91	113	136	163	194	230	272	-	-
50	-	106	130	158	189	226	268	-	-
60	-	-	-	148	179	216	258	-	-
68	-	-	-	-	-	201	242	-	-

**Coefficient of performance (C.O.P.)**

16	4.38	5.25	6.31	7.56	-	-	-	-	-
20	3.68	4.43	5.33	6.42	7.68	-	-	-	-
30	2.55	3.10	3.76	4.55	5.51	6.63	7.90	-	-
40	1.84	2.25	2.74	3.33	4.04	4.89	5.90	-	-
50	-	1.63	1.98	2.40	2.90	3.53	4.28	-	-
60	-	-	-	1.68	2.02	2.44	2.97	-	-
68	-	-	-	-	-	1.75	2.13	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 667	W
Power input	2 425	W
Current consumption	4.67	A
Mass flow	133	kg/h
C.O.P.	2.34	

**Pressure switch settings**

Maximum HP switch setting	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R22**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	

**Cooling capacity in W**

16	5 239	6 220	7 396	8 818	-	-	-	-	-
20	4 997	5 991	7 169	8 583	10 284	-	-	-	-
30	4 420	5 421	6 580	7 946	9 571	11 506	13 801	-	-
40	-	4 867	5 967	7 247	8 758	10 552	12 678	-	-
50	-	-	-	6 499	7 858	9 472	11 391	-	-
60	-	-	-	-	6 884	8 279	9 952	-	-
68	-	-	-	-	-	-	8 701	-	-

**Power input in W**

16	1 225	1 210	1 195	1 184	-	-	-	-	-
20	1 388	1 380	1 367	1 356	1 352	-	-	-	-
30	1 759	1 772	1 770	1 761	1 750	1 743	1 747	-	-
40	-	2 171	2 189	2 190	2 179	2 163	2 148	-	-
50	-	-	-	2 709	2 706	2 688	2 661	-	-
60	-	-	-	-	3 398	3 386	3 355	-	-
68	-	-	-	-	-	-	4 086	-	-

**Current consumption in A**

16	2.36	2.33	2.30	2.28	-	-	-	-	-
20	2.67	2.66	2.63	2.61	2.60	-	-	-	-
30	3.38	3.41	3.41	3.39	3.37	3.36	3.36	-	-
40	-	4.18	4.21	4.21	4.19	4.16	4.13	-	-
50	-	-	-	5.21	5.21	5.17	5.12	-	-
60	-	-	-	-	6.54	6.52	6.46	-	-
68	-	-	-	-	-	-	7.86	-	-

**Mass flow in kg/h**

16	112	127	146	168	-	-	-	-	-
20	104	120	140	164	193	-	-	-	-
30	89	109	130	156	188	226	274	-	-
40	-	101	125	152	185	224	272	-	-
50	-	-	-	147	180	220	268	-	-
60	-	-	-	-	171	210	258	-	-
68	-	-	-	-	-	-	242	-	-

**Coefficient of performance (C.O.P.)**

16	4.28	5.14	6.19	7.45	-	-	-	-	-
20	3.60	4.34	5.24	6.33	7.61	-	-	-	-
30	2.51	3.06	3.72	4.51	5.47	6.60	7.90	-	-
40	-	2.24	2.73	3.31	4.02	4.88	5.90	-	-
50	-	-	-	2.40	2.90	3.52	4.28	-	-
60	-	-	-	-	2.03	2.45	2.97	-	-
68	-	-	-	-	-	-	2.13	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 656	W
Power input	2 425	W
Current consumption	4.67	A
Mass flow	122	kg/h
C.O.P.	2.33	

**Pressure switch settings**

Maximum HP switch setting	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R22**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	

**Cooling capacity in W**

16	5 849	7 303	9 037	11 066	-	-	-	-	-
20	5 586	6 974	8 623	10 549	12 761	-	-	-	-
30	5 145	6 414	7 898	9 611	11 569	13 781	16 254	-	-
40	4 727	5 946	7 331	8 901	10 670	12 652	14 855	-	-
50	-	5 219	6 574	8 067	9 716	11 535	13 537	-	-
60	-	-	-	6 766	8 360	10 084	11 953	-	-
68	-	-	-	-	-	8 452	10 259	-	-

**Power input in W**

16	1 339	1 364	1 409	1 470	-	-	-	-	-
20	1 544	1 571	1 614	1 667	1 726	-	-	-	-
30	2 022	2 066	2 113	2 159	2 199	2 229	2 243	-	-
40	2 493	2 569	2 638	2 693	2 731	2 746	2 735	-	-
50	-	3 135	3 241	3 322	3 374	3 392	3 371	-	-
60	-	-	-	4 100	4 183	4 219	4 205	-	-
68	-	-	-	-	-	5 048	5 051	-	-

**Current consumption in A**

16	2.10	2.14	2.21	2.31	-	-	-	-	-
20	2.42	2.47	2.53	2.62	2.71	-	-	-	-
30	3.17	3.24	3.32	3.39	3.45	3.50	3.52	-	-
40	3.91	4.03	4.14	4.23	4.28	4.31	4.29	-	-
50	-	4.92	5.08	5.21	5.29	5.32	5.29	-	-
60	-	-	-	6.43	6.56	6.62	6.60	-	-
68	-	-	-	-	-	7.92	7.92	-	-

**Mass flow in kg/h**

16	124	149	178	211	-	-	-	-	-
20	120	144	173	206	244	-	-	-	-
30	113	138	167	200	237	279	325	-	-
40	108	134	164	197	234	275	320	-	-
50	-	127	158	192	230	271	316	-	-
60	-	-	-	180	220	262	308	-	-
68	-	-	-	-	-	247	294	-	-

**Coefficient of performance (C.O.P.)**

16	4.37	5.35	6.41	7.53	-	-	-	-	-
20	3.62	4.44	5.34	6.33	7.39	-	-	-	-
30	2.54	3.10	3.74	4.45	5.26	6.18	7.25	-	-
40	1.90	2.31	2.78	3.31	3.91	4.61	5.43	-	-
50	-	1.67	2.03	2.43	2.88	3.40	4.02	-	-
60	-	-	-	1.65	2.00	2.39	2.84	-	-
68	-	-	-	-	-	1.67	2.03	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 998	W
Power input	2 926	W
Current consumption	4.59	A
Mass flow	161	kg/h
C.O.P.	2.39	

**Pressure switch settings**

Maximum HP switch setting	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R22**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	

**Cooling capacity in W**

16	5 706	7 146	8 873	10 903	-	-	-	-	-
20	5 464	6 840	8 481	10 408	12 637	-	-	-	-
30	5 071	6 331	7 807	9 520	11 486	13 725	16 254	-	-
40	-	5 912	7 291	8 857	10 627	12 620	14 855	-	-
50	-	-	-	8 072	9 713	11 529	13 537	-	-
60	-	-	-	-	8 399	10 104	11 953	-	-
68	-	-	-	-	-	-	10 259	-	-

**Power input in W**

16	1 339	1 364	1 409	1 470	-	-	-	-	-
20	1 544	1 571	1 614	1 667	1 726	-	-	-	-
30	2 022	2 066	2 113	2 159	2 199	2 229	2 243	-	-
40	-	2 569	2 638	2 693	2 731	2 746	2 735	-	-
50	-	-	-	3 322	3 374	3 392	3 371	-	-
60	-	-	-	-	4 183	4 219	4 205	-	-
68	-	-	-	-	-	-	5 051	-	-

**Current consumption in A**

16	2.10	2.14	2.21	2.31	-	-	-	-	-
20	2.42	2.47	2.53	2.62	2.71	-	-	-	-
30	3.17	3.24	3.32	3.39	3.45	3.50	3.52	-	-
40	-	4.03	4.14	4.23	4.28	4.31	4.29	-	-
50	-	-	-	5.21	5.29	5.32	5.29	-	-
60	-	-	-	-	6.56	6.62	6.60	-	-
68	-	-	-	-	-	-	7.92	-	-

**Mass flow in kg/h**

16	109	134	163	197	-	-	-	-	-
20	105	130	158	193	233	-	-	-	-
30	100	124	153	186	226	272	325	-	-
40	-	120	150	184	223	268	320	-	-
50	-	-	-	179	219	265	316	-	-
60	-	-	-	-	209	256	308	-	-
68	-	-	-	-	-	-	294	-	-

**Coefficient of performance (C.O.P.)**

16	4.26	5.24	6.30	7.42	-	-	-	-	-
20	3.54	4.35	5.26	6.24	7.32	-	-	-	-
30	2.51	3.06	3.69	4.41	5.22	6.16	7.25	-	-
40	-	2.30	2.76	3.29	3.89	4.60	5.43	-	-
50	-	-	-	2.43	2.88	3.40	4.02	-	-
60	-	-	-	-	2.01	2.39	2.84	-	-
68	-	-	-	-	-	-	2.03	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 984	W
Power input	2 926	W
Current consumption	4.59	A
Mass flow	148	kg/h
C.O.P.	2.39	

**Pressure switch settings**

Maximum HP switch setting	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

Cooling capacity in W

22	3 420	4 316	5 377	6 623	8 071	-	-	-	-
30	3 136	3 983	4 988	6 167	7 538	9 120	-	-	-
40	2 776	3 552	4 473	5 558	6 824	8 290	9 971	-	-
50	-	3 107	3 934	4 913	6 062	7 398	8 940	-	-
60	-	-	3 374	4 236	5 255	6 451	7 841	-	-
70	-	-	-	3 531	4 409	5 453	6 679	-	-
73	-	-	-	3 315	4 149	5 144	6 318	-	-

Power input in W

22	987	999	1 012	1 027	1 045	-	-	-	-
30	1 174	1 189	1 203	1 217	1 232	1 250	-	-	-
40	1 443	1 465	1 484	1 501	1 518	1 535	1 553	-	-
50	-	1 791	1 821	1 846	1 868	1 889	1 909	-	-
60	-	-	2 220	2 258	2 291	2 320	2 346	-	-
70	-	-	-	2 746	2 794	2 836	2 873	-	-
73	-	-	-	2 908	2 962	3 009	3 050	-	-

Current consumption in A

22	2.81	2.82	2.84	2.85	2.86	-	-	-	-
30	3.01	3.04	3.06	3.09	3.11	3.14	-	-	-
40	3.39	3.43	3.47	3.50	3.54	3.58	3.62	-	-
50	-	4.10	4.14	4.18	4.22	4.27	4.31	-	-
60	-	-	5.22	5.26	5.31	5.35	5.40	-	-
70	-	-	-	6.89	6.93	6.97	7.01	-	-
73	-	-	-	7.50	7.54	7.58	7.62	-	-

Mass flow in kg/h

22	73	91	111	135	162	-	-	-	-
30	73	91	111	135	161	192	-	-	-
40	71	89	110	133	160	191	225	-	-
50	-	87	108	131	158	188	223	-	-
60	-	-	105	128	155	185	219	-	-
70	-	-	-	124	151	182	215	-	-
73	-	-	-	123	150	180	214	-	-

Coefficient of performance (C.O.P.)

22	3.47	4.32	5.31	6.45	7.72	-	-	-	-
30	2.67	3.35	4.15	5.07	6.12	7.29	-	-	-
40	1.92	2.42	3.01	3.70	4.50	5.40	6.42	-	-
50	-	1.73	2.16	2.66	3.24	3.92	4.68	-	-
60	-	-	1.52	1.88	2.29	2.78	3.34	-	-
70	-	-	-	1.29	1.58	1.92	2.32	-	-
73	-	-	-	1.14	1.40	1.71	2.07	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 331	W
Power input	1 621	W
Current consumption	3.72	A
Mass flow	88	kg/h
C.O.P.	2.05	

Pressure switch settings

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

Sound power data

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

Cooling capacity in W

22	3 474	4 366	5 419	6 652	8 084	-	-	-	-
30	-	4 057	5 052	6 214	7 564	9 120	-	-	-
40	-	-	4 566	5 630	6 865	8 290	9 925	-	-
50	-	-	4 054	5 008	6 118	7 398	8 869	-	-
60	-	-	-	4 354	5 326	6 451	-	-	-
70	-	-	-	-	4 495	5 453	-	-	-
73	-	-	-	-	4 238	5 144	-	-	-

Power input in W

22	987	999	1 012	1 027	1 045	-	-	-	-
30	-	1 189	1 203	1 217	1 232	1 250	-	-	-
40	-	-	1 484	1 501	1 518	1 535	1 553	-	-
50	-	-	1 821	1 846	1 868	1 889	1 909	-	-
60	-	-	-	2 258	2 291	2 320	-	-	-
70	-	-	-	-	2 794	2 836	-	-	-
73	-	-	-	-	2 962	3 009	-	-	-

Current consumption in A

22	2.81	2.82	2.84	2.85	2.86	-	-	-	-
30	-	3.04	3.06	3.09	3.11	3.14	-	-	-
40	-	-	3.47	3.50	3.54	3.58	3.62	-	-
50	-	-	4.14	4.18	4.22	4.27	4.31	-	-
60	-	-	-	5.26	5.31	5.35	-	-	-
70	-	-	-	-	6.93	6.97	-	-	-
73	-	-	-	-	7.54	7.58	-	-	-

Mass flow in kg/h

22	66	84	104	129	158	-	-	-	-
30	-	83	104	129	158	192	-	-	-
40	-	-	103	127	156	191	231	-	-
50	-	-	101	125	154	188	228	-	-
60	-	-	-	123	152	185	-	-	-
70	-	-	-	-	148	182	-	-	-
73	-	-	-	-	147	180	-	-	-

Coefficient of performance (C.O.P.)

22	3.52	4.37	5.36	6.48	7.74	-	-	-	-
30	-	3.41	4.20	5.11	6.14	7.29	-	-	-
40	-	-	3.08	3.75	4.52	5.40	6.39	-	-
50	-	-	2.23	2.71	3.27	3.92	4.65	-	-
60	-	-	-	1.93	2.32	2.78	-	-	-
70	-	-	-	-	1.61	1.92	-	-	-
73	-	-	-	-	1.43	1.71	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

Sound power data

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

22	4 232	5 328	6 640	8 170	9 917	-	-	-	-
30	3 861	4 915	6 175	7 642	9 317	11 200	-	-	-
40	3 388	4 379	5 563	6 942	8 515	10 283	12 248	-	-
50	-	3 806	4 903	6 181	7 641	9 283	11 108	-	-
60	-	-	4 177	5 343	6 678	8 182	9 857	-	-
70	-	-	-	4 411	5 610	6 965	8 477	-	-
73	-	-	-	4 111	5 266	6 574	8 035	-	-

**Power input in W**

22	1 213	1 220	1 238	1 270	1 317	-	-	-	-
30	1 414	1 435	1 459	1 488	1 524	1 568	-	-	-
40	1 694	1 743	1 784	1 820	1 852	1 882	1 913	-	-
50	-	2 093	2 164	2 218	2 258	2 286	2 304	-	-
60	-	-	2 599	2 683	2 743	2 780	2 797	-	-
70	-	-	-	3 215	3 307	3 365	3 392	-	-
73	-	-	-	3 388	3 491	3 558	3 590	-	-

**Current consumption in A**

22	2.77	2.78	2.80	2.81	2.83	-	-	-	-
30	2.95	2.98	3.01	3.03	3.06	3.09	-	-	-
40	3.34	3.37	3.40	3.44	3.47	3.50	3.54	-	-
50	-	4.03	4.06	4.10	4.13	4.16	4.20	-	-
60	-	-	5.10	5.13	5.15	5.18	5.21	-	-
70	-	-	-	6.64	6.65	6.66	6.68	-	-
73	-	-	-	7.20	7.21	7.22	7.22	-	-

**Mass flow in kg/h**

22	91	110	136	168	203	-	-	-	-
30	92	111	137	168	203	240	-	-	-
40	91	110	136	168	203	239	275	-	-
50	-	106	133	165	200	237	273	-	-
60	-	-	128	161	197	234	271	-	-
70	-	-	-	155	193	231	269	-	-
73	-	-	-	154	191	230	268	-	-

**Coefficient of performance (C.O.P.)**

22	3.49	4.37	5.36	6.43	7.53	-	-	-	-
30	2.73	3.43	4.23	5.14	6.11	7.14	-	-	-
40	2.00	2.51	3.12	3.81	4.60	5.46	6.40	-	-
50	-	1.82	2.27	2.79	3.38	4.06	4.82	-	-
60	-	-	1.61	1.99	2.43	2.94	3.52	-	-
70	-	-	-	1.37	1.70	2.07	2.50	-	-
73	-	-	-	1.21	1.51	1.85	2.24	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	4 098	W
Power input	1 913	W
Current consumption	3.66	A
Mass flow	108	kg/h
C.O.P.	2.14	

**Pressure switch settings**

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

22	4 300	5 390	6 691	8 205	9 934	-	-	-	-
30	-	5 006	6 254	7 701	9 348	11 200	-	-	-
40	-	-	5 678	7 031	8 565	10 283	12 191	-	-
50	-	-	5 052	6 301	7 711	9 283	11 020	-	-
60	-	-	-	5 492	6 768	8 182	-	-	-
70	-	-	-	-	5 718	6 965	-	-	-
73	-	-	-	-	5 380	6 574	-	-	-

**Power input in W**

22	1 213	1 220	1 238	1 270	1 317	-	-	-	-
30	-	1 435	1 459	1 488	1 524	1 568	-	-	-
40	-	-	1 784	1 820	1 852	1 882	1 913	-	-
50	-	-	2 164	2 218	2 258	2 286	2 304	-	-
60	-	-	-	2 683	2 743	2 780	-	-	-
70	-	-	-	-	3 307	3 365	-	-	-
73	-	-	-	-	3 491	3 558	-	-	-

**Current consumption in A**

22	2.77	2.78	2.80	2.81	2.83	-	-	-	-
30	-	2.98	3.01	3.03	3.06	3.09	-	-	-
40	-	-	3.40	3.44	3.47	3.50	3.54	-	-
50	-	-	4.06	4.10	4.13	4.16	4.20	-	-
60	-	-	-	5.13	5.15	5.18	-	-	-
70	-	-	-	-	6.65	6.66	-	-	-
73	-	-	-	-	7.21	7.22	-	-	-

**Mass flow in kg/h**

22	82	101	127	160	198	-	-	-	-
30	-	102	128	161	199	240	-	-	-
40	-	-	127	160	198	239	282	-	-
50	-	-	125	158	196	237	281	-	-
60	-	-	-	154	193	234	-	-	-
70	-	-	-	-	188	231	-	-	-
73	-	-	-	-	187	230	-	-	-

**Coefficient of performance (C.O.P.)**

22	3.55	4.42	5.40	6.46	7.54	-	-	-	-
30	-	3.49	4.29	5.18	6.14	7.14	-	-	-
40	-	-	3.18	3.86	4.63	5.46	6.37	-	-
50	-	-	2.33	2.84	3.41	4.06	4.78	-	-
60	-	-	-	2.05	2.47	2.94	-	-	-
70	-	-	-	-	1.73	2.07	-	-	-
73	-	-	-	-	1.54	1.85	-	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

Tolerance according EN12900



**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 034	4 984	6 144	7 538	9 185	-	-	-	-
20	3 575	4 443	5 493	6 744	8 218	9 939	11 926	-	-
30	3 142	3 925	4 858	5 962	7 260	8 772	10 520	12 527	14 813
40	-	3 411	4 223	5 176	6 291	7 591	9 095	10 828	12 810
50	-	-	3 570	4 367	5 295	6 377	7 634	9 087	10 759
60	-	-	-	-	4 254	5 113	6 117	7 287	8 645

**Power input in W**

10	1 231	1 249	1 265	1 279	1 292	-	-	-	-
20	1 559	1 580	1 598	1 614	1 627	1 639	1 650	-	-
30	1 981	2 002	2 020	2 034	2 046	2 055	2 062	2 067	2 071
40	-	2 548	2 563	2 573	2 580	2 584	2 585	2 583	2 579
50	-	-	3 262	3 266	3 265	3 261	3 253	3 242	3 228
60	-	-	-	-	4 135	4 120	4 100	4 077	4 050

**Current consumption in A**

10	3.84	3.73	3.62	3.52	3.43	-	-	-	-
20	3.87	3.82	3.79	3.75	3.73	3.71	3.70	-	-
30	4.13	4.13	4.13	4.14	4.15	4.17	4.19	4.23	4.28
40	-	4.75	4.75	4.77	4.78	4.80	4.83	4.87	4.93
50	-	-	5.74	5.73	5.72	5.71	5.72	5.73	5.75
60	-	-	-	-	7.05	6.99	6.93	6.88	6.84

**Mass flow in kg/h**

10	81	101	125	154	189	-	-	-	-
20	78	98	122	151	184	225	273	-	-
30	76	96	119	147	180	220	267	323	389
40	-	93	116	143	176	215	261	316	381
50	-	-	113	140	171	210	255	309	373
60	-	-	-	-	167	205	250	303	365

**Coefficient of performance (C.O.P.)**

10	3.28	3.99	4.86	5.89	7.11	-	-	-	-
20	2.29	2.81	3.44	4.18	5.05	6.06	7.23	-	-
30	1.59	1.96	2.41	2.93	3.55	4.27	5.10	6.06	7.15
40	-	1.34	1.65	2.01	2.44	2.94	3.52	4.19	4.97
50	-	-	1.09	1.34	1.62	1.96	2.35	2.80	3.33
60	-	-	-	-	1.03	1.24	1.49	1.79	2.13

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 798	W
Power input	2 902	W
Current consumption	5.21	A
Mass flow	173	kg/h
C.O.P.	2.00	


**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 876	4 823	5 987	7 392	9 062	-	-	-	-
20	3 361	4 220	5 266	6 525	8 020	9 776	11 813	-	-
30	2 873	3 638	4 562	5 670	6 987	8 537	10 346	12 433	14 813
40	2 394	3 060	3 857	4 809	5 943	7 284	8 860	10 694	12 810
50	-	-	3 132	3 924	4 870	5 997	7 335	8 913	10 759
60	-	-	-	-	3 743	4 652	5 748	7 066	8 645

**Power input in W**

10	1 231	1 249	1 265	1 279	1 292	-	-	-	-
20	1 559	1 580	1 598	1 614	1 627	1 639	1 650	-	-
30	1 981	2 002	2 020	2 034	2 046	2 055	2 062	2 067	2 071
40	2 530	2 548	2 563	2 573	2 580	2 584	2 585	2 583	2 579
50	-	-	3 262	3 266	3 265	3 261	3 253	3 242	3 228
60	-	-	-	-	4 135	4 120	4 100	4 077	4 050

**Current consumption in A**

10	3.84	3.73	3.62	3.52	3.43	-	-	-	-
20	3.87	3.82	3.79	3.75	3.73	3.71	3.70	-	-
30	4.13	4.13	4.13	4.14	4.15	4.17	4.19	4.23	4.28
40	4.74	4.75	4.75	4.77	4.78	4.80	4.83	4.87	4.93
50	-	-	5.74	5.73	5.72	5.71	5.72	5.73	5.75
60	-	-	-	-	7.05	6.99	6.93	6.88	6.84

**Mass flow in kg/h**

10	96	118	144	174	209	-	-	-	-
20	93	115	140	170	204	243	289	-	-
30	91	112	137	165	199	238	282	333	389
40	88	109	133	161	194	232	276	326	381
50	-	-	130	157	189	227	270	319	373
60	-	-	-	-	185	221	264	312	365

**Coefficient of performance (C.O.P.)**

10	3.15	3.86	4.73	5.78	7.02	-	-	-	-
20	2.16	2.67	3.29	4.04	4.93	5.96	7.16	-	-
30	1.45	1.82	2.26	2.79	3.42	4.15	5.02	6.01	7.15
40	0.95	1.20	1.51	1.87	2.30	2.82	3.43	4.14	4.97
50	-	-	0.96	1.20	1.49	1.84	2.25	2.75	3.33
60	-	-	-	-	0.91	1.13	1.40	1.73	2.13

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 411	W
Power input	2 902	W
Current consumption	5.21	A
Mass flow	192	kg/h
C.O.P.	1.86	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 972	6 174	7 624	9 334	11 318	-	-	-	-
20	4 515	5 599	6 903	8 437	10 216	12 251	14 555	-	-
30	4 023	4 990	6 146	7 503	9 076	10 877	12 917	15 210	17 767
40	-	4 318	5 325	6 506	7 872	9 437	11 213	13 213	15 449
50	-	-	4 415	5 417	6 576	7 905	9 416	11 123	13 038
60	-	-	-	-	5 161	6 253	7 499	8 913	10 507

**Power input in W**

10	1 443	1 531	1 572	1 581	1 572	-	-	-	-
20	1 738	1 866	1 939	1 972	1 979	1 974	1 971	-	-
30	2 132	2 296	2 399	2 453	2 473	2 474	2 470	2 474	2 501
40	-	2 851	2 980	3 052	3 084	3 088	3 078	3 070	3 076
50	-	-	3 708	3 797	3 836	3 840	3 824	3 800	3 783
60	-	-	-	-	4 759	4 760	4 733	4 691	4 649

**Current consumption in A**

10	2.26	2.40	2.47	2.48	2.47	-	-	-	-
20	2.73	2.93	3.04	3.09	3.10	3.10	3.09	-	-
30	3.35	3.60	3.76	3.85	3.88	3.88	3.87	3.88	3.92
40	-	4.47	4.67	4.79	4.84	4.84	4.83	4.82	4.83
50	-	-	5.82	5.96	6.02	6.03	6.00	5.96	5.94
60	-	-	-	-	7.47	7.47	7.43	7.36	7.29

**Mass flow in kg/h**

10	90	119	152	190	233	-	-	-	-
20	94	122	153	189	230	279	335	-	-
30	96	121	151	186	226	274	329	394	467
40	-	118	147	181	221	268	323	387	461
50	-	-	140	174	213	260	316	380	455
60	-	-	-	-	204	251	307	372	448

**Coefficient of performance (C.O.P.)**

10	3.45	4.03	4.85	5.90	7.20	-	-	-	-
20	2.60	3.00	3.56	4.28	5.16	6.21	7.38	-	-
30	1.89	2.17	2.56	3.06	3.67	4.40	5.23	6.15	7.11
40	-	1.51	1.79	2.13	2.55	3.06	3.64	4.30	5.02
50	-	-	1.19	1.43	1.71	2.06	2.46	2.93	3.45
60	-	-	-	-	1.08	1.31	1.58	1.90	2.26

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	7 237	W
Power input	3 440	W
Current consumption	5.40	A
Mass flow	217	kg/h
C.O.P.	2.10	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 778	5 975	7 429	9 155	11 167	-	-	-	-
20	4 246	5 318	6 618	8 163	9 969	12 050	14 417	-	-
30	3 679	4 625	5 771	7 135	8 735	10 586	12 703	15 096	17 767
40	3 057	3 874	4 864	6 045	7 436	9 056	10 922	13 050	15 449
50	-	-	3 873	4 868	6 048	7 434	9 047	10 909	13 038
60	-	-	-	-	4 542	5 689	7 047	8 643	10 507

**Power input in W**

10	1 443	1 531	1 572	1 581	1 572	-	-	-	-
20	1 738	1 866	1 939	1 972	1 979	1 974	1 971	-	-
30	2 132	2 296	2 399	2 453	2 473	2 474	2 470	2 474	2 501
40	2 653	2 851	2 980	3 052	3 084	3 088	3 078	3 070	3 076
50	-	-	3 708	3 797	3 836	3 840	3 824	3 800	3 783
60	-	-	-	-	4 759	4 760	4 733	4 691	4 649

**Current consumption in A**

10	2.26	2.40	2.47	2.48	2.47	-	-	-	-
20	2.73	2.93	3.04	3.09	3.10	3.10	3.09	-	-
30	3.35	3.60	3.76	3.85	3.88	3.88	3.87	3.88	3.92
40	4.16	4.47	4.67	4.79	4.84	4.84	4.83	4.82	4.83
50	-	-	5.82	5.96	6.02	6.03	6.00	5.96	5.94
60	-	-	-	-	7.47	7.47	7.43	7.36	7.29

**Mass flow in kg/h**

10	107	140	175	214	257	-	-	-	-
20	112	142	175	213	254	301	354	-	-
30	114	142	173	209	250	296	348	405	467
40	112	138	169	204	244	290	341	399	461
50	-	-	161	196	236	282	333	391	455
60	-	-	-	-	225	272	324	383	448

**Coefficient of performance (C.O.P.)**

10	3.31	3.90	4.72	5.79	7.10	-	-	-	-
20	2.44	2.85	3.41	4.14	5.04	6.11	7.31	-	-
30	1.73	2.01	2.41	2.91	3.53	4.28	5.14	6.10	7.11
40	1.15	1.36	1.63	1.98	2.41	2.93	3.55	4.25	5.02
50	-	-	1.04	1.28	1.58	1.94	2.37	2.87	3.45
60	-	-	-	-	0.95	1.20	1.49	1.84	2.26

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 755	W
Power input	3 440	W
Current consumption	5.40	A
Mass flow	240	kg/h
C.O.P.	1.96	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions

R407A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	3 950	4 989	6 236	7 715	-	-	-	-	-
20	3 510	4 492	5 663	7 049	8 676	10 570	-	-	-
30	3 036	3 949	5 032	6 312	7 815	9 567	11 593	13 921	-
40	2 535	3 366	4 350	5 512	6 879	8 476	10 330	12 467	-
45	-	3 063	3 992	5 091	6 385	7 900	9 664	11 701	-
50	-	-	3 624	4 656	5 875	7 306	8 975	10 909	-
55	-	-	-	4 209	5 349	6 693	8 265	10 093	-
60	-	-	-	-	4 810	6 062	7 535	9 254	-

Power input in W

10	1 283	1 317	1 346	1 369	-	-	-	-	-
20	1 494	1 533	1 568	1 598	1 621	1 637	-	-	-
30	1 800	1 841	1 880	1 916	1 946	1 970	1 986	1 993	-
40	2 249	2 292	2 333	2 372	2 408	2 438	2 462	2 479	-
45	-	2 586	2 628	2 668	2 705	2 738	2 766	2 787	-
50	-	-	2 976	3 018	3 056	3 091	3 122	3 146	-
55	-	-	-	3 427	3 466	3 503	3 536	3 564	-
60	-	-	-	-	3 942	3 980	4 015	4 045	-

Current consumption in A

10	3.27	3.26	3.25	3.23	-	-	-	-	-
20	3.54	3.56	3.57	3.58	3.59	3.61	-	-	-
30	3.82	3.86	3.89	3.92	3.95	3.98	4.02	4.06	-
40	4.28	4.33	4.38	4.43	4.48	4.52	4.57	4.62	-
45	-	4.70	4.75	4.81	4.86	4.91	4.96	5.01	-
50	-	-	5.23	5.29	5.34	5.40	5.45	5.51	-
55	-	-	-	5.91	5.96	6.02	6.08	6.13	-
60	-	-	-	-	6.74	6.79	6.85	6.91	-

Mass flow in kg/h

10	77	96	118	144	-	-	-	-	-
20	74	94	116	142	172	207	-	-	-
30	71	90	113	139	170	204	244	289	-
40	66	86	109	135	165	200	240	285	-
45	-	83	106	132	162	197	237	282	-
50	-	-	102	129	159	194	234	279	-
55	-	-	-	125	156	190	230	276	-
60	-	-	-	-	151	186	226	271	-

Coefficient of performance (C.O.P.)

10	3.08	3.79	4.63	5.64	-	-	-	-	-
20	2.35	2.93	3.61	4.41	5.35	6.46	-	-	-
30	1.69	2.14	2.68	3.29	4.02	4.86	5.84	6.98	-
40	1.13	1.47	1.86	2.32	2.86	3.48	4.20	5.03	-
45	-	1.18	1.52	1.91	2.36	2.88	3.49	4.20	-
50	-	-	1.22	1.54	1.92	2.36	2.87	3.47	-
55	-	-	-	1.23	1.54	1.91	2.34	2.83	-
60	-	-	-	-	1.22	1.52	1.88	2.29	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 091	W
Power input	2 668	W
Current consumption	4.81	A
Mass flow	132	kg/h
C.O.P.	1.91	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K, Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 50 Hz, ARI rating conditions**
**R407A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 195	5 294	6 610	8 171	-	-	-	-	-
20	3 755	4 801	6 045	7 517	9 242	11 249	-	-	-
30	3 279	4 258	5 419	6 789	8 395	10 265	12 425	14 904	-
40	2 772	3 674	4 740	5 996	7 471	9 193	11 188	13 484	-
45	-	3 369	4 382	5 578	6 983	8 627	10 535	12 737	-
50	-	-	4 014	5 146	6 480	8 042	9 862	11 967	-
55	-	-	-	4 703	5 962	7 442	9 172	11 178	-
60	-	-	-	-	-	6 830	8 467	10 375	-

**Power input in W**

10	1 283	1 317	1 346	1 369	-	-	-	-	-
20	1 494	1 533	1 568	1 598	1 621	1 637	-	-	-
30	1 800	1 841	1 880	1 916	1 946	1 970	1 986	1 993	-
40	2 249	2 292	2 333	2 372	2 408	2 438	2 462	2 479	-
45	-	2 586	2 628	2 668	2 705	2 738	2 766	2 787	-
50	-	-	2 976	3 018	3 056	3 091	3 122	3 146	-
55	-	-	-	3 427	3 466	3 503	3 536	3 564	-
60	-	-	-	-	-	3 980	4 015	4 045	-

**Current consumption in A**

10	3.27	3.26	3.25	3.23	-	-	-	-	-
20	3.54	3.56	3.57	3.58	3.59	3.61	-	-	-
30	3.82	3.86	3.89	3.92	3.95	3.98	4.02	4.06	-
40	4.28	4.33	4.38	4.43	4.48	4.52	4.57	4.62	-
45	-	4.70	4.75	4.81	4.86	4.91	4.96	5.01	-
50	-	-	5.23	5.29	5.34	5.40	5.45	5.51	-
55	-	-	-	5.91	5.96	6.02	6.08	6.13	-
60	-	-	-	-	-	6.79	6.85	6.91	-

**Mass flow in kg/h**

10	77	96	118	143	-	-	-	-	-
20	74	93	116	142	171	206	-	-	-
30	71	90	113	139	169	203	243	287	-
40	66	85	108	134	164	199	239	283	-
45	-	82	105	131	162	196	236	281	-
50	-	-	102	128	158	193	233	278	-
55	-	-	-	124	155	189	229	274	-
60	-	-	-	-	-	185	225	270	-

**Coefficient of performance (C.O.P.)**

10	3.27	4.02	4.91	5.97	-	-	-	-	-
20	2.51	3.13	3.85	4.70	5.70	6.87	-	-	-
30	1.82	2.31	2.88	3.54	4.31	5.21	6.26	7.48	-
40	1.23	1.60	2.03	2.53	3.10	3.77	4.54	5.44	-
45	-	1.30	1.67	2.09	2.58	3.15	3.81	4.57	-
50	-	-	1.35	1.71	2.12	2.60	3.16	3.80	-
55	-	-	-	1.37	1.72	2.12	2.59	3.14	-
60	-	-	-	-	-	1.72	2.11	2.56	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 578	W
Power input	2 668	W
Current consumption	4.81	A
Mass flow	131	kg/h
C.O.P.	2.09	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 60 Hz, EN 12900 rating conditions**
**R407A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 849	6 118	7 641	9 448	-	-	-	-	-
20	4 311	5 506	6 932	8 620	10 602	12 908	-	-	-
30	3 735	4 843	6 159	7 714	9 539	11 667	14 128	16 954	-
40	3 131	4 137	5 329	6 736	8 392	10 327	12 572	15 160	-
45	-	3 771	4 895	6 224	7 789	9 622	11 755	14 219	-
50	-	-	4 450	5 697	7 168	8 897	10 913	13 248	-
55	-	-	-	5 156	6 531	8 150	10 047	12 251	-
60	-	-	-	-	5 877	7 385	9 158	11 227	-

**Power input in W**

10	1 517	1 550	1 580	1 605	-	-	-	-	-
20	1 780	1 810	1 845	1 880	1 911	1 933	-	-	-
30	2 157	2 178	2 209	2 246	2 285	2 322	2 353	2 372	-
40	2 726	2 729	2 748	2 779	2 819	2 862	2 904	2 942	-
45	-	3 097	3 107	3 132	3 169	3 212	3 258	3 301	-
50	-	-	3 538	3 556	3 587	3 628	3 675	3 723	-
55	-	-	-	4 059	4 083	4 121	4 166	4 216	-
60	-	-	-	-	4 667	4 698	4 741	4 791	-

**Current consumption in A**

10	3.42	3.42	3.41	3.39	-	-	-	-	-
20	3.60	3.62	3.64	3.66	3.67	3.69	-	-	-
30	3.85	3.90	3.94	3.97	4.01	4.04	4.08	4.12	-
40	4.33	4.39	4.45	4.49	4.54	4.58	4.63	4.67	-
45	-	4.77	4.83	4.88	4.93	4.97	5.01	5.06	-
50	-	-	5.32	5.37	5.42	5.46	5.50	5.55	-
55	-	-	-	5.99	6.04	6.08	6.12	6.16	-
60	-	-	-	-	6.80	6.83	6.87	6.90	-

**Mass flow in kg/h**

10	95	118	145	176	-	-	-	-	-
20	91	115	142	174	211	253	-	-	-
30	87	111	138	170	207	249	297	352	-
40	82	105	133	165	202	244	292	347	-
45	-	102	130	161	198	240	289	343	-
50	-	-	126	158	194	236	285	339	-
55	-	-	-	153	190	232	280	335	-
60	-	-	-	-	185	227	275	329	-

**Coefficient of performance (C.O.P.)**

10	3.20	3.95	4.84	5.89	-	-	-	-	-
20	2.42	3.04	3.76	4.59	5.55	6.68	-	-	-
30	1.73	2.22	2.79	3.43	4.17	5.02	6.01	7.15	-
40	1.15	1.52	1.94	2.42	2.98	3.61	4.33	5.15	-
45	-	1.22	1.58	1.99	2.46	3.00	3.61	4.31	-
50	-	-	1.26	1.60	2.00	2.45	2.97	3.56	-
55	-	-	-	1.27	1.60	1.98	2.41	2.91	-
60	-	-	-	-	1.26	1.57	1.93	2.34	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 224	W
Power input	3 132	W
Current consumption	4.88	A
Mass flow	161	kg/h
C.O.P.	1.99	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 60 Hz, ARI rating conditions**
**R407A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	5 149	6 491	8 099	10 006	-	-	-	-	-
20	4 612	5 884	7 400	9 192	11 294	13 737	-	-	-
30	4 034	5 223	6 633	8 297	10 247	12 518	15 142	18 151	-
40	3 423	4 516	5 806	7 328	9 115	11 200	13 616	16 397	-
45	-	4 147	5 373	6 819	8 519	10 507	12 815	15 478	-
50	-	-	4 929	6 296	7 907	9 794	11 992	14 533	-
55	-	-	-	5 760	7 279	9 063	11 149	13 568	-
60	-	-	-	-	-	8 320	10 291	12 587	-

**Power input in W**

10	1 517	1 550	1 580	1 605	-	-	-	-	-
20	1 780	1 810	1 845	1 880	1 911	1 933	-	-	-
30	2 157	2 178	2 209	2 246	2 285	2 322	2 353	2 372	-
40	2 726	2 729	2 748	2 779	2 819	2 862	2 904	2 942	-
45	-	3 097	3 107	3 132	3 169	3 212	3 258	3 301	-
50	-	-	3 538	3 556	3 587	3 628	3 675	3 723	-
55	-	-	-	4 059	4 083	4 121	4 166	4 216	-
60	-	-	-	-	-	4 698	4 741	4 791	-

**Current consumption in A**

10	3.42	3.42	3.41	3.39	-	-	-	-	-
20	3.60	3.62	3.64	3.66	3.67	3.69	-	-	-
30	3.85	3.90	3.94	3.97	4.01	4.04	4.08	4.12	-
40	4.33	4.39	4.45	4.49	4.54	4.58	4.63	4.67	-
45	-	4.77	4.83	4.88	4.93	4.97	5.01	5.06	-
50	-	-	5.32	5.37	5.42	5.46	5.50	5.55	-
55	-	-	-	5.99	6.04	6.08	6.12	6.16	-
60	-	-	-	-	-	6.83	6.87	6.90	-

**Mass flow in kg/h**

10	94	117	144	175	-	-	-	-	-
20	91	114	142	173	210	251	-	-	-
30	87	110	138	169	206	248	296	350	-
40	81	105	132	164	201	242	290	345	-
45	-	101	129	161	197	239	287	341	-
50	-	-	125	157	193	235	283	337	-
55	-	-	-	152	189	231	278	332	-
60	-	-	-	-	-	226	273	327	-

**Coefficient of performance (C.O.P.)**

10	3.39	4.19	5.13	6.24	-	-	-	-	-
20	2.59	3.25	4.01	4.89	5.91	7.10	-	-	-
30	1.87	2.40	3.00	3.69	4.48	5.39	6.44	7.65	-
40	1.26	1.65	2.11	2.64	3.23	3.91	4.69	5.57	-
45	-	1.34	1.73	2.18	2.69	3.27	3.93	4.69	-
50	-	-	1.39	1.77	2.20	2.70	3.26	3.90	-
55	-	-	-	1.42	1.78	2.20	2.68	3.22	-
60	-	-	-	-	-	1.77	2.17	2.63	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 819	W
Power input	3 132	W
Current consumption	4.88	A
Mass flow	161	kg/h
C.O.P.	2.18	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

30	-	2 969	3 814	4 838	6 063	7 510	9 200	11 156	13 398
35	-	2 778	3 581	4 551	5 711	7 081	8 683	10 538	12 669
40	-	2 571	3 332	4 250	5 345	6 639	8 153	9 909	11 929
45	-	-	3 065	3 931	4 962	6 181	7 609	9 266	11 175
50	-	-	-	3 592	4 561	5 705	7 046	8 606	10 405
55	-	-	-	-	4 137	5 207	6 463	7 925	9 614
60	-	-	-	-	-	4 685	5 855	7 219	8 798
65	-	-	-	-	-	-	5 219	6 485	7 954

**Power input in W**

30	-	1 876	1 864	1 857	1 850	1 838	1 816	1 779	1 722
35	-	2 130	2 111	2 099	2 090	2 077	2 055	2 021	1 967
40	-	2 413	2 388	2 373	2 360	2 347	2 327	2 295	2 246
45	-	-	2 700	2 681	2 667	2 654	2 635	2 607	2 564
50	-	-	-	3 029	3 014	3 002	2 986	2 962	2 924
55	-	-	-	-	3 407	3 395	3 383	3 363	3 333
60	-	-	-	-	-	3 840	3 831	3 817	3 793
65	-	-	-	-	-	-	4 334	4 327	4 311

**Current consumption in A**

30	-	3.09	3.05	3.11	3.23	3.38	3.52	3.59	3.58
35	-	3.90	3.77	3.76	3.82	3.91	4.00	4.04	3.99
40	-	4.47	4.27	4.20	4.21	4.26	4.32	4.33	4.26
45	-	-	4.64	4.52	4.50	4.52	4.56	4.56	4.49
50	-	-	-	4.83	4.79	4.80	4.83	4.84	4.79
55	-	-	-	-	5.18	5.19	5.24	5.26	5.24
60	-	-	-	-	-	5.80	5.87	5.93	5.95
65	-	-	-	-	-	-	6.84	6.95	7.02

**Mass flow in kg/h**

30	-	66	84	105	129	157	189	226	268
35	-	66	83	103	127	155	187	224	265
40	-	64	81	102	125	153	185	221	261
45	-	-	79	99	123	150	182	217	258
50	-	-	-	96	120	147	178	213	254
55	-	-	-	-	116	143	174	209	249
60	-	-	-	-	-	138	169	204	243
65	-	-	-	-	-	-	163	198	237

**Coefficient of performance (C.O.P.)**

30	-	1.58	2.05	2.61	3.28	4.09	5.07	6.27	7.78
35	-	1.30	1.70	2.17	2.73	3.41	4.22	5.22	6.44
40	-	1.07	1.40	1.79	2.26	2.83	3.50	4.32	5.31
45	-	-	1.14	1.47	1.86	2.33	2.89	3.55	4.36
50	-	-	-	1.19	1.51	1.90	2.36	2.91	3.56
55	-	-	-	-	1.21	1.53	1.91	2.36	2.88
60	-	-	-	-	-	1.22	1.53	1.89	2.32
65	-	-	-	-	-	-	1.20	1.50	1.85

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	4 962	W
Power input	2 667	W
Current consumption	4.50	A
Mass flow	123	kg/h
C.O.P.	1.86	

**Pressure switch settings**

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 50 Hz,

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Power input in W

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = °C, tc = °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = °C , Subcooling = K

Tolerance according EN12900

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**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

30	-	3 594	4 618	5 858	7 340	9 092	11 139	13 508	16 226
35	-	3 360	4 332	5 506	6 909	8 567	10 505	12 750	15 329
40	-	3 104	4 026	5 137	6 461	8 025	9 855	11 978	14 420
45	-	-	3 698	4 745	5 992	7 464	9 188	11 189	13 494
50	-	-	-	4 330	5 500	6 881	8 499	10 379	12 549
55	-	-	-	-	4 983	6 273	7 786	9 547	11 581
60	-	-	-	-	-	5 638	7 046	8 687	10 586
65	-	-	-	-	-	-	6 275	7 795	9 559

**Power input in W**

30	-	2 209	2 194	2 186	2 178	2 164	2 138	2 095	2 027
35	-	2 509	2 487	2 473	2 461	2 446	2 421	2 380	2 317
40	-	2 844	2 815	2 796	2 782	2 766	2 742	2 705	2 647
45	-	-	3 185	3 162	3 146	3 130	3 108	3 075	3 024
50	-	-	-	3 575	3 558	3 543	3 524	3 495	3 451
55	-	-	-	-	4 024	4 010	3 995	3 972	3 936
60	-	-	-	-	-	4 538	4 527	4 511	4 483
65	-	-	-	-	-	-	5 126	5 117	5 099

**Current consumption in A**

30	-	3.31	3.26	3.33	3.46	3.62	3.77	3.85	3.83
35	-	4.18	4.04	4.03	4.09	4.19	4.29	4.33	4.28
40	-	4.78	4.58	4.50	4.51	4.57	4.62	4.64	4.57
45	-	-	4.97	4.85	4.82	4.85	4.88	4.89	4.82
50	-	-	-	5.18	5.13	5.14	5.18	5.19	5.13
55	-	-	-	-	5.55	5.57	5.61	5.64	5.61
60	-	-	-	-	-	6.22	6.29	6.36	6.37
65	-	-	-	-	-	-	7.33	7.45	7.52

**Mass flow in kg/h**

30	-	80	102	127	156	190	229	274	325
35	-	79	100	125	154	188	226	271	320
40	-	77	98	123	152	185	223	267	316
45	-	-	96	120	148	181	219	262	311
50	-	-	-	116	145	177	215	257	306
55	-	-	-	-	140	172	209	252	300
60	-	-	-	-	-	166	203	245	293
65	-	-	-	-	-	-	196	238	285

**Coefficient of performance (C.O.P.)**

30	-	1.63	2.10	2.68	3.37	4.20	5.21	6.45	8.00
35	-	1.34	1.74	2.23	2.81	3.50	4.34	5.36	6.62
40	-	1.09	1.43	1.84	2.32	2.90	3.59	4.43	5.45
45	-	-	1.16	1.50	1.90	2.38	2.96	3.64	4.46
50	-	-	-	1.21	1.55	1.94	2.41	2.97	3.64
55	-	-	-	-	1.24	1.56	1.95	2.40	2.94
60	-	-	-	-	-	1.24	1.56	1.93	2.36
65	-	-	-	-	-	-	1.22	1.52	1.87

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 992	W
Power input	3 146	W
Current consumption	4.82	A
Mass flow	148	kg/h
C.O.P.	1.90	

**Pressure switch settings**

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 60 Hz,

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Power input in W

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = °C, tc = °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = °C , Subcooling = K

Tolerance according EN12900

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**Performance data at 50 Hz, EN 12900 rating conditions**
**R407F**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-23	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 568	5 242	6 535	8 061	-	-	-	-	-
20	4 105	4 745	5 966	7 403	9 083	11 031	-	-	-
30	3 599	4 197	5 334	6 670	8 230	10 042	12 132	14 526	-
40	3 057	3 605	4 645	5 866	7 295	8 959	10 883	13 093	-
45	-	-	4 280	5 440	6 799	8 383	10 220	12 334	-
50	-	-	-	4 999	6 284	7 787	9 532	11 546	-
55	-	-	-	-	5 752	7 169	8 820	10 732	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	1 375	1 387	1 411	1 448	-	-	-	-	-
20	1 596	1 610	1 631	1 655	1 691	1 747	-	-	-
30	1 923	1 945	1 973	1 994	2 018	2 052	2 105	2 187	-
40	2 386	2 424	2 468	2 497	2 519	2 541	2 574	2 625	-
45	-	-	2 783	2 820	2 844	2 865	2 891	2 931	-
50	-	-	-	3 195	3 225	3 247	3 269	3 300	-
55	-	-	-	-	3 665	3 691	3 711	3 736	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	3.43	3.42	3.40	3.37	-	-	-	-	-
20	3.73	3.74	3.74	3.75	3.75	3.75	-	-	-
30	4.04	4.06	4.09	4.11	4.14	4.16	4.19	4.22	-
40	4.54	4.57	4.62	4.66	4.70	4.74	4.78	4.82	-
45	-	-	5.01	5.06	5.11	5.15	5.20	5.25	-
50	-	-	-	5.58	5.63	5.67	5.72	5.78	-
55	-	-	-	-	6.29	6.34	6.39	6.44	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	80	91	112	136	-	-	-	-	-
20	77	89	110	135	163	196	-	-	-
30	74	85	107	132	160	193	231	273	-
40	69	81	102	127	156	189	227	269	-
45	-	-	100	125	153	186	224	266	-
50	-	-	-	121	150	183	220	263	-
55	-	-	-	-	146	179	217	259	-
60	-	-	-	-	-	-	-	-	-

**Coefficient of performance (C.O.P.)**

10	3.32	3.78	4.63	5.57	-	-	-	-	-
20	2.57	2.95	3.66	4.47	5.37	6.32	-	-	-
30	1.87	2.16	2.70	3.34	4.08	4.89	5.76	6.64	-
40	1.28	1.49	1.88	2.35	2.90	3.53	4.23	4.99	-
45	-	-	1.54	1.93	2.39	2.93	3.53	4.21	-
50	-	-	-	1.56	1.95	2.40	2.92	3.50	-
55	-	-	-	-	1.57	1.94	2.38	2.87	-
60	-	-	-	-	-	-	-	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 440	W
Power input	2 820	W
Current consumption	5.06	A
Mass flow	125	kg/h
C.O.P.	1.93	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 50 Hz, ARI rating conditions

R407F

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-23	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	4 828	5 538	6 899	8 504	-	-	-	-	-
20	4 365	5 043	6 335	7 855	9 629	11 685	-	-	-
30	3 856	4 494	5 705	7 127	8 787	10 711	12 929	15 467	-
40	-	3 897	5 016	6 327	7 860	9 642	11 700	14 062	-
45	-	-	4 650	5 903	7 368	9 073	11 048	13 319	-
50	-	-	-	5 463	6 858	8 485	10 374	12 551	-
55	-	-	-	-	-	7 880	9 681	11 763	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	1 375	1 387	1 411	1 448	-	-	-	-	-
20	1 596	1 610	1 631	1 655	1 691	1 747	-	-	-
30	1 923	1 945	1 973	1 994	2 018	2 052	2 105	2 187	-
40	-	2 424	2 468	2 497	2 519	2 541	2 574	2 625	-
45	-	-	2 783	2 820	2 844	2 865	2 891	2 931	-
50	-	-	-	3 195	3 225	3 247	3 269	3 300	-
55	-	-	-	-	-	3 691	3 711	3 736	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	3.43	3.42	3.40	3.37	-	-	-	-	-
20	3.73	3.74	3.74	3.75	3.75	3.75	-	-	-
30	4.04	4.06	4.09	4.11	4.14	4.16	4.19	4.22	-
40	-	4.57	4.62	4.66	4.70	4.74	4.78	4.82	-
45	-	-	5.01	5.06	5.11	5.15	5.20	5.25	-
50	-	-	-	5.58	5.63	5.67	5.72	5.78	-
55	-	-	-	-	-	6.34	6.39	6.44	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	79	90	111	136	-	-	-	-	-
20	77	88	110	134	162	195	-	-	-
30	74	85	106	131	160	192	229	271	-
40	-	80	102	127	155	188	225	267	-
45	-	-	99	124	152	185	222	265	-
50	-	-	-	121	149	182	219	261	-
55	-	-	-	-	-	178	215	257	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.51	3.99	4.89	5.87	-	-	-	-	-
20	2.73	3.13	3.88	4.75	5.70	6.69	-	-	-
30	2.01	2.31	2.89	3.57	4.35	5.22	6.14	7.07	-
40	-	1.61	2.03	2.53	3.12	3.79	4.55	5.36	-
45	-	-	1.67	2.09	2.59	3.17	3.82	4.54	-
50	-	-	-	1.71	2.13	2.61	3.17	3.80	-
55	-	-	-	-	-	2.14	2.61	3.15	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 903	W
Power input	2 820	W
Current consumption	5.06	A
Mass flow	124	kg/h
C.O.P.	2.09	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 60 Hz, EN 12900 rating conditions**
**R407F**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-23	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	5 633	6 461	8 047	9 919	-	-	-	-	-
20	5 063	5 847	7 341	9 099	11 154	13 536	-	-	-
30	4 445	5 175	6 563	8 193	10 097	12 307	14 855	17 774	-
40	3 784	4 452	5 720	7 207	8 946	10 970	13 309	15 997	-
45	-	-	5 276	6 686	8 338	10 262	12 492	15 059	-
50	-	-	-	6 149	7 709	9 531	11 647	14 090	-
55	-	-	-	-	7 060	8 776	10 775	13 089	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	1 596	1 611	1 642	1 683	-	-	-	-	-
20	1 870	1 882	1 906	1 938	1 979	2 031	-	-	-
30	2 268	2 278	2 298	2 324	2 357	2 400	2 453	2 520	-
40	2 850	2 860	2 878	2 900	2 928	2 964	3 008	3 064	-
45	-	-	3 256	3 278	3 304	3 337	3 378	3 430	-
50	-	-	-	3 725	3 750	3 781	3 820	3 868	-
55	-	-	-	-	4 274	4 304	4 340	4 385	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	3.55	3.54	3.52	3.50	-	-	-	-	-
20	3.76	3.77	3.78	3.79	3.80	3.80	-	-	-
30	4.04	4.06	4.10	4.13	4.16	4.18	4.21	4.24	-
40	4.56	4.59	4.64	4.68	4.72	4.76	4.79	4.83	-
45	-	-	5.04	5.09	5.13	5.17	5.20	5.24	-
50	-	-	-	5.61	5.65	5.69	5.72	5.76	-
55	-	-	-	-	6.30	6.34	6.37	6.40	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	98	112	138	168	-	-	-	-	-
20	95	109	136	166	200	240	-	-	-
30	91	105	132	162	197	237	283	334	-
40	86	100	126	156	191	231	277	329	-
45	-	-	123	153	188	228	274	325	-
50	-	-	-	149	184	224	269	321	-
55	-	-	-	-	179	219	265	316	-
60	-	-	-	-	-	-	-	-	-

**Coefficient of performance (C.O.P.)**

10	3.53	4.01	4.90	5.89	-	-	-	-	-
20	2.71	3.11	3.85	4.70	5.64	6.66	-	-	-
30	1.96	2.27	2.86	3.53	4.28	5.13	6.06	7.05	-
40	1.33	1.56	1.99	2.48	3.06	3.70	4.42	5.22	-
45	-	-	1.62	2.04	2.52	3.08	3.70	4.39	-
50	-	-	-	1.65	2.06	2.52	3.05	3.64	-
55	-	-	-	-	1.65	2.04	2.48	2.99	-
60	-	-	-	-	-	-	-	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 686	W
Power input	3 278	W
Current consumption	5.09	A
Mass flow	153	kg/h
C.O.P.	2.04	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 60 Hz, ARI rating conditions**
**R407F**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-23	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	5 953	6 825	8 495	10 464	-	-	-	-	-
20	5 384	6 213	7 795	9 654	11 824	14 339	-	-	-
30	4 762	5 540	7 019	8 755	10 779	13 127	15 832	18 926	-
40	-	4 814	6 176	7 773	9 638	11 806	14 309	17 181	-
45	-	-	5 732	7 255	9 035	11 107	13 505	16 262	-
50	-	-	-	6 719	8 412	10 386	12 676	15 315	-
55	-	-	-	-	-	9 646	11 826	14 346	-
60	-	-	-	-	-	-	-	-	-

**Power input in W**

10	1 596	1 611	1 642	1 683	-	-	-	-	-
20	1 870	1 882	1 906	1 938	1 979	2 031	-	-	-
30	2 268	2 278	2 298	2 324	2 357	2 400	2 453	2 520	-
40	-	2 860	2 878	2 900	2 928	2 964	3 008	3 064	-
45	-	-	3 256	3 278	3 304	3 337	3 378	3 430	-
50	-	-	-	3 725	3 750	3 781	3 820	3 868	-
55	-	-	-	-	-	4 304	4 340	4 385	-
60	-	-	-	-	-	-	-	-	-

**Current consumption in A**

10	3.55	3.54	3.52	3.50	-	-	-	-	-
20	3.76	3.77	3.78	3.79	3.80	3.80	-	-	-
30	4.04	4.06	4.10	4.13	4.16	4.18	4.21	4.24	-
40	-	4.59	4.64	4.68	4.72	4.76	4.79	4.83	-
45	-	-	5.04	5.09	5.13	5.17	5.20	5.24	-
50	-	-	-	5.61	5.65	5.69	5.72	5.76	-
55	-	-	-	-	-	6.34	6.37	6.40	-
60	-	-	-	-	-	-	-	-	-

**Mass flow in kg/h**

10	98	111	137	167	-	-	-	-	-
20	95	109	135	165	199	239	-	-	-
30	91	105	131	161	196	235	281	332	-
40	-	99	125	156	190	230	275	327	-
45	-	-	122	152	187	227	272	323	-
50	-	-	-	148	183	222	268	319	-
55	-	-	-	-	-	218	263	314	-
60	-	-	-	-	-	-	-	-	-

**Coefficient of performance (C.O.P.)**

10	3.73	4.24	5.17	6.22	-	-	-	-	-
20	2.88	3.30	4.09	4.98	5.98	7.06	-	-	-
30	2.10	2.43	3.05	3.77	4.57	5.47	6.45	7.51	-
40	-	1.68	2.15	2.68	3.29	3.98	4.76	5.61	-
45	-	-	1.76	2.21	2.73	3.33	4.00	4.74	-
50	-	-	-	1.80	2.24	2.75	3.32	3.96	-
55	-	-	-	-	-	2.24	2.72	3.27	-
60	-	-	-	-	-	-	-	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	7 255	W
Power input	3 278	W
Current consumption	5.09	A
Mass flow	152	kg/h
C.O.P.	2.21	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R448A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 391	4 289	5 355	6 616	8 096	-	-	-	-
20	2 992	3 869	4 892	6 087	7 479	9 094	10 958	-	-
30	-	-	4 344	5 459	6 748	8 239	9 955	11 924	14 170
40	-	-	-	4 746	5 919	7 270	8 826	10 611	12 651
50	-	-	-	-	5 006	6 204	7 584	9 171	10 991
60	-	-	-	-	-	-	6 245	7 620	9 206

**Power input in W**

10	1 145	1 169	1 186	1 199	1 213	-	-	-	-
20	1 427	1 466	1 492	1 510	1 524	1 540	1 561	-	-
30	-	-	1 883	1 908	1 924	1 937	1 950	1 969	1 997
40	-	-	-	2 432	2 453	2 465	2 473	2 481	2 495
50	-	-	-	-	3 152	3 166	3 171	3 171	3 171
60	-	-	-	-	-	-	4 084	4 078	4 068

**Current consumption in A**

10	3.29	3.32	3.33	3.34	3.34	-	-	-	-
20	3.53	3.58	3.61	3.62	3.62	3.64	3.66	-	-
30	-	-	4.01	4.03	4.04	4.05	4.06	4.09	4.15
40	-	-	-	4.64	4.66	4.67	4.67	4.69	4.73
50	-	-	-	-	5.56	5.57	5.57	5.58	5.60
60	-	-	-	-	-	-	6.83	6.83	6.83

**Mass flow in kg/h**

10	55	70	88	110	135	-	-	-	-
20	52	68	86	108	133	163	199	-	-
30	-	-	83	105	130	160	196	237	285
40	-	-	-	100	125	155	191	232	280
50	-	-	-	-	118	148	183	224	272
60	-	-	-	-	-	-	172	213	261

**Coefficient of performance (C.O.P.)**

10	2.96	3.67	4.52	5.52	6.68	-	-	-	-
20	2.10	2.64	3.28	4.03	4.91	5.91	7.02	-	-
30	-	-	2.31	2.86	3.51	4.25	5.11	6.06	7.09
40	-	-	-	1.95	2.41	2.95	3.57	4.28	5.07
50	-	-	-	-	1.59	1.96	2.39	2.89	3.47
60	-	-	-	-	-	-	1.53	1.87	2.26

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 472	W
Power input	2 779	W
Current consumption	5.07	A
Mass flow	122	kg/h
C.O.P.	1.97	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K

**R448A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 405	4 310	5 385	6 657	8 148	-	-	-	-
20	2 966	3 844	4 872	6 074	7 477	9 105	10 978	-	-
30	2 476	3 311	4 274	5 393	6 692	8 197	9 932	11 917	14 170
40	-	-	3 611	4 629	5 810	7 177	8 758	10 576	12 651
50	-	-	-	3 802	4 847	6 062	7 474	9 109	10 991
60	-	-	-	-	3 823	4 868	6 094	7 530	9 206

**Power input in W**

10	1 145	1 169	1 186	1 199	1 213	-	-	-	-
20	1 427	1 466	1 492	1 510	1 524	1 540	1 561	-	-
30	1 789	1 844	1 883	1 908	1 924	1 937	1 950	1 969	1 997
40	-	-	2 398	2 432	2 453	2 465	2 473	2 481	2 495
50	-	-	-	3 125	3 152	3 166	3 171	3 171	3 171
60	-	-	-	-	4 063	4 080	4 084	4 078	4 068

**Current consumption in A**

10	3.29	3.32	3.33	3.34	3.34	-	-	-	-
20	3.53	3.58	3.61	3.62	3.62	3.64	3.66	-	-
30	3.90	3.97	4.01	4.03	4.04	4.05	4.06	4.09	4.15
40	-	-	4.61	4.64	4.66	4.67	4.67	4.69	4.73
50	-	-	-	5.53	5.56	5.57	5.57	5.58	5.60
60	-	-	-	-	6.81	6.82	6.83	6.83	6.83

**Mass flow in kg/h**

10	65	82	101	123	148	-	-	-	-
20	62	79	99	121	146	176	209	-	-
30	57	75	95	117	143	172	206	243	285
40	-	-	89	111	137	167	200	238	280
50	-	-	-	103	129	159	192	230	272
60	-	-	-	-	118	148	181	219	261

**Coefficient of performance (C.O.P.)**

10	2.97	3.69	4.54	5.55	6.72	-	-	-	-
20	2.08	2.62	3.26	4.02	4.90	5.91	7.03	-	-
30	1.38	1.79	2.27	2.83	3.48	4.23	5.09	6.05	7.09
40	-	-	1.51	1.90	2.37	2.91	3.54	4.26	5.07
50	-	-	-	1.22	1.54	1.91	2.36	2.87	3.47
60	-	-	-	-	0.94	1.19	1.49	1.85	2.26

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 337	W
Power input	2 779	W
Current consumption	5.07	A
Mass flow	134	kg/h
C.O.P.	1.92	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R448A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 861	4 895	6 147	7 647	9 429	-	-	-	-
20	3 570	4 584	5 787	7 211	8 887	10 847	13 123	-	-
30	-	-	5 303	6 618	8 158	9 953	12 035	14 437	17 189
40	-	-	-	5 909	7 280	8 879	10 736	12 884	15 354
50	-	-	-	-	6 294	7 664	9 265	11 128	13 285
60	-	-	-	-	-	-	7 662	9 208	11 020

**Power input in W**

10	1 339	1 368	1 400	1 438	1 486	-	-	-	-
20	1 683	1 712	1 741	1 772	1 810	1 858	1 918	-	-
30	-	-	2 194	2 217	2 245	2 278	2 321	2 377	2 448
40	-	-	-	2 822	2 837	2 855	2 880	2 914	2 961
50	-	-	-	-	3 636	3 638	3 643	3 654	3 675
60	-	-	-	-	-	-	4 659	4 646	4 640

**Current consumption in A**

10	2.98	3.04	3.07	3.10	3.13	-	-	-	-
20	3.37	3.43	3.47	3.50	3.52	3.55	3.59	-	-
30	-	-	3.92	3.94	3.96	3.98	4.02	4.07	4.16
40	-	-	-	4.56	4.57	4.59	4.61	4.66	4.73
50	-	-	-	-	5.47	5.48	5.50	5.53	5.59
60	-	-	-	-	-	-	6.78	6.81	6.85

**Mass flow in kg/h**

10	63	80	101	127	157	-	-	-	-
20	62	81	102	128	158	195	238	-	-
30	-	-	101	127	157	194	237	287	346
40	-	-	-	124	154	190	232	281	339
50	-	-	-	-	148	182	223	272	328
60	-	-	-	-	-	-	212	258	313

**Coefficient of performance (C.O.P.)**

10	2.88	3.58	4.39	5.32	6.35	-	-	-	-
20	2.12	2.68	3.32	4.07	4.91	5.84	6.84	-	-
30	-	-	2.42	2.98	3.63	4.37	5.19	6.07	7.02
40	-	-	-	2.09	2.57	3.11	3.73	4.42	5.19
50	-	-	-	-	1.73	2.11	2.54	3.05	3.61
60	-	-	-	-	-	-	1.64	1.98	2.37

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 798	W
Power input	3 208	W
Current consumption	4.98	A
Mass flow	151	kg/h
C.O.P.	2.12	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R448A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 877	4 919	6 181	7 695	9 490	-	-	-	-
20	3 539	4 554	5 763	7 196	8 885	10 860	13 148	-	-
30	3 138	4 095	5 218	6 538	8 090	9 903	12 007	14 429	17 189
40	-	-	4 587	5 764	7 146	8 765	10 654	12 842	15 354
50	-	-	-	4 913	6 095	7 489	9 131	11 052	13 285
60	-	-	-	-	4 976	6 114	7 476	9 100	11 020

**Power input in W**

10	1 339	1 368	1 400	1 438	1 486	-	-	-	-
20	1 683	1 712	1 741	1 772	1 810	1 858	1 918	-	-
30	2 143	2 170	2 194	2 217	2 245	2 278	2 321	2 377	2 448
40	-	-	2 807	2 822	2 837	2 855	2 880	2 914	2 961
50	-	-	-	3 635	3 636	3 638	3 643	3 654	3 675
60	-	-	-	-	4 692	4 675	4 659	4 646	4 640

**Current consumption in A**

10	2.98	3.04	3.07	3.10	3.13	-	-	-	-
20	3.37	3.43	3.47	3.50	3.52	3.55	3.59	-	-
30	3.81	3.88	3.92	3.94	3.96	3.98	4.02	4.07	4.16
40	-	-	4.53	4.56	4.57	4.59	4.61	4.66	4.73
50	-	-	-	5.46	5.47	5.48	5.50	5.53	5.59
60	-	-	-	-	6.76	6.77	6.78	6.81	6.85

**Mass flow in kg/h**

10	74	94	116	142	172	-	-	-	-
20	74	94	117	143	174	209	250	-	-
30	73	93	116	142	173	208	249	295	346
40	-	-	113	139	169	204	244	289	339
50	-	-	-	134	163	196	235	279	328
60	-	-	-	-	154	186	223	265	313

**Coefficient of performance (C.O.P.)**

10	2.90	3.60	4.42	5.35	6.39	-	-	-	-
20	2.10	2.66	3.31	4.06	4.91	5.85	6.86	-	-
30	1.46	1.89	2.38	2.95	3.60	4.35	5.17	6.07	7.02
40	-	-	1.63	2.04	2.52	3.07	3.70	4.41	5.19
50	-	-	-	1.35	1.68	2.06	2.51	3.02	3.61
60	-	-	-	-	1.06	1.31	1.60	1.96	2.37

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 631	W
Power input	3 208	W
Current consumption	4.98	A
Mass flow	166	kg/h
C.O.P.	2.07	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R449A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 391	4 289	5 355	6 616	8 096	-	-	-	-
20	2 992	3 869	4 892	6 087	7 479	9 094	10 958	-	-
30	-	-	4 344	5 459	6 748	8 239	9 955	11 924	14 170
40	-	-	-	4 746	5 919	7 270	8 826	10 611	12 651
50	-	-	-	-	5 006	6 204	7 584	9 171	10 991
60	-	-	-	-	-	-	6 245	7 620	9 206

**Power input in W**

10	1 145	1 169	1 186	1 199	1 213	-	-	-	-
20	1 427	1 466	1 492	1 510	1 524	1 540	1 561	-	-
30	-	-	1 883	1 908	1 924	1 937	1 950	1 969	1 997
40	-	-	-	2 432	2 453	2 465	2 473	2 481	2 495
50	-	-	-	-	3 152	3 166	3 171	3 171	3 171
60	-	-	-	-	-	-	4 084	4 078	4 068

**Current consumption in A**

10	3.29	3.32	3.33	3.34	3.34	-	-	-	-
20	3.53	3.58	3.61	3.62	3.62	3.64	3.66	-	-
30	-	-	4.01	4.03	4.04	4.05	4.06	4.09	4.15
40	-	-	-	4.64	4.66	4.67	4.67	4.69	4.73
50	-	-	-	-	5.56	5.57	5.57	5.58	5.60
60	-	-	-	-	-	-	6.83	6.83	6.83

**Mass flow in kg/h**

10	55	70	88	110	135	-	-	-	-
20	52	68	86	108	133	163	199	-	-
30	-	-	83	105	130	160	196	237	285
40	-	-	-	100	125	155	191	232	280
50	-	-	-	-	118	148	183	224	272
60	-	-	-	-	-	-	172	213	261

**Coefficient of performance (C.O.P.)**

10	2.96	3.67	4.52	5.52	6.68	-	-	-	-
20	2.10	2.64	3.28	4.03	4.91	5.91	7.02	-	-
30	-	-	2.31	2.86	3.51	4.25	5.11	6.06	7.09
40	-	-	-	1.95	2.41	2.95	3.57	4.28	5.07
50	-	-	-	-	1.59	1.96	2.39	2.89	3.47
60	-	-	-	-	-	-	1.53	1.87	2.26

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 472	W
Power input	2 779	W
Current consumption	5.07	A
Mass flow	122	kg/h
C.O.P.	1.97	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R449A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 397	4 302	5 377	6 649	8 141	-	-	-	-
20	2 959	3 836	4 863	6 066	7 469	9 097	10 972	-	-
30	2 468	3 302	4 265	5 383	6 683	8 189	9 926	11 914	14 170
40	-	-	3 601	4 620	5 800	7 169	8 752	10 572	12 651
50	-	-	-	3 792	4 838	6 053	7 467	9 104	10 991
60	-	-	-	-	3 813	4 859	6 087	7 526	9 206

**Power input in W**

10	1 145	1 169	1 186	1 199	1 213	-	-	-	-
20	1 427	1 466	1 492	1 510	1 524	1 540	1 561	-	-
30	1 789	1 844	1 883	1 908	1 924	1 937	1 950	1 969	1 997
40	-	-	2 398	2 432	2 453	2 465	2 473	2 481	2 495
50	-	-	-	3 125	3 152	3 166	3 171	3 171	3 171
60	-	-	-	-	4 063	4 080	4 084	4 078	4 068

**Current consumption in A**

10	3.29	3.32	3.33	3.34	3.34	-	-	-	-
20	3.53	3.58	3.61	3.62	3.62	3.64	3.66	-	-
30	3.90	3.97	4.01	4.03	4.04	4.05	4.06	4.09	4.15
40	-	-	4.61	4.64	4.66	4.67	4.67	4.69	4.73
50	-	-	-	5.53	5.56	5.57	5.57	5.58	5.60
60	-	-	-	-	6.81	6.82	6.83	6.83	6.83

**Mass flow in kg/h**

10	65	82	101	123	148	-	-	-	-
20	62	79	99	121	146	176	209	-	-
30	57	75	95	117	143	172	206	243	285
40	-	-	89	111	137	167	200	238	280
50	-	-	-	103	129	159	192	230	272
60	-	-	-	-	118	148	181	219	261

**Coefficient of performance (C.O.P.)**

10	2.97	3.68	4.54	5.55	6.71	-	-	-	-
20	2.07	2.62	3.26	4.02	4.90	5.91	7.03	-	-
30	1.38	1.79	2.27	2.82	3.47	4.23	5.09	6.05	7.09
40	-	-	1.50	1.90	2.36	2.91	3.54	4.26	5.07
50	-	-	-	1.21	1.53	1.91	2.35	2.87	3.47
60	-	-	-	-	0.94	1.19	1.49	1.85	2.26

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 328	W
Power input	2 779	W
Current consumption	5.07	A
Mass flow	134	kg/h
C.O.P.	1.92	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R449A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 861	4 895	6 147	7 647	9 429	-	-	-	-
20	3 570	4 584	5 787	7 211	8 887	10 847	13 123	-	-
30	-	-	5 303	6 618	8 158	9 953	12 035	14 437	17 189
40	-	-	-	5 909	7 280	8 879	10 736	12 884	15 354
50	-	-	-	-	6 294	7 664	9 265	11 128	13 285
60	-	-	-	-	-	-	7 662	9 208	11 020

**Power input in W**

10	1 339	1 368	1 400	1 438	1 486	-	-	-	-
20	1 683	1 712	1 741	1 772	1 810	1 858	1 918	-	-
30	-	-	2 194	2 217	2 245	2 278	2 321	2 377	2 448
40	-	-	-	2 822	2 837	2 855	2 880	2 914	2 961
50	-	-	-	-	3 636	3 638	3 643	3 654	3 675
60	-	-	-	-	-	-	4 659	4 646	4 640

**Current consumption in A**

10	2.98	3.04	3.07	3.10	3.13	-	-	-	-
20	3.37	3.43	3.47	3.50	3.52	3.55	3.59	-	-
30	-	-	3.92	3.94	3.96	3.98	4.02	4.07	4.16
40	-	-	-	4.56	4.57	4.59	4.61	4.66	4.73
50	-	-	-	-	5.47	5.48	5.50	5.53	5.59
60	-	-	-	-	-	-	6.78	6.81	6.85

**Mass flow in kg/h**

10	64	82	103	129	159	-	-	-	-
20	64	82	104	130	161	198	242	-	-
30	-	-	103	129	160	197	241	292	352
40	-	-	-	126	157	193	236	287	346
50	-	-	-	-	151	186	228	278	335
60	-	-	-	-	-	-	216	264	320

**Coefficient of performance (C.O.P.)**

10	2.88	3.58	4.39	5.32	6.35	-	-	-	-
20	2.12	2.68	3.32	4.07	4.91	5.84	6.84	-	-
30	-	-	2.42	2.98	3.63	4.37	5.19	6.07	7.02
40	-	-	-	2.09	2.57	3.11	3.73	4.42	5.19
50	-	-	-	-	1.73	2.11	2.54	3.05	3.61
60	-	-	-	-	-	-	1.64	1.98	2.37

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 798	W
Power input	3 208	W
Current consumption	4.98	A
Mass flow	154	kg/h
C.O.P.	2.12	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R449A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 869	4 910	6 172	7 685	9 481	-	-	-	-
20	3 530	4 545	5 753	7 186	8 875	10 851	13 141	-	-
30	3 129	4 085	5 206	6 527	8 079	9 893	11 999	14 424	17 189
40	-	-	4 575	5 752	7 134	8 755	10 646	12 837	15 354
50	-	-	-	4 901	6 082	7 478	9 122	11 047	13 285
60	-	-	-	-	4 963	6 103	7 468	9 094	11 020

**Power input in W**

10	1 339	1 368	1 400	1 438	1 486	-	-	-	-
20	1 683	1 712	1 741	1 772	1 810	1 858	1 918	-	-
30	2 143	2 170	2 194	2 217	2 245	2 278	2 321	2 377	2 448
40	-	-	2 807	2 822	2 837	2 855	2 880	2 914	2 961
50	-	-	-	3 635	3 636	3 638	3 643	3 654	3 675
60	-	-	-	-	4 692	4 675	4 659	4 646	4 640

**Current consumption in A**

10	2.98	3.04	3.07	3.10	3.13	-	-	-	-
20	3.37	3.43	3.47	3.50	3.52	3.55	3.59	-	-
30	3.81	3.88	3.92	3.94	3.96	3.98	4.02	4.07	4.16
40	-	-	4.53	4.56	4.57	4.59	4.61	4.66	4.73
50	-	-	-	5.46	5.47	5.48	5.50	5.53	5.59
60	-	-	-	-	6.76	6.77	6.78	6.81	6.85

**Mass flow in kg/h**

10	76	95	118	144	175	-	-	-	-
20	75	95	119	145	177	213	255	-	-
30	74	95	118	145	176	212	254	300	352
40	-	-	115	142	172	208	249	295	346
50	-	-	-	136	166	200	240	285	335
60	-	-	-	-	157	190	228	271	320

**Coefficient of performance (C.O.P.)**

10	2.89	3.59	4.41	5.34	6.38	-	-	-	-
20	2.10	2.65	3.31	4.05	4.90	5.84	6.85	-	-
30	1.46	1.88	2.37	2.94	3.60	4.34	5.17	6.07	7.02
40	-	-	1.63	2.04	2.51	3.07	3.70	4.41	5.19
50	-	-	-	1.35	1.67	2.06	2.50	3.02	3.61
60	-	-	-	-	1.06	1.31	1.60	1.96	2.37

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 619	W
Power input	3 208	W
Current consumption	4.98	A
Mass flow	169	kg/h
C.O.P.	2.06	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With accoustic hood		dB(A)

Tolerance according EN12900



**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R452A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 695	4 596	5 684	6 982	8 511	-	-	-	-
20	3 324	4 191	5 222	6 438	7 862	9 516	11 421	-	-
30	-	3 726	4 672	5 781	7 075	8 573	10 300	12 276	14 523
40	-	-	4 057	5 033	6 168	7 486	9 008	10 756	12 751
50	-	-	-	-	5 164	6 275	7 566	9 059	10 777
60	-	-	-	-	-	4 960	5 995	7 207	8 620

**Power input in W**

10	1 181	1 203	1 219	1 226	1 223	-	-	-	-
20	1 497	1 524	1 549	1 570	1 585	1 593	1 591	-	-
30	-	1 920	1 941	1 962	1 983	2 000	2 013	2 018	2 015
40	-	-	2 471	2 479	2 490	2 504	2 517	2 528	2 535
50	-	-	-	-	3 184	3 179	3 180	3 183	3 187
60	-	-	-	-	-	4 104	4 077	4 058	4 045

**Current consumption in A**

10	3.34	3.34	3.34	3.33	3.33	-	-	-	-
20	3.61	3.64	3.66	3.67	3.67	3.68	3.70	-	-
30	-	4.03	4.07	4.10	4.11	4.13	4.14	4.16	4.18
40	-	-	4.67	4.71	4.73	4.75	4.76	4.77	4.78
50	-	-	-	-	5.62	5.64	5.64	5.64	5.63
60	-	-	-	-	-	6.88	6.88	6.86	6.83

**Mass flow in kg/h**

10	74	94	117	144	176	-	-	-	-
20	73	93	116	144	176	215	261	-	-
30	-	91	114	141	174	213	259	313	376
40	-	-	110	137	170	208	254	307	369
50	-	-	-	-	162	200	245	298	359
60	-	-	-	-	-	189	232	284	344

**Coefficient of performance (C.O.P.)**

10	3.13	3.82	4.66	5.69	6.96	-	-	-	-
20	2.22	2.75	3.37	4.10	4.96	5.97	7.18	-	-
30	-	1.94	2.41	2.95	3.57	4.29	5.12	6.08	7.21
40	-	-	1.64	2.03	2.48	2.99	3.58	4.25	5.03
50	-	-	-	-	1.62	1.97	2.38	2.85	3.38
60	-	-	-	-	-	1.21	1.47	1.78	2.13

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 677	W
Power input	2 809	W
Current consumption	5.14	A
Mass flow	166	kg/h
C.O.P.	2.02	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R452A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 576	4 474	5 565	6 874	8 421	-	-	-	-
20	3 155	4 011	5 039	6 262	7 704	9 387	11 333	-	-
30	2 704	3 491	4 427	5 538	6 848	8 379	10 157	12 199	14 523
40	2 242	2 934	3 753	4 725	5 875	7 229	8 811	10 645	12 751
50	-	-	3 038	3 846	4 810	5 958	7 316	8 914	10 777
60	-	-	-	-	3 668	4 584	5 692	7 026	8 620

**Power input in W**

10	1 181	1 203	1 219	1 226	1 223	-	-	-	-
20	1 497	1 524	1 549	1 570	1 585	1 593	1 591	-	-
30	1 903	1 920	1 941	1 962	1 983	2 000	2 013	2 018	2 015
40	2 474	2 469	2 471	2 479	2 490	2 504	2 517	2 528	2 535
50	-	-	3 215	3 195	3 184	3 179	3 180	3 183	3 187
60	-	-	-	-	4 140	4 104	4 077	4 058	4 045

**Current consumption in A**

10	3.34	3.34	3.34	3.33	3.33	-	-	-	-
20	3.61	3.64	3.66	3.67	3.67	3.68	3.70	-	-
30	3.98	4.03	4.07	4.10	4.11	4.13	4.14	4.16	4.18
40	4.53	4.61	4.67	4.71	4.73	4.75	4.76	4.77	4.78
50	-	-	5.53	5.59	5.62	5.64	5.64	5.64	5.63
60	-	-	-	-	6.86	6.88	6.88	6.86	6.83

**Mass flow in kg/h**

10	88	109	133	161	194	-	-	-	-
20	87	108	133	161	194	232	275	-	-
30	84	106	130	159	192	230	273	322	376
40	80	101	126	154	187	224	267	316	369
50	-	-	119	147	178	215	258	306	359
60	-	-	-	-	167	203	245	292	344

**Coefficient of performance (C.O.P.)**

10	3.03	3.72	4.57	5.61	6.89	-	-	-	-
20	2.11	2.63	3.25	3.99	4.86	5.89	7.12	-	-
30	1.42	1.82	2.28	2.82	3.45	4.19	5.05	6.04	7.21
40	0.91	1.19	1.52	1.91	2.36	2.89	3.50	4.21	5.03
50	-	-	0.94	1.20	1.51	1.87	2.30	2.80	3.38
60	-	-	-	-	0.89	1.12	1.40	1.73	2.13

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 353	W
Power input	2 809	W
Current consumption	5.14	A
Mass flow	183	kg/h
C.O.P.	1.91	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R452A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 466	5 540	6 852	8 429	10 296	-	-	-	-
20	4 039	5 048	6 268	7 725	9 446	11 456	13 782	-	-
30	-	4 534	5 631	6 938	8 481	10 287	12 381	14 791	17 540
40	-	-	4 960	6 087	7 422	8 993	10 826	12 947	15 382
50	-	-	-	-	6 289	7 595	9 136	10 938	13 028
60	-	-	-	-	-	6 111	7 330	8 784	10 500

**Power input in W**

10	1 538	1 582	1 612	1 637	1 662	-	-	-	-
20	1 815	1 881	1 924	1 952	1 971	1 990	2 017	-	-
30	-	2 279	2 345	2 386	2 410	2 424	2 436	2 453	2 483
40	-	-	2 890	2 955	2 993	3 013	3 021	3 025	3 032
50	-	-	-	-	3 739	3 774	3 788	3 789	3 784
60	-	-	-	-	-	4 722	4 752	4 761	4 754

**Current consumption in A**

10	3.40	3.34	3.30	3.29	3.31	-	-	-	-
20	3.60	3.61	3.60	3.60	3.61	3.64	3.70	-	-
30	-	3.97	4.03	4.07	4.09	4.10	4.12	4.16	4.22
40	-	-	4.59	4.70	4.76	4.79	4.80	4.80	4.80
50	-	-	-	-	5.63	5.72	5.75	5.74	5.70
60	-	-	-	-	-	6.88	6.97	6.99	6.95

**Mass flow in kg/h**

10	90	113	141	173	213	-	-	-	-
20	89	112	139	172	212	259	315	-	-
30	-	110	137	170	209	256	311	377	454
40	-	-	134	166	204	250	305	370	446
50	-	-	-	-	198	242	296	359	434
60	-	-	-	-	-	233	284	346	419

**Coefficient of performance (C.O.P.)**

10	2.90	3.50	4.25	5.15	6.19	-	-	-	-
20	2.23	2.68	3.26	3.96	4.79	5.76	6.83	-	-
30	-	1.99	2.40	2.91	3.52	4.24	5.08	6.03	7.06
40	-	-	1.72	2.06	2.48	2.98	3.58	4.28	5.07
50	-	-	-	-	1.68	2.01	2.41	2.89	3.44
60	-	-	-	-	-	1.29	1.54	1.85	2.21

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 864	W
Power input	3 345	W
Current consumption	5.17	A
Mass flow	201	kg/h
C.O.P.	2.05	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R452A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 321	5 393	6 709	8 298	10 187	-	-	-	-
20	3 833	4 832	6 049	7 514	9 255	11 301	13 675	-	-
30	3 352	4 248	5 336	6 646	8 209	10 054	12 209	14 699	17 540
40	2 892	3 658	4 588	5 715	7 070	8 684	10 589	12 813	15 382
50	-	-	3 823	4 739	5 857	7 210	8 834	10 762	13 028
60	-	-	-	-	4 582	5 646	6 960	8 563	10 500

**Power input in W**

10	1 538	1 582	1 612	1 637	1 662	-	-	-	-
20	1 815	1 881	1 924	1 952	1 971	1 990	2 017	-	-
30	2 181	2 279	2 345	2 386	2 410	2 424	2 436	2 453	2 483
40	2 652	2 792	2 890	2 955	2 993	3 013	3 021	3 025	3 032
50	-	-	3 577	3 676	3 739	3 774	3 788	3 789	3 784
60	-	-	-	-	4 661	4 722	4 752	4 761	4 754

**Current consumption in A**

10	3.40	3.34	3.30	3.29	3.31	-	-	-	-
20	3.60	3.61	3.60	3.60	3.61	3.64	3.70	-	-
30	3.87	3.97	4.03	4.07	4.09	4.10	4.12	4.16	4.22
40	4.19	4.42	4.59	4.70	4.76	4.79	4.80	4.80	4.80
50	-	-	5.28	5.49	5.63	5.72	5.75	5.74	5.70
60	-	-	-	-	6.71	6.88	6.97	6.99	6.95

**Mass flow in kg/h**

10	107	132	161	195	234	-	-	-	-
20	105	130	160	193	233	279	332	-	-
30	104	129	157	190	230	275	328	388	454
40	103	126	154	186	224	269	321	380	446
50	-	-	150	181	217	261	312	369	434
60	-	-	-	-	209	251	299	356	419

**Coefficient of performance (C.O.P.)**

10	2.81	3.41	4.16	5.07	6.13	-	-	-	-
20	2.11	2.57	3.14	3.85	4.70	5.68	6.78	-	-
30	1.54	1.86	2.28	2.79	3.41	4.15	5.01	5.99	7.06
40	1.09	1.31	1.59	1.93	2.36	2.88	3.51	4.24	5.07
50	-	-	1.07	1.29	1.57	1.91	2.33	2.84	3.44
60	-	-	-	-	0.98	1.20	1.46	1.80	2.21

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 472	W
Power input	3 345	W
Current consumption	5.17	A
Mass flow	221	kg/h
C.O.P.	1.93	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

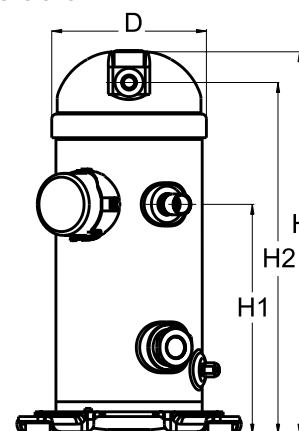
tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**General Characteristics**

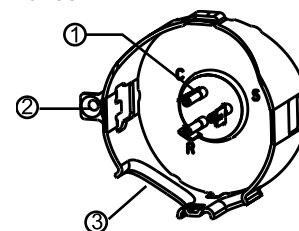
Model number (on compressor nameplate)	MLZ026T5LP9A	MLZ026T5LP9A
Code number for Singlepack*	121U8639	121L8639
Code number for Industrial pack**	121U8638	121L8638
Drawing number	0XC6300B-1	0XC6300B-1
Suction and discharge connections	Brazed	Brazed
Suction connection	3/4" ODF	3/4" ODF
Discharge connection	1/2" ODF	1/2" ODF
Oil sight glass	Threaded	Threaded
Oil equalisation connection	None	None
Oil drain connection	1/4" flare	1/4" flare
LP gauge port	None	None
IPR valve	32 bar	32 bar
Swept volume	57.11 cm <sup>3</sup> /rev	
Displacement @ Nominal speed	9.9 m <sup>3</sup> /h @ 2900 rpm	
Net weight	31 kg	
Oil charge	1.06 litre, POE --	
Maximum system test pressure Low Side / High side	- bar(g) / - bar(g)	
Maximum differential test pressure	- bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	3.63 kg	
Approved refrigerants	R404A, R507, R134a, R407A, R407F, R448A, R449A, R452A, R22	

**Dimensions**


D=164.5 mm  
H=412 mm  
H1=250 mm  
H2=379 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	230V/1/50Hz
Voltage range	207-253 V
Winding resistance (main / start) at 25°C	0.689 Ω / 1.509 Ω
Run capacitors A + C	70 μF + - μF
Start capacitor B	145-175 μF
Start relay	RVA9CKL
Rated Load Amps (RLA)	16.7 A
Maximum Continuous Current (MCC)	26 A
Locked Rotor Amps (LRA)	97 A
Motor protection	Internal overload protector

**Terminal box**


IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Suction Rotolock nut or valve	0 Nm
Discharge Rotolock nut or valve	0 Nm
Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, -, -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**

**Code no.**

Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
Gasket, 1-1/4"	8156131

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

**Rotolock accessories, sets**

**Code no.**

Solder sleeve adapter set (1-1/4" Rotolock, 3/4" ODF), (1" Rotolock, 1/2" ODF)	120Z0126
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

**Oil / lubricants**

**Code no.**

POE lubricant, 215PZ(PL46HB), 1 litre can	120Z0648
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
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**Miscellaneous accessories**

**Code no.**

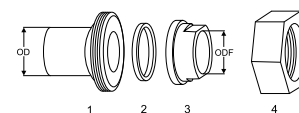
Acoustic hood	120Z5083
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**Spare parts**

**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

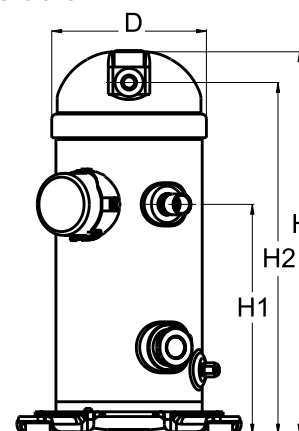
**Solder sleeve adapter set**



- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)

**General Characteristics**

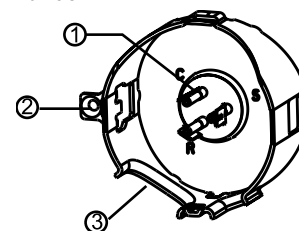
Model number (on compressor nameplate)	MLZ026T5LP9	MLZ026T5LP9
Code number for Singlepack*	121U8030	120U8030
Code number for Industrial pack**	121U8029	120U8029
Drawing number	0XC6300B-1	0XC6300B-1
Suction and discharge connections	Brazed	Brazed
Suction connection	3/4" ODF	3/4" ODF
Discharge connection	1/2" ODF	1/2" ODF
Oil sight glass	Threaded	Threaded
Oil equalisation connection	None	None
Oil drain connection	1/4" flare	1/4" flare
LP gauge port	None	None
IPR valve	32 bar	32 bar
Swept volume	57.11 cm <sup>3</sup> /rev	
Displacement @ Nominal speed	9.9 m <sup>3</sup> /h @ 2900 rpm	
Net weight	31 kg	
Oil charge	1.06 litre, PVE --	
Maximum system test pressure Low Side / High side	- bar(g) / - bar(g)	
Maximum differential test pressure	- bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	3.63 kg	
Approved refrigerants	R404A, R507, R134a, R407A, R407C, R407F, R22	

**Dimensions**


D=164.5 mm  
H=412 mm  
H1=250 mm  
H2=379 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	230V/1/50Hz
Voltage range	207-253 V
Winding resistance (main / start) at 25°C	0.689 Ω / 1.509 Ω
Run capacitors A + C	70 μF + - μF
Start capacitor B	145-175 μF
Start relay	RVA9CKL
Rated Load Amps (RLA)	16.7 A
Maximum Continuous Current (MCC)	26 A
Locked Rotor Amps (LRA)	97 A
Motor protection	Internal overload protector

**Terminal box**


IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Suction Rotolock nut or valve	0 Nm
Discharge Rotolock nut or valve	0 Nm
Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, -, -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**

**Code no.**

Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
Gasket, 1-1/4"	8156131

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

**Rotolock accessories, sets**

**Code no.**

Solder sleeve adapter set (1-1/4" Rotolock, 3/4" ODF), (1" Rotolock, 1/2" ODF)	120Z0126
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

**Oil / lubricants**

**Code no.**

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
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**Miscellaneous accessories**

**Code no.**

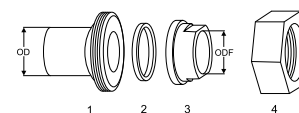
Acoustic hood	120Z5043
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**Spare parts**

**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

**Solder sleeve adapter set**

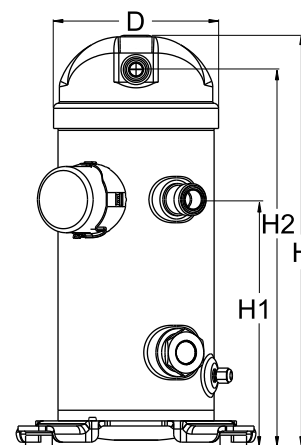


- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)



**General Characteristics**

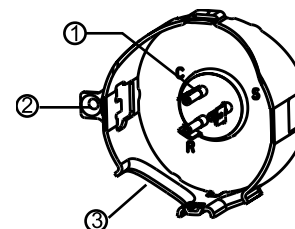
Model number (on compressor nameplate)		<b>MLZ026T5LT9</b>
Code number for Singlepack*		121U8527
Code number for Industrial pack**		121U8526
Drawing number		0XC6290B-1
Suction and discharge connections		Rotolock
Suction connection		2-1/4 " Rotolock
Discharge connection		1-3/4 " Rotolock
Suction connection with supplied sleeve		1-5/8 " -
Discharge connection with supplied sleeve	- "	1-1/8 " -
Oil sight glass		Threaded
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		None
Swept volume		57.11 cm <sup>3</sup> /rev
Displacement @ Nominal speed		9.9 m <sup>3</sup> /h @ 2900 rpm
Net weight		31 kg
Oil charge		1.06 litre, PVE - -
Maximum system test pressure Low Side / High side		- bar(g) / - bar(g)
Maximum differential test pressure		- bar
Maximum number of starts per hour		12
Refrigerant charge limit		3.63 kg
Approved refrigerants		R404A, R507, R134a, R407A, R407C, R407F, R22

**Dimensions**


D=184 mm  
H=412.1 mm  
H1=249.8 mm  
H2=379.4 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	230V/1/50Hz
Voltage range	207-253 V
Winding resistance (main / start) at 25°C	0.689 Ω / 1.509 Ω
Run capacitors A + C	70 μF + - μF
Start capacitor B	145-175 μF
Start relay	RVA9CKL
Rated Load Amps (RLA)	16.7 A
Maximum Continuous Current (MCC)	26 A
Locked Rotor Amps (LRA)	97 A
Motor protection	Internal overload protector

**Terminal box**


IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, -, -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**

**Code no.**

Solder sleeve, P03 (2-1/4" Rotolock, 1-5/8" ODF)	8153006
Rotolock valve, V03 (2-1/4" Rotolock, 1-5/8" ODF)	8168026
Gasket, 2-1/4"	8156133

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

**Rotolock accessories, sets**

**Code no.**

Valve set, V03 (2-1/4"~1-5/8"), V02 (1-3/4"~1-1/8")	7703383
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013

**Oil / lubricants**

**Code no.**

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
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**Miscellaneous accessories**

**Code no.**

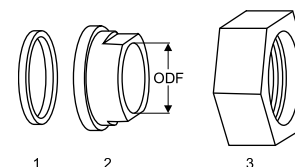
Acoustic hood	120Z5043
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**Spare parts**

**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

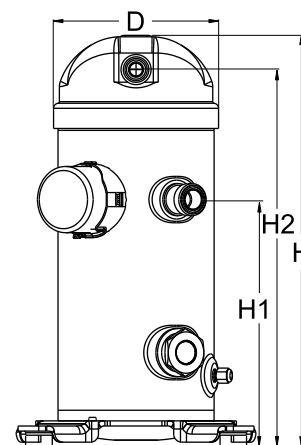
**Gaskets, sleeves and nuts**



- 1: Gasket
- 2: Solder sleeve
- 3: Rotolock nut

**General Characteristics**

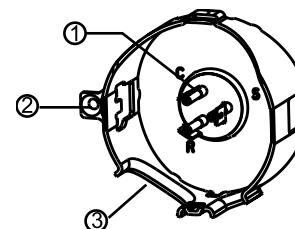
Model number (on compressor nameplate)	MLZ026T5LP9A	MLZ026T5LT9A
Code number for Singlepack*		121U8757
Code number for Industrial pack**	120U8638	121U8756
Drawing number	0XC6300B-1	0XC6290B-1
Suction and discharge connections	Brazed	Rotolock
Suction connection	3/4" ODF	2-1/4" Rotolock
Discharge connection	1/2" ODF	1-3/4" Rotolock
Suction connection with supplied sleeve		1-5/8" -
Discharge connection with supplied sleeve	- "	1-1/8" -
Oil sight glass	Threaded	Threaded
Oil equalisation connection	None	None
Oil drain connection	1/4" flare	None
LP gauge port	None	None
IPR valve	32 bar	None
Swept volume	57.11 cm <sup>3</sup> /rev	
Displacement @ Nominal speed	9.9 m <sup>3</sup> /h @ 2900 rpm	
Net weight	31 kg	
Oil charge	1.06 litre, POE - -	
Maximum system test pressure Low Side / High side	- bar(g) / - bar(g)	
Maximum differential test pressure	- bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	3.63 kg	
Approved refrigerants	R404A,R507,R134a,R407A,R407F,R448A,R449A,R452A,R22	

**Dimensions**


D=184 mm  
H=412.1 mm  
H1=249.8 mm  
H2=379.4 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	230V/1/50Hz
Voltage range	207-253 V
Winding resistance (main / start) at 25°C	0.689 Ω / 1.509 Ω
Run capacitors A + C	70 μF + - μF
Start capacitor B	145-175 μF
Start relay	RVA9CKL
Rated Load Amps (RLA)	16.7 A
Maximum Continuous Current (MCC)	26 A
Locked Rotor Amps (LRA)	97 A
Motor protection	Internal overload protector

**Terminal box**


IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Suction Rotolock nut or valve	0 Nm
Discharge Rotolock nut or valve	0 Nm
Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, UL certified (file SA11565), -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**

**Code no.**

Solder sleeve, P03 (2-1/4" Rotolock, 1-5/8" ODF)	8153006
Rotolock valve, V03 (2-1/4" Rotolock, 1-5/8" ODF)	8168026
Gasket, 2-1/4"	8156133

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

**Rotolock accessories, sets**

**Code no.**

Valve set, V03 (2-1/4"~1-5/8"), V02 (1-3/4"~1-1/8")	7703383
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013

**Oil / lubricants**

**Code no.**

POE lubricant, 215PZ(PL46HB), 1 litre can	120Z0648
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
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**Miscellaneous accessories**

**Code no.**

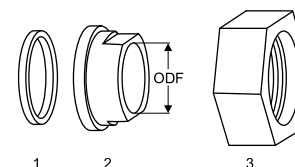
Acoustic hood	120Z5083
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**Spare parts**

**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

**Gaskets, sleeves and nuts**



- 1: Gasket
- 2: Solder sleeve
- 3: Rotolock nut

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R22**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	

**Cooling capacity in W**

16	5 198	6 245	7 447	8 850	-	-	-	-	-
20	4 997	6 028	7 205	8 575	10 180	-	-	-	-
30	4 506	5 495	6 608	7 892	9 392	11 152	13 209	-	-
40	3 998	4 942	5 989	7 186	8 579	10 213	12 130	-	-
50	-	4 329	5 307	6 415	7 700	9 207	10 982	-	-
60	-	-	-	5 540	6 714	8 093	9 723	-	-
68	-	-	-	-	-	7 096	8 611	-	-

**Power input in W**

16	1 268	1 337	1 394	1 440	-	-	-	-	-
20	1 433	1 494	1 545	1 586	1 617	-	-	-	-
30	1 819	1 866	1 904	1 932	1 953	1 965	1 968	-	-
40	2 226	2 261	2 289	2 309	2 322	2 328	2 328	-	-
50	-	2 750	2 771	2 786	2 795	2 798	2 796	-	-
60	-	-	-	3 432	3 440	3 444	3 444	-	-
68	-	-	-	-	-	4 133	4 137	-	-

**Current consumption in A**

16	6.78	7.15	7.45	7.70	-	-	-	-	-
20	7.66	7.99	8.26	8.48	8.64	-	-	-	-
30	9.73	9.98	10.18	10.33	10.44	10.51	10.53	-	-
40	11.90	12.09	12.24	12.35	12.42	12.45	12.45	-	-
50	-	14.71	14.82	14.90	14.95	14.96	14.95	-	-
60	-	-	-	18.35	18.39	18.42	18.41	-	-
68	-	-	-	-	-	22.10	22.12	-	-

**Mass flow in kg/h**

16	96	116	138	164	-	-	-	-	-
20	96	116	138	164	194	-	-	-	-
30	96	116	138	163	192	226	264	-	-
40	92	113	135	160	190	223	261	-	-
50	-	106	129	156	185	219	258	-	-
60	-	-	-	148	179	213	253	-	-
68	-	-	-	-	-	207	247	-	-

**Coefficient of performance (C.O.P.)**

16	4.10	4.67	5.34	6.15	-	-	-	-	-
20	3.49	4.03	4.66	5.41	6.30	-	-	-	-
30	2.48	2.95	3.47	4.08	4.81	5.68	6.71	-	-
40	1.80	2.19	2.62	3.11	3.69	4.39	5.21	-	-
50	-	1.57	1.92	2.30	2.75	3.29	3.93	-	-
60	-	-	-	1.61	1.95	2.35	2.82	-	-
68	-	-	-	-	-	1.72	2.08	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 659	W
Power input	2 514	W
Current consumption	13.44	A
Mass flow	133	kg/h
C.O.P.	2.25	

**Pressure switch settings**

Maximum HP switch setting	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R22**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	

**Cooling capacity in W**

16	5 071	6 112	7 312	8 720	-	-	-	-	-
20	4 888	5 912	7 087	8 460	10 081	-	-	-	-
30	4 441	5 423	6 532	7 817	9 325	11 107	13 209	-	-
40	-	4 914	5 956	7 150	8 544	10 188	12 130	-	-
50	-	-	-	6 419	7 698	9 202	10 982	-	-
60	-	-	-	-	6 745	8 108	9 723	-	-
68	-	-	-	-	-	-	8 611	-	-

**Power input in W**

16	1 268	1 337	1 394	1 440	-	-	-	-	-
20	1 433	1 494	1 545	1 586	1 617	-	-	-	-
30	1 819	1 866	1 904	1 932	1 953	1 965	1 968	-	-
40	-	2 261	2 289	2 309	2 322	2 328	2 328	-	-
50	-	-	-	2 786	2 795	2 798	2 796	-	-
60	-	-	-	-	3 440	3 444	3 444	-	-
68	-	-	-	-	-	-	4 137	-	-

**Current consumption in A**

16	6.78	7.15	7.45	7.70	-	-	-	-	-
20	7.66	7.99	8.26	8.48	8.64	-	-	-	-
30	9.73	9.98	10.18	10.33	10.44	10.51	10.53	-	-
40	-	12.09	12.24	12.35	12.42	12.45	12.45	-	-
50	-	-	-	14.90	14.95	14.96	14.95	-	-
60	-	-	-	-	18.39	18.42	18.41	-	-
68	-	-	-	-	-	-	22.12	-	-

**Mass flow in kg/h**

16	84	104	126	153	-	-	-	-	-
20	85	104	126	153	185	-	-	-	-
30	85	104	126	152	183	220	264	-	-
40	-	101	124	150	181	218	261	-	-
50	-	-	-	145	177	214	258	-	-
60	-	-	-	-	170	208	253	-	-
68	-	-	-	-	-	-	247	-	-

**Coefficient of performance (C.O.P.)**

16	4.00	4.57	5.25	6.06	-	-	-	-	-
20	3.41	3.96	4.59	5.33	6.24	-	-	-	-
30	2.44	2.91	3.43	4.04	4.78	5.65	6.71	-	-
40	-	2.17	2.60	3.10	3.68	4.38	5.21	-	-
50	-	-	-	2.30	2.75	3.29	3.93	-	-
60	-	-	-	-	1.96	2.35	2.82	-	-
68	-	-	-	-	-	-	2.08	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 647	W
Power input	2 514	W
Current consumption	13.44	A
Mass flow	121	kg/h
C.O.P.	2.25	

**Pressure switch settings**

Maximum HP switch setting	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R22**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	

**Cooling capacity in W**

16	5 882	7 326	8 892	10 643	-	-	-	-	-
20	5 644	7 071	8 613	10 332	12 290	-	-	-	-
30	5 047	6 419	7 888	9 516	11 367	13 497	15 961	-	-
40	4 444	5 743	7 120	8 641	10 366	12 357	14 670	-	-
50	-	5 040	6 308	7 702	9 285	11 119	13 264	-	-
60	-	-	-	6 697	8 120	9 781	11 741	-	-
68	-	-	-	-	-	8 635	10 435	-	-

**Power input in W**

16	1 813	1 805	1 809	1 827	-	-	-	-	-
20	1 942	1 941	1 951	1 970	1 997	-	-	-	-
30	2 299	2 318	2 339	2 362	2 387	2 413	2 440	-	-
40	2 746	2 784	2 818	2 846	2 868	2 884	2 893	-	-
50	-	3 391	3 437	3 470	3 490	3 497	3 489	-	-
60	-	-	-	4 287	4 304	4 301	4 277	-	-
68	-	-	-	-	-	5 118	5 080	-	-

**Current consumption in A**

16	8.05	8.01	8.03	8.11	-	-	-	-	-
20	8.62	8.62	8.66	8.74	8.87	-	-	-	-
30	10.21	10.29	10.38	10.49	10.60	10.71	10.83	-	-
40	12.19	12.36	12.51	12.63	12.73	12.80	12.85	-	-
50	-	15.06	15.26	15.41	15.49	15.52	15.49	-	-
60	-	-	-	19.03	19.11	19.10	18.99	-	-
68	-	-	-	-	-	22.72	22.55	-	-

**Mass flow in kg/h**

16	105	136	168	200	-	-	-	-	-
20	105	136	167	199	235	-	-	-	-
30	103	134	165	197	233	273	319	-	-
40	102	131	161	193	229	270	316	-	-
50	-	128	157	188	223	264	311	-	-
60	-	-	-	181	216	256	303	-	-
68	-	-	-	-	-	249	295	-	-

**Coefficient of performance (C.O.P.)**

16	3.24	4.06	4.91	5.83	-	-	-	-	-
20	2.91	3.64	4.41	5.25	6.15	-	-	-	-
30	2.20	2.77	3.37	4.03	4.76	5.59	6.54	-	-
40	1.62	2.06	2.53	3.04	3.61	4.28	5.07	-	-
50	-	1.49	1.84	2.22	2.66	3.18	3.80	-	-
60	-	-	-	1.56	1.89	2.27	2.75	-	-
68	-	-	-	-	-	1.69	2.05	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 720	W
Power input	3 107	W
Current consumption	13.79	A
Mass flow	159	kg/h
C.O.P.	2.16	

**Pressure switch settings**

Maximum HP switch setting	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R22**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	

**Cooling capacity in W**

16	5 739	7 169	8 730	10 486	-	-	-	-	-
20	5 521	6 935	8 471	10 195	12 171	-	-	-	-
30	4 974	6 335	7 797	9 426	11 286	13 443	15 961	-	-
40	-	5 711	7 082	8 598	10 324	12 327	14 670	-	-
50	-	-	-	7 707	9 283	11 114	13 264	-	-
60	-	-	-	-	8 158	9 800	11 741	-	-
68	-	-	-	-	-	-	10 435	-	-

**Power input in W**

16	1 813	1 805	1 809	1 827	-	-	-	-	-
20	1 942	1 941	1 951	1 970	1 997	-	-	-	-
30	2 299	2 318	2 339	2 362	2 387	2 413	2 440	-	-
40	-	2 784	2 818	2 846	2 868	2 884	2 893	-	-
50	-	-	-	3 470	3 490	3 497	3 489	-	-
60	-	-	-	-	4 304	4 301	4 277	-	-
68	-	-	-	-	-	-	5 080	-	-

**Current consumption in A**

16	8.05	8.01	8.03	8.11	-	-	-	-	-
20	8.62	8.62	8.66	8.74	8.87	-	-	-	-
30	10.21	10.29	10.38	10.49	10.60	10.71	10.83	-	-
40	-	12.36	12.51	12.63	12.73	12.80	12.85	-	-
50	-	-	-	15.41	15.49	15.52	15.49	-	-
60	-	-	-	-	19.11	19.10	18.99	-	-
68	-	-	-	-	-	-	22.55	-	-

**Mass flow in kg/h**

16	92	122	153	187	-	-	-	-	-
20	92	122	153	186	224	-	-	-	-
30	91	120	151	184	222	267	319	-	-
40	-	118	147	180	218	263	316	-	-
50	-	-	-	175	213	257	311	-	-
60	-	-	-	-	206	250	303	-	-
68	-	-	-	-	-	-	295	-	-

**Coefficient of performance (C.O.P.)**

16	3.17	3.97	4.82	5.74	-	-	-	-	-
20	2.84	3.57	4.34	5.18	6.09	-	-	-	-
30	2.16	2.73	3.33	3.99	4.73	5.57	6.54	-	-
40	-	2.05	2.51	3.02	3.60	4.27	5.07	-	-
50	-	-	-	2.22	2.66	3.18	3.80	-	-
60	-	-	-	-	1.90	2.28	2.75	-	-
68	-	-	-	-	-	-	2.05	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 707	W
Power input	3 107	W
Current consumption	13.79	A
Mass flow	145	kg/h
C.O.P.	2.16	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900



**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

22	3 422	4 344	5 390	6 565	7 878	-	-	-	-
30	3 146	4 026	5 040	6 194	7 496	8 952	-	-	-
40	2 790	3 581	4 520	5 612	6 865	8 285	9 879	-	-
50	-	3 123	3 948	4 939	6 103	7 447	8 979	-	-
60	-	-	3 365	4 216	5 252	6 482	7 912	-	-
70	-	-	-	3 485	4 355	5 431	6 720	-	-
73	-	-	-	3 271	4 084	5 106	6 345	-	-

**Power input in W**

22	1 286	1 301	1 329	1 369	1 422	-	-	-	-
30	1 475	1 492	1 518	1 553	1 595	1 647	-	-	-
40	1 743	1 771	1 802	1 837	1 875	1 917	1 963	-	-
50	-	2 098	2 142	2 186	2 228	2 269	2 309	-	-
60	-	-	2 543	2 603	2 657	2 706	2 749	-	-
70	-	-	-	3 093	3 168	3 232	3 286	-	-
73	-	-	-	3 254	3 337	3 408	3 466	-	-

**Current consumption in A**

22	6.87	6.96	7.11	7.32	7.60	-	-	-	-
30	7.89	7.98	8.12	8.30	8.53	8.81	-	-	-
40	9.32	9.47	9.64	9.82	10.03	10.25	10.50	-	-
50	-	11.22	11.46	11.69	11.91	12.13	12.35	-	-
60	-	-	13.60	13.92	14.21	14.47	14.70	-	-
70	-	-	-	16.54	16.94	17.28	17.57	-	-
73	-	-	-	17.40	17.84	18.22	18.54	-	-

**Mass flow in kg/h**

22	74	92	112	134	158	-	-	-	-
30	73	92	112	135	160	188	-	-	-
40	71	90	111	135	161	190	223	-	-
50	-	87	108	132	159	190	224	-	-
60	-	-	105	128	155	186	222	-	-
70	-	-	-	123	150	181	217	-	-
73	-	-	-	121	148	179	215	-	-

**Coefficient of performance (C.O.P.)**

22	2.66	3.34	4.05	4.79	5.54	-	-	-	-
30	2.13	2.70	3.32	3.99	4.70	5.44	-	-	-
40	1.60	2.02	2.51	3.06	3.66	4.32	5.03	-	-
50	-	1.49	1.84	2.26	2.74	3.28	3.89	-	-
60	-	-	1.32	1.62	1.98	2.40	2.88	-	-
70	-	-	-	1.13	1.38	1.68	2.05	-	-
73	-	-	-	1.01	1.22	1.50	1.83	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	3 351	W
Power input	1 928	W
Current consumption	10.31	A
Mass flow	89	kg/h
C.O.P.	1.74	

**Pressure switch settings**

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

22	3 477	4 395	5 431	6 594	7 891	-	-	-	-
30	-	4 101	5 105	6 242	7 521	8 952	-	-	-
40	-	-	4 613	5 684	6 906	8 285	9 833	-	-
50	-	-	4 068	5 034	6 159	7 447	8 908	-	-
60	-	-	-	4 334	5 323	6 482	-	-	-
70	-	-	-	-	4 440	5 431	-	-	-
73	-	-	-	-	4 172	5 106	-	-	-

**Power input in W**

22	1 286	1 301	1 329	1 369	1 422	-	-	-	-
30	-	1 492	1 518	1 553	1 595	1 647	-	-	-
40	-	-	1 802	1 837	1 875	1 917	1 963	-	-
50	-	-	2 142	2 186	2 228	2 269	2 309	-	-
60	-	-	-	2 603	2 657	2 706	-	-	-
70	-	-	-	-	3 168	3 232	-	-	-
73	-	-	-	-	3 337	3 408	-	-	-

**Current consumption in A**

22	6.87	6.96	7.11	7.32	7.60	-	-	-	-
30	-	7.98	8.12	8.30	8.53	8.81	-	-	-
40	-	-	9.64	9.82	10.03	10.25	10.50	-	-
50	-	-	11.46	11.69	11.91	12.13	12.35	-	-
60	-	-	-	13.92	14.21	14.47	-	-	-
70	-	-	-	-	16.94	17.28	-	-	-
73	-	-	-	-	17.84	18.22	-	-	-

**Mass flow in kg/h**

22	66	85	105	128	154	-	-	-	-
30	-	84	105	129	157	188	-	-	-
40	-	-	104	129	157	190	229	-	-
50	-	-	101	126	155	190	230	-	-
60	-	-	-	122	152	186	-	-	-
70	-	-	-	-	146	181	-	-	-
73	-	-	-	-	144	179	-	-	-

**Coefficient of performance (C.O.P.)**

22	2.70	3.38	4.09	4.81	5.55	-	-	-	-
30	-	2.75	3.36	4.02	4.71	5.44	-	-	-
40	-	-	2.56	3.09	3.68	4.32	5.01	-	-
50	-	-	1.90	2.30	2.76	3.28	3.86	-	-
60	-	-	-	1.66	2.00	2.40	-	-	-
70	-	-	-	-	1.40	1.68	-	-	-
73	-	-	-	-	1.25	1.50	-	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

22	4 142	5 266	6 524	7 931	9 502	-	-	-	-
30	3 794	4 873	6 098	7 484	9 044	10 794	-	-	-
40	3 346	4 327	5 468	6 783	8 287	9 994	11 919	-	-
50	-	3 767	4 776	5 973	7 372	8 988	10 836	-	-
60	-	-	4 069	5 100	6 347	7 825	9 548	-	-
70	-	-	-	4 216	5 263	6 554	8 104	-	-
73	-	-	-	3 956	4 933	6 159	7 648	-	-

**Power input in W**

22	1 551	1 580	1 614	1 656	1 708	-	-	-	-
30	1 778	1 807	1 839	1 876	1 920	1 975	-	-	-
40	2 104	2 139	2 174	2 211	2 253	2 302	2 361	-	-
50	-	2 535	2 580	2 624	2 670	2 720	2 778	-	-
60	-	-	3 066	3 125	3 182	3 241	3 304	-	-
70	-	-	-	3 725	3 801	3 876	3 951	-	-
73	-	-	-	3 926	4 009	4 090	4 171	-	-

**Current consumption in A**

22	6.88	7.01	7.17	7.35	7.58	-	-	-	-
30	7.89	8.02	8.16	8.33	8.52	8.77	-	-	-
40	9.34	9.50	9.65	9.82	10.00	10.22	10.48	-	-
50	-	11.25	11.45	11.65	11.85	12.08	12.33	-	-
60	-	-	13.61	13.87	14.13	14.39	14.67	-	-
70	-	-	-	16.54	16.88	17.21	17.54	-	-
73	-	-	-	17.43	17.80	18.16	18.52	-	-

**Mass flow in kg/h**

22	89	111	136	162	190	-	-	-	-
30	88	111	136	164	194	227	-	-	-
40	86	108	134	163	194	230	268	-	-
50	-	105	130	159	192	229	270	-	-
60	-	-	126	154	187	225	267	-	-
70	-	-	-	149	181	219	262	-	-
73	-	-	-	147	179	217	260	-	-

**Coefficient of performance (C.O.P.)**

22	2.67	3.33	4.04	4.79	5.56	-	-	-	-
30	2.13	2.70	3.32	3.99	4.71	5.46	-	-	-
40	1.59	2.02	2.52	3.07	3.68	4.34	5.05	-	-
50	-	1.49	1.85	2.28	2.76	3.30	3.90	-	-
60	-	-	1.33	1.63	1.99	2.41	2.89	-	-
70	-	-	-	1.13	1.38	1.69	2.05	-	-
73	-	-	-	1.01	1.23	1.51	1.83	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	4 046	W
Power input	2 329	W
Current consumption	10.34	A
Mass flow	107	kg/h
C.O.P.	1.74	

**Pressure switch settings**

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R134a

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

Cooling capacity in W

22	4 209	5 327	6 574	7 965	9 518	-	-	-	-
30	-	4 963	6 177	7 542	9 074	10 794	-	-	-
40	-	-	5 581	6 871	8 336	9 994	11 863	-	-
50	-	-	4 921	6 088	7 440	8 988	10 750	-	-
60	-	-	-	5 243	6 433	7 825	-	-	-
70	-	-	-	-	5 365	6 554	-	-	-
73	-	-	-	-	5 040	6 159	-	-	-

Power input in W

22	1 551	1 580	1 614	1 656	1 708	-	-	-	-
30	-	1 807	1 839	1 876	1 920	1 975	-	-	-
40	-	-	2 174	2 211	2 253	2 302	2 361	-	-
50	-	-	2 580	2 624	2 670	2 720	2 778	-	-
60	-	-	-	3 125	3 182	3 241	-	-	-
70	-	-	-	-	3 801	3 876	-	-	-
73	-	-	-	-	4 009	4 090	-	-	-

Current consumption in A

22	6.88	7.01	7.17	7.35	7.58	-	-	-	-
30	-	8.02	8.16	8.33	8.52	8.77	-	-	-
40	-	-	9.65	9.82	10.00	10.22	10.48	-	-
50	-	-	11.45	11.65	11.85	12.08	12.33	-	-
60	-	-	-	13.87	14.13	14.39	-	-	-
70	-	-	-	-	16.88	17.21	-	-	-
73	-	-	-	-	17.80	18.16	-	-	-

Mass flow in kg/h

22	80	102	127	155	186	-	-	-	-
30	-	102	127	156	189	227	-	-	-
40	-	-	125	155	190	230	276	-	-
50	-	-	122	152	188	229	277	-	-
60	-	-	-	148	183	225	-	-	-
70	-	-	-	-	177	219	-	-	-
73	-	-	-	-	175	217	-	-	-

Coefficient of performance (C.O.P.)

22	2.71	3.37	4.07	4.81	5.57	-	-	-	-
30	-	2.75	3.36	4.02	4.73	5.46	-	-	-
40	-	-	2.57	3.11	3.70	4.34	5.02	-	-
50	-	-	1.91	2.32	2.79	3.30	3.87	-	-
60	-	-	-	1.68	2.02	2.41	-	-	-
70	-	-	-	-	1.41	1.69	-	-	-
73	-	-	-	-	1.26	1.51	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Pressure switch settings

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

Sound power data

Sound power level	dB(A)
With acoustic hood	dB(A)

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 043	4 996	6 160	7 557	9 207	-	-	-	-
20	3 581	4 453	5 505	6 759	8 236	9 958	11 946	-	-
30	3 146	3 933	4 868	5 975	7 274	8 787	10 536	12 543	14 828
40	-	3 416	4 232	5 187	6 304	7 604	9 110	10 841	12 821
50	-	-	3 576	4 376	5 306	6 390	7 647	9 100	10 770
60	-	-	-	-	4 263	5 124	6 129	7 299	8 656

**Power input in W**

10	1 274	1 292	1 308	1 323	1 340	-	-	-	-
20	1 615	1 637	1 654	1 669	1 683	1 698	1 713	-	-
30	2 049	2 074	2 092	2 106	2 117	2 125	2 132	2 141	2 151
40	-	2 637	2 655	2 667	2 673	2 674	2 673	2 670	2 667
50	-	-	3 376	3 384	3 385	3 379	3 368	3 353	3 335
60	-	-	-	-	4 286	4 272	4 250	4 222	4 189

**Current consumption in A**

10	9.30	9.03	8.76	8.52	8.29	-	-	-	-
20	9.36	9.26	9.16	9.09	9.02	8.98	8.96	-	-
30	10.00	10.00	10.00	10.01	10.04	10.09	10.15	10.24	10.36
40	-	11.48	11.50	11.53	11.57	11.63	11.70	11.80	11.92
50	-	-	13.90	13.86	13.84	13.83	13.83	13.86	13.91
60	-	-	-	-	17.07	16.91	16.78	16.65	16.56

**Mass flow in kg/h**

10	81	101	126	155	190	-	-	-	-
20	78	99	122	151	185	226	274	-	-
30	76	96	119	147	180	220	268	324	390
40	-	93	116	143	176	215	262	317	381
50	-	-	113	140	172	210	256	310	374
60	-	-	-	-	168	205	250	303	366

**Coefficient of performance (C.O.P.)**

10	3.17	3.87	4.71	5.71	6.87	-	-	-	-
20	2.22	2.72	3.33	4.05	4.89	5.87	6.97	-	-
30	1.54	1.90	2.33	2.84	3.44	4.14	4.94	5.86	6.89
40	-	1.30	1.59	1.95	2.36	2.84	3.41	4.06	4.81
50	-	-	1.06	1.29	1.57	1.89	2.27	2.71	3.23
60	-	-	-	-	0.99	1.20	1.44	1.73	2.07

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 810	W
Power input	3 007	W
Current consumption	12.60	A
Mass flow	174	kg/h
C.O.P.	1.93	


**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 886	4 835	6 003	7 411	9 084	-	-	-	-
20	3 368	4 229	5 278	6 539	8 037	9 795	11 833	-	-
30	2 877	3 645	4 572	5 682	7 000	8 553	10 362	12 449	14 828
40	2 395	3 065	3 865	4 819	5 955	7 297	8 873	10 707	12 821
50	-	-	3 137	3 932	4 880	6 009	7 348	8 925	10 770
60	-	-	-	-	3 751	4 662	5 760	7 078	8 656

**Power input in W**

10	1 274	1 292	1 308	1 323	1 340	-	-	-	-
20	1 615	1 637	1 654	1 669	1 683	1 698	1 713	-	-
30	2 049	2 074	2 092	2 106	2 117	2 125	2 132	2 141	2 151
40	2 610	2 637	2 655	2 667	2 673	2 674	2 673	2 670	2 667
50	-	-	3 376	3 384	3 385	3 379	3 368	3 353	3 335
60	-	-	-	-	4 286	4 272	4 250	4 222	4 189

**Current consumption in A**

10	9.30	9.03	8.76	8.52	8.29	-	-	-	-
20	9.36	9.26	9.16	9.09	9.02	8.98	8.96	-	-
30	10.00	10.00	10.00	10.01	10.04	10.09	10.15	10.24	10.36
40	11.47	11.48	11.50	11.53	11.57	11.63	11.70	11.80	11.92
50	-	-	13.90	13.86	13.84	13.83	13.83	13.86	13.91
60	-	-	-	-	17.07	16.91	16.78	16.65	16.56

**Mass flow in kg/h**

10	96	119	144	174	209	-	-	-	-
20	93	115	141	170	204	244	289	-	-
30	91	112	137	166	199	238	283	333	390
40	88	109	133	161	194	232	276	326	381
50	-	-	130	157	190	227	270	319	374
60	-	-	-	-	185	222	264	312	366

**Coefficient of performance (C.O.P.)**

10	3.05	3.74	4.59	5.60	6.78	-	-	-	-
20	2.09	2.58	3.19	3.92	4.77	5.77	6.91	-	-
30	1.40	1.76	2.18	2.70	3.31	4.03	4.86	5.82	6.89
40	0.92	1.16	1.46	1.81	2.23	2.73	3.32	4.01	4.81
50	-	-	0.93	1.16	1.44	1.78	2.18	2.66	3.23
60	-	-	-	-	0.88	1.09	1.36	1.68	2.07

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 422	W
Power input	3 007	W
Current consumption	12.60	A
Mass flow	192	kg/h
C.O.P.	1.80	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 999	6 196	7 659	9 393	11 403	-	-	-	-
20	4 553	5 620	6 927	8 479	10 280	12 334	14 648	-	-
30	4 081	5 018	6 168	7 536	9 127	10 945	12 996	15 284	17 812
40	-	4 358	5 350	6 534	7 913	9 494	11 281	13 280	15 493
50	-	-	4 442	5 441	6 609	7 951	9 474	11 183	13 081
60	-	-	-	-	5 182	6 286	7 545	8 963	10 547

**Power input in W**

10	1 570	1 592	1 613	1 633	1 650	-	-	-	-
20	1 953	1 984	2 013	2 037	2 056	2 069	2 075	-	-
30	2 426	2 469	2 506	2 537	2 559	2 573	2 576	2 568	2 548
40	-	3 066	3 115	3 153	3 181	3 196	3 199	3 188	3 161
50	-	-	3 858	3 906	3 940	3 960	3 964	3 951	3 920
60	-	-	-	-	4 858	4 884	4 891	4 878	4 845

**Current consumption in A**

10	6.97	7.07	7.16	7.25	7.33	-	-	-	-
20	8.67	8.81	8.93	9.04	9.13	9.19	9.21	-	-
30	10.77	10.96	11.13	11.26	11.36	11.42	11.44	11.40	11.31
40	-	13.61	13.83	14.00	14.12	14.19	14.20	14.15	14.04
50	-	-	17.13	17.34	17.49	17.58	17.60	17.54	17.40
60	-	-	-	-	21.57	21.68	21.71	21.66	21.51

**Mass flow in kg/h**

10	91	121	154	192	236	-	-	-	-
20	95	123	154	190	232	281	338	-	-
30	95	122	153	188	228	276	332	397	473
40	-	119	149	183	223	270	326	390	465
50	-	-	142	176	216	263	318	383	458
60	-	-	-	-	207	254	310	375	450

**Coefficient of performance (C.O.P.)**

10	3.18	3.89	4.75	5.75	6.91	-	-	-	-
20	2.33	2.83	3.44	4.16	5.00	5.96	7.06	-	-
30	1.68	2.03	2.46	2.97	3.57	4.25	5.04	5.95	6.99
40	-	1.42	1.72	2.07	2.49	2.97	3.53	4.17	4.90
50	-	-	1.15	1.39	1.68	2.01	2.39	2.83	3.34
60	-	-	-	-	1.07	1.29	1.54	1.84	2.18

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	7 274	W
Power input	3 542	W
Current consumption	15.72	A
Mass flow	220	kg/h
C.O.P.	2.05	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 803	5 996	7 463	9 212	11 250	-	-	-	-
20	4 281	5 337	6 642	8 203	10 032	12 132	14 509	-	-
30	3 732	4 651	5 792	7 166	8 783	10 652	12 780	15 169	17 812
40	3 128	3 910	4 886	6 070	7 475	9 111	10 989	13 116	15 493
50	-	-	3 897	4 889	6 078	7 478	9 104	10 968	13 081
60	-	-	-	-	4 560	5 719	7 090	8 692	10 547

**Power input in W**

10	1 570	1 592	1 613	1 633	1 650	-	-	-	-
20	1 953	1 984	2 013	2 037	2 056	2 069	2 075	-	-
30	2 426	2 469	2 506	2 537	2 559	2 573	2 576	2 568	2 548
40	3 010	3 066	3 115	3 153	3 181	3 196	3 199	3 188	3 161
50	-	-	3 858	3 906	3 940	3 960	3 964	3 951	3 920
60	-	-	-	-	4 858	4 884	4 891	4 878	4 845

**Current consumption in A**

10	6.97	7.07	7.16	7.25	7.33	-	-	-	-
20	8.67	8.81	8.93	9.04	9.13	9.19	9.21	-	-
30	10.77	10.96	11.13	11.26	11.36	11.42	11.44	11.40	11.31
40	13.36	13.61	13.83	14.00	14.12	14.19	14.20	14.15	14.04
50	-	-	17.13	17.34	17.49	17.58	17.60	17.54	17.40
60	-	-	-	-	21.57	21.68	21.71	21.66	21.51

**Mass flow in kg/h**

10	109	142	177	216	260	-	-	-	-
20	113	144	177	215	257	304	357	-	-
30	114	143	175	211	252	298	351	409	473
40	111	139	171	206	246	292	344	402	465
50	-	-	163	198	238	284	336	394	458
60	-	-	-	-	228	275	327	386	450

**Coefficient of performance (C.O.P.)**

10	3.06	3.77	4.63	5.64	6.82	-	-	-	-
20	2.19	2.69	3.30	4.03	4.88	5.86	6.99	-	-
30	1.54	1.88	2.31	2.82	3.43	4.14	4.96	5.91	6.99
40	1.04	1.27	1.57	1.93	2.35	2.85	3.44	4.11	4.90
50	-	-	1.01	1.25	1.54	1.89	2.30	2.78	3.34
60	-	-	-	-	0.94	1.17	1.45	1.78	2.18

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 789	W
Power input	3 542	W
Current consumption	15.72	A
Mass flow	243	kg/h
C.O.P.	1.92	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900



**Performance data at 50 Hz, EN 12900 rating conditions**
**R407A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 027	5 087	6 358	7 867	-	-	-	-	-
20	3 579	4 580	5 774	7 187	8 846	10 777	-	-	-
30	3 096	4 026	5 131	6 436	7 968	9 754	11 821	14 194	-
40	2 585	3 432	4 435	5 620	7 014	8 642	10 533	12 711	-
45	-	3 123	4 070	5 190	6 510	8 055	9 853	11 930	-
50	-	-	3 695	4 747	5 990	7 449	9 151	11 123	-
55	-	-	-	4 292	5 454	6 824	8 427	10 291	-
60	-	-	-	-	4 904	6 181	7 683	9 435	-

**Power input in W**

10	1 297	1 332	1 362	1 384	-	-	-	-	-
20	1 511	1 551	1 586	1 616	1 640	1 655	-	-	-
30	1 820	1 862	1 902	1 938	1 968	1 992	2 009	2 016	-
40	2 275	2 318	2 360	2 399	2 435	2 466	2 490	2 507	-
45	-	2 615	2 658	2 699	2 736	2 770	2 798	2 819	-
50	-	-	3 011	3 052	3 091	3 127	3 158	3 182	-
55	-	-	-	3 466	3 506	3 543	3 577	3 604	-
60	-	-	-	-	3 987	4 026	4 061	4 091	-

**Current consumption in A**

10	8.66	8.63	8.60	8.56	-	-	-	-	-
20	9.38	9.42	9.45	9.48	9.51	9.55	-	-	-
30	10.10	10.20	10.30	10.38	10.46	10.55	10.64	10.74	-
40	11.33	11.47	11.60	11.73	11.85	11.97	12.09	12.22	-
45	-	12.43	12.58	12.72	12.85	12.99	13.12	13.26	-
50	-	-	13.85	14.00	14.15	14.29	14.43	14.58	-
55	-	-	-	15.64	15.79	15.94	16.09	16.24	-
60	-	-	-	-	17.84	17.99	18.14	18.29	-

**Mass flow in kg/h**

10	78	98	121	147	-	-	-	-	-
20	76	96	119	145	176	211	-	-	-
30	72	92	115	142	173	208	249	295	-
40	67	87	111	138	169	204	245	291	-
45	-	84	108	135	166	201	242	288	-
50	-	-	104	131	162	198	239	285	-
55	-	-	-	128	159	194	235	281	-
60	-	-	-	-	154	190	231	277	-

**Coefficient of performance (C.O.P.)**

10	3.10	3.82	4.67	5.68	-	-	-	-	-
20	2.37	2.95	3.64	4.45	5.39	6.51	-	-	-
30	1.70	2.16	2.70	3.32	4.05	4.90	5.88	7.04	-
40	1.14	1.48	1.88	2.34	2.88	3.50	4.23	5.07	-
45	-	1.19	1.53	1.92	2.38	2.91	3.52	4.23	-
50	-	-	1.23	1.56	1.94	2.38	2.90	3.50	-
55	-	-	-	1.24	1.56	1.93	2.36	2.86	-
60	-	-	-	-	1.23	1.54	1.89	2.31	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 190	W
Power input	2 699	W
Current consumption	12.72	A
Mass flow	135	kg/h
C.O.P.	1.92	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 50 Hz, ARI rating conditions

R407A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	4 277	5 397	6 740	8 331	-	-	-	-	-
20	3 829	4 895	6 164	7 664	9 423	11 469	-	-	-
30	3 343	4 342	5 526	6 922	8 560	10 466	12 669	15 196	-
40	2 827	3 746	4 832	6 114	7 618	9 373	11 407	13 749	-
45	-	3 435	4 468	5 687	7 120	8 796	10 742	12 986	-
50	-	-	4 092	5 247	6 606	8 200	10 056	12 202	-
55	-	-	-	4 795	6 079	7 588	9 352	11 397	-
60	-	-	-	-	-	6 963	8 633	10 578	-

Power input in W

10	1 297	1 332	1 362	1 384	-	-	-	-	-
20	1 511	1 551	1 586	1 616	1 640	1 655	-	-	-
30	1 820	1 862	1 902	1 938	1 968	1 992	2 009	2 016	-
40	2 275	2 318	2 360	2 399	2 435	2 466	2 490	2 507	-
45	-	2 615	2 658	2 699	2 736	2 770	2 798	2 819	-
50	-	-	3 011	3 052	3 091	3 127	3 158	3 182	-
55	-	-	-	3 466	3 506	3 543	3 577	3 604	-
60	-	-	-	-	-	4 026	4 061	4 091	-

Current consumption in A

10	8.66	8.63	8.60	8.56	-	-	-	-	-
20	9.38	9.42	9.45	9.48	9.51	9.55	-	-	-
30	10.10	10.20	10.30	10.38	10.46	10.55	10.64	10.74	-
40	11.33	11.47	11.60	11.73	11.85	11.97	12.09	12.22	-
45	-	12.43	12.58	12.72	12.85	12.99	13.12	13.26	-
50	-	-	13.85	14.00	14.15	14.29	14.43	14.58	-
55	-	-	-	15.64	15.79	15.94	16.09	16.24	-
60	-	-	-	-	-	17.99	18.14	18.29	-

Mass flow in kg/h

10	78	97	120	146	-	-	-	-	-
20	76	95	118	144	175	210	-	-	-
30	72	92	115	141	172	207	247	293	-
40	67	87	110	137	168	203	243	289	-
45	-	84	107	134	165	200	240	286	-
50	-	-	104	131	161	197	237	283	-
55	-	-	-	127	158	193	233	279	-
60	-	-	-	-	-	189	229	275	-

Coefficient of performance (C.O.P.)

10	3.30	4.05	4.95	6.02	-	-	-	-	-
20	2.53	3.16	3.89	4.74	5.75	6.93	-	-	-
30	1.84	2.33	2.91	3.57	4.35	5.25	6.31	7.54	-
40	1.24	1.62	2.05	2.55	3.13	3.80	4.58	5.48	-
45	-	1.31	1.68	2.11	2.60	3.18	3.84	4.61	-
50	-	-	1.36	1.72	2.14	2.62	3.18	3.83	-
55	-	-	-	1.38	1.73	2.14	2.61	3.16	-
60	-	-	-	-	-	1.73	2.13	2.59	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 687	W
Power input	2 699	W
Current consumption	12.72	A
Mass flow	134	kg/h
C.O.P.	2.11	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

30	-	2 806	3 706	4 751	5 972	7 399	9 065	10 999	13 234
35	-	2 606	3 474	4 479	5 653	7 027	8 631	10 496	12 654
40	-	2 409	3 239	4 200	5 321	6 635	8 171	9 961	12 036
45	-	-	2 999	3 908	4 971	6 219	7 682	9 391	11 377
50	-	-	-	3 601	4 601	5 777	7 160	8 782	10 673
55	-	-	-	-	4 205	5 304	6 602	8 130	9 919
60	-	-	-	-	-	4 797	6 004	7 432	9 113
65	-	-	-	-	-	-	5 361	6 683	8 248

**Power input in W**

30	-	1 967	1 932	1 908	1 889	1 868	1 838	1 793	1 726
35	-	2 178	2 142	2 120	2 104	2 087	2 063	2 025	1 966
40	-	2 407	2 368	2 344	2 327	2 311	2 289	2 255	2 201
45	-	-	2 625	2 595	2 574	2 556	2 533	2 499	2 446
50	-	-	-	2 888	2 860	2 836	2 808	2 771	2 717
55	-	-	-	-	3 199	3 165	3 130	3 086	3 027
60	-	-	-	-	-	3 559	3 513	3 459	3 392
65	-	-	-	-	-	-	3 971	3 904	3 825

**Current consumption in A**

30	-	9.57	9.11	9.08	9.27	9.44	9.38	8.87	7.68
35	-	11.82	10.87	10.49	10.45	10.53	10.50	10.16	9.27
40	-	13.97	12.49	11.71	11.41	11.35	11.32	11.10	10.47
45	-	-	14.25	13.03	12.42	12.18	12.11	11.97	11.55
50	-	-	-	14.71	13.75	13.30	13.14	13.05	12.80
55	-	-	-	-	15.68	14.97	14.69	14.60	14.49
60	-	-	-	-	-	17.48	17.02	16.90	16.88
65	-	-	-	-	-	-	20.42	20.22	20.25

**Mass flow in kg/h**

30	-	63	82	103	127	155	187	223	264
35	-	62	80	102	126	154	186	223	264
40	-	60	79	100	125	153	185	222	264
45	-	-	78	99	123	151	183	220	262
50	-	-	-	97	121	149	181	218	260
55	-	-	-	-	118	146	178	214	257
60	-	-	-	-	-	141	173	210	252
65	-	-	-	-	-	-	167	204	245

**Coefficient of performance (C.O.P.)**

30	-	1.43	1.92	2.49	3.16	3.96	4.93	6.13	7.67
35	-	1.20	1.62	2.11	2.69	3.37	4.18	5.18	6.44
40	-	1.00	1.37	1.79	2.29	2.87	3.57	4.42	5.47
45	-	-	1.14	1.51	1.93	2.43	3.03	3.76	4.65
50	-	-	-	1.25	1.61	2.04	2.55	3.17	3.93
55	-	-	-	-	1.31	1.68	2.11	2.63	3.28
60	-	-	-	-	-	1.35	1.71	2.15	2.69
65	-	-	-	-	-	-	1.35	1.71	2.16

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	4 971	W
Power input	2 574	W
Current consumption	12.42	A
Mass flow	123	kg/h
C.O.P.	1.93	

**Pressure switch settings**

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 50 Hz,

R407C

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Power input in W

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Current consumption in A

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

Nominal performance at to = °C, tc = °C

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

Pressure switch settings

Maximum HP switch setting	30	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = °C , Subcooling = K

Tolerance according EN12900

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Performance data at 50 Hz, EN 12900 rating conditions

R407F

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-23	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	4 732	5 431	6 770	8 350	-	-	-	-	-
20	4 253	4 916	6 181	7 669	9 409	11 427	-	-	-
30	3 729	4 348	5 526	6 909	8 526	10 403	12 568	15 047	-
40	3 167	3 734	4 811	6 077	7 557	9 281	11 273	13 563	-
45	-	-	4 434	5 635	7 043	8 684	10 586	12 776	-
50	-	-	-	5 179	6 510	8 066	9 874	11 961	-
55	-	-	-	-	5 959	7 427	9 137	11 118	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	1 409	1 421	1 446	1 483	-	-	-	-	-
20	1 636	1 650	1 671	1 696	1 733	1 790	-	-	-
30	1 970	1 994	2 022	2 043	2 068	2 103	2 158	2 241	-
40	2 445	2 484	2 529	2 559	2 581	2 604	2 638	2 690	-
45	-	-	2 852	2 889	2 915	2 936	2 963	3 003	-
50	-	-	-	3 274	3 305	3 327	3 350	3 381	-
55	-	-	-	-	3 756	3 782	3 803	3 828	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	9.23	9.20	9.14	9.08	-	-	-	-	-
20	10.04	10.06	10.08	10.09	10.09	10.10	-	-	-
30	10.86	10.92	11.00	11.07	11.14	11.20	11.27	11.35	-
40	12.22	12.31	12.43	12.54	12.65	12.75	12.86	12.98	-
45	-	-	13.49	13.62	13.74	13.86	13.98	14.12	-
50	-	-	-	15.01	15.14	15.27	15.41	15.55	-
55	-	-	-	-	16.92	17.05	17.19	17.34	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	83	94	116	141	-	-	-	-	-
20	80	92	114	140	169	203	-	-	-
30	77	89	111	137	166	200	239	283	-
40	72	84	106	132	162	196	235	279	-
45	-	-	103	129	159	193	232	276	-
50	-	-	-	126	155	189	228	272	-
55	-	-	-	-	151	186	224	268	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.36	3.82	4.68	5.63	-	-	-	-	-
20	2.60	2.98	3.70	4.52	5.43	6.38	-	-	-
30	1.89	2.18	2.73	3.38	4.12	4.95	5.82	6.72	-
40	1.30	1.50	1.90	2.37	2.93	3.56	4.27	5.04	-
45	-	-	1.55	1.95	2.42	2.96	3.57	4.25	-
50	-	-	-	1.58	1.97	2.42	2.95	3.54	-
55	-	-	-	-	1.59	1.96	2.40	2.90	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	5 635	W
Power input	2 889	W
Current consumption	13.62	A
Mass flow	129	kg/h
C.O.P.	1.95	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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Performance data at 50 Hz, ARI rating conditions

R407F

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-23	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	5 001	5 737	7 146	8 809	-	-	-	-	-
20	4 522	5 224	6 563	8 137	9 975	12 105	-	-	-
30	3 995	4 655	5 910	7 383	9 102	11 096	13 393	16 023	-
40	-	4 037	5 196	6 554	8 142	9 988	12 120	14 567	-
45	-	-	4 817	6 115	7 632	9 399	11 445	13 797	-
50	-	-	-	5 659	7 104	8 790	10 746	13 001	-
55	-	-	-	-	-	8 163	10 028	12 185	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	1 409	1 421	1 446	1 483	-	-	-	-	-
20	1 636	1 650	1 671	1 696	1 733	1 790	-	-	-
30	1 970	1 994	2 022	2 043	2 068	2 103	2 158	2 241	-
40	-	2 484	2 529	2 559	2 581	2 604	2 638	2 690	-
45	-	-	2 852	2 889	2 915	2 936	2 963	3 003	-
50	-	-	-	3 274	3 305	3 327	3 350	3 381	-
55	-	-	-	-	-	3 782	3 803	3 828	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	9.23	9.20	9.14	9.08	-	-	-	-	-
20	10.04	10.06	10.08	10.09	10.09	10.10	-	-	-
30	10.86	10.92	11.00	11.07	11.14	11.20	11.27	11.35	-
40	-	12.31	12.43	12.54	12.65	12.75	12.86	12.98	-
45	-	-	13.49	13.62	13.74	13.86	13.98	14.12	-
50	-	-	-	15.01	15.14	15.27	15.41	15.55	-
55	-	-	-	-	-	17.05	17.19	17.34	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	82	94	115	140	-	-	-	-	-
20	80	91	113	139	168	202	-	-	-
30	76	88	110	136	165	199	238	281	-
40	-	83	105	131	161	195	233	277	-
45	-	-	103	128	158	192	230	274	-
50	-	-	-	125	154	188	227	271	-
55	-	-	-	-	-	184	223	267	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.55	4.04	4.94	5.94	-	-	-	-	-
20	2.76	3.17	3.93	4.80	5.76	6.76	-	-	-
30	2.03	2.34	2.92	3.61	4.40	5.28	6.21	7.15	-
40	-	1.63	2.05	2.56	3.15	3.83	4.59	5.42	-
45	-	-	1.69	2.12	2.62	3.20	3.86	4.59	-
50	-	-	-	1.73	2.15	2.64	3.21	3.85	-
55	-	-	-	-	-	2.16	2.64	3.18	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	6 115	W
Power input	2 889	W
Current consumption	13.62	A
Mass flow	128	kg/h
C.O.P.	2.12	

Pressure switch settings

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	67	dB(A)
With acoustic hood	59	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

**R448A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 296	4 174	5 233	6 499	7 998	-	-	-	-
20	2 977	3 830	4 843	6 042	7 454	9 106	11 024	-	-
30	-	-	4 366	5 475	6 776	8 297	10 063	12 102	14 439
40	-	-	-	4 825	5 992	7 357	8 948	10 791	12 911
50	-	-	-	-	5 129	6 316	7 707	9 330	11 211
60	-	-	-	-	-	-	6 369	7 748	9 365

**Power input in W**

10	1 368	1 391	1 403	1 412	1 426	-	-	-	-
20	1 624	1 659	1 677	1 685	1 693	1 707	1 736	-	-
30	-	-	2 046	2 053	2 053	2 053	2 062	2 088	2 139
40	-	-	-	2 572	2 563	2 548	2 536	2 534	2 551
50	-	-	-	-	3 283	3 252	3 217	3 187	3 169
60	-	-	-	-	-	-	4 163	4 102	4 048

**Current consumption in A**

10	8.73	8.75	8.74	8.71	8.69	-	-	-	-
20	9.30	9.37	9.40	9.41	9.42	9.46	9.53	-	-
30	-	-	10.59	10.60	10.59	10.60	10.65	10.76	10.95
40	-	-	-	12.57	12.50	12.45	12.42	12.44	12.54
50	-	-	-	-	15.47	15.30	15.15	15.04	15.00
60	-	-	-	-	-	-	19.15	18.87	18.64

**Mass flow in kg/h**

10	54	69	86	108	133	-	-	-	-
20	52	67	86	107	133	163	200	-	-
30	-	-	83	105	131	161	198	241	291
40	-	-	-	101	127	157	193	236	286
50	-	-	-	-	121	150	186	228	277
60	-	-	-	-	-	-	176	217	265

**Coefficient of performance (C.O.P.)**

10	2.41	3.00	3.73	4.60	5.61	-	-	-	-
20	1.83	2.31	2.89	3.58	4.40	5.33	6.35	-	-
30	-	-	2.13	2.67	3.30	4.04	4.88	5.80	6.75
40	-	-	-	1.88	2.34	2.89	3.53	4.26	5.06
50	-	-	-	-	1.56	1.94	2.40	2.93	3.54
60	-	-	-	-	-	-	1.53	1.89	2.31

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 568	W
Power input	2 893	W
Current consumption	13.84	A
Mass flow	124	kg/h
C.O.P.	1.92	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R448A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 309	4 195	5 262	6 539	8 049	-	-	-	-
20	2 951	3 805	4 823	6 030	7 453	9 117	11 045	-	-
30	2 555	3 354	4 296	5 409	6 720	8 255	10 040	12 095	14 439
40	-	-	3 712	4 706	5 881	7 263	8 880	10 756	12 911
50	-	-	-	3 952	4 967	6 171	7 595	9 267	11 211
60	-	-	-	-	4 005	5 008	6 215	7 657	9 365

**Power input in W**

10	1 368	1 391	1 403	1 412	1 426	-	-	-	-
20	1 624	1 659	1 677	1 685	1 693	1 707	1 736	-	-
30	1 977	2 023	2 046	2 053	2 053	2 053	2 062	2 088	2 139
40	-	-	2 568	2 572	2 563	2 548	2 536	2 534	2 551
50	-	-	-	3 301	3 283	3 252	3 217	3 187	3 169
60	-	-	-	-	4 269	4 221	4 163	4 102	4 048

**Current consumption in A**

10	8.73	8.75	8.74	8.71	8.69	-	-	-	-
20	9.30	9.37	9.40	9.41	9.42	9.46	9.53	-	-
30	10.48	10.56	10.59	10.60	10.59	10.60	10.65	10.76	10.95
40	-	-	12.62	12.57	12.50	12.45	12.42	12.44	12.54
50	-	-	-	15.65	15.47	15.30	15.15	15.04	15.00
60	-	-	-	-	19.82	19.48	19.15	18.87	18.64

**Mass flow in kg/h**

10	63	80	99	120	146	-	-	-	-
20	62	78	98	120	146	176	210	-	-
30	59	76	95	118	143	174	208	247	291
40	-	-	91	113	139	169	203	242	286
50	-	-	-	107	132	162	196	234	277
60	-	-	-	-	124	152	185	223	265

**Coefficient of performance (C.O.P.)**

10	2.42	3.02	3.75	4.63	5.65	-	-	-	-
20	1.82	2.29	2.88	3.58	4.40	5.34	6.36	-	-
30	1.29	1.66	2.10	2.63	3.27	4.02	4.87	5.79	6.75
40	-	-	1.45	1.83	2.29	2.85	3.50	4.24	5.06
50	-	-	-	1.20	1.51	1.90	2.36	2.91	3.54
60	-	-	-	-	0.94	1.19	1.49	1.87	2.31

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 431	W
Power input	2 893	W
Current consumption	13.84	A
Mass flow	136	kg/h
C.O.P.	1.88	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900



Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

**R449A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 296	4 174	5 233	6 499	7 998	-	-	-	-
20	2 977	3 830	4 843	6 042	7 454	9 106	11 024	-	-
30	-	-	4 366	5 475	6 776	8 297	10 063	12 102	14 439
40	-	-	-	4 825	5 992	7 357	8 948	10 791	12 911
50	-	-	-	-	5 129	6 316	7 707	9 330	11 211
60	-	-	-	-	-	-	6 369	7 748	9 365

**Power input in W**

10	1 368	1 391	1 403	1 412	1 426	-	-	-	-
20	1 624	1 659	1 677	1 685	1 693	1 707	1 736	-	-
30	-	-	2 046	2 053	2 053	2 053	2 062	2 088	2 139
40	-	-	-	2 572	2 563	2 548	2 536	2 534	2 551
50	-	-	-	-	3 283	3 252	3 217	3 187	3 169
60	-	-	-	-	-	-	4 163	4 102	4 048

**Current consumption in A**

10	8.73	8.75	8.74	8.71	8.69	-	-	-	-
20	9.30	9.37	9.40	9.41	9.42	9.46	9.53	-	-
30	-	-	10.59	10.60	10.59	10.60	10.65	10.76	10.95
40	-	-	-	12.57	12.50	12.45	12.42	12.44	12.54
50	-	-	-	-	15.47	15.30	15.15	15.04	15.00
60	-	-	-	-	-	-	19.15	18.87	18.64

**Mass flow in kg/h**

10	54	69	86	108	133	-	-	-	-
20	52	67	86	107	133	163	200	-	-
30	-	-	83	105	131	161	198	241	291
40	-	-	-	101	127	157	193	236	286
50	-	-	-	-	121	150	186	228	277
60	-	-	-	-	-	-	176	217	265

**Coefficient of performance (C.O.P.)**

10	2.41	3.00	3.73	4.60	5.61	-	-	-	-
20	1.83	2.31	2.89	3.58	4.40	5.33	6.35	-	-
30	-	-	2.13	2.67	3.30	4.04	4.88	5.80	6.75
40	-	-	-	1.88	2.34	2.89	3.53	4.26	5.06
50	-	-	-	-	1.56	1.94	2.40	2.93	3.54
60	-	-	-	-	-	-	1.53	1.89	2.31

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 568	W
Power input	2 893	W
Current consumption	13.84	A
Mass flow	124	kg/h
C.O.P.	1.92	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R449A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 302	4 187	5 254	6 531	8 042	-	-	-	-
20	2 944	3 797	4 814	6 021	7 444	9 109	11 039	-	-
30	2 548	3 345	4 286	5 399	6 711	8 247	10 033	12 091	14 439
40	-	-	3 702	4 696	5 871	7 255	8 873	10 752	12 911
50	-	-	-	3 942	4 957	6 162	7 588	9 262	11 211
60	-	-	-	-	3 995	4 999	6 208	7 652	9 365

**Power input in W**

10	1 368	1 391	1 403	1 412	1 426	-	-	-	-
20	1 624	1 659	1 677	1 685	1 693	1 707	1 736	-	-
30	1 977	2 023	2 046	2 053	2 053	2 053	2 062	2 088	2 139
40	-	-	2 568	2 572	2 563	2 548	2 536	2 534	2 551
50	-	-	-	3 301	3 283	3 252	3 217	3 187	3 169
60	-	-	-	-	4 269	4 221	4 163	4 102	4 048

**Current consumption in A**

10	8.73	8.75	8.74	8.71	8.69	-	-	-	-
20	9.30	9.37	9.40	9.41	9.42	9.46	9.53	-	-
30	10.48	10.56	10.59	10.60	10.59	10.60	10.65	10.76	10.95
40	-	-	12.62	12.57	12.50	12.45	12.42	12.44	12.54
50	-	-	-	15.65	15.47	15.30	15.15	15.04	15.00
60	-	-	-	-	19.82	19.48	19.15	18.87	18.64

**Mass flow in kg/h**

10	63	80	99	120	146	-	-	-	-
20	62	78	98	120	146	176	210	-	-
30	59	76	95	118	144	174	208	247	291
40	-	-	91	113	139	169	203	242	286
50	-	-	-	107	132	162	196	234	277
60	-	-	-	-	124	152	185	223	265

**Coefficient of performance (C.O.P.)**

10	2.41	3.01	3.75	4.63	5.64	-	-	-	-
20	1.81	2.29	2.87	3.57	4.40	5.34	6.36	-	-
30	1.29	1.65	2.10	2.63	3.27	4.02	4.87	5.79	6.75
40	-	-	1.44	1.83	2.29	2.85	3.50	4.24	5.06
50	-	-	-	1.19	1.51	1.90	2.36	2.91	3.54
60	-	-	-	-	0.94	1.18	1.49	1.87	2.31

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 422	W
Power input	2 893	W
Current consumption	13.84	A
Mass flow	136	kg/h
C.O.P.	1.87	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R452A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 625	4 552	5 676	7 017	8 599	-	-	-	-
20	3 271	4 156	5 210	6 454	7 911	9 603	11 553	-	-
30	-	3 726	4 688	5 813	7 124	8 643	10 391	12 393	14 669
40	-	-	4 125	5 109	6 252	7 575	9 101	10 853	12 851
50	-	-	-	-	5 308	6 414	7 696	9 176	10 875
60	-	-	-	-	-	5 173	6 189	7 375	8 754

**Power input in W**

10	1 377	1 386	1 398	1 408	1 414	-	-	-	-
20	1 672	1 682	1 698	1 716	1 734	1 748	1 754	-	-
30	-	2 050	2 062	2 080	2 101	2 121	2 137	2 146	2 145
40	-	-	2 558	2 567	2 583	2 601	2 618	2 632	2 638
50	-	-	-	-	3 246	3 254	3 265	3 274	3 281
60	-	-	-	-	-	4 148	4 143	4 141	4 138

**Current consumption in A**

10	8.66	8.76	8.91	9.09	9.31	-	-	-	-
20	9.32	9.41	9.52	9.67	9.83	10.02	10.22	-	-
30	-	10.49	10.59	10.71	10.84	10.98	11.13	11.27	11.41
40	-	-	12.35	12.46	12.57	12.67	12.78	12.87	12.94
50	-	-	-	-	15.22	15.31	15.39	15.44	15.47
60	-	-	-	-	-	19.13	19.19	19.22	19.21

**Mass flow in kg/h**

10	73	93	116	144	178	-	-	-	-
20	72	92	116	144	177	217	264	-	-
30	-	91	114	142	175	215	261	316	379
40	-	-	112	139	172	210	256	310	372
50	-	-	-	-	167	204	249	301	362
60	-	-	-	-	-	197	240	291	350

**Coefficient of performance (C.O.P.)**

10	2.63	3.28	4.06	4.98	6.08	-	-	-	-
20	1.96	2.47	3.07	3.76	4.56	5.49	6.59	-	-
30	-	1.82	2.27	2.79	3.39	4.07	4.86	5.77	6.84
40	-	-	1.61	1.99	2.42	2.91	3.48	4.12	4.87
50	-	-	-	-	1.64	1.97	2.36	2.80	3.32
60	-	-	-	-	-	1.25	1.49	1.78	2.12

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 788	W
Power input	2 888	W
Current consumption	13.76	A
Mass flow	169	kg/h
C.O.P.	2.00	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R452A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 507	4 432	5 557	6 909	8 509	-	-	-	-
20	3 104	3 978	5 027	6 277	7 751	9 473	11 464	-	-
30	2 691	3 491	4 442	5 569	6 895	8 447	10 247	12 315	14 669
40	2 278	2 984	3 816	4 798	5 955	7 315	8 902	10 740	12 851
50	-	-	3 159	3 976	4 944	6 090	7 442	9 028	10 875
60	-	-	-	-	3 867	4 780	5 876	7 190	8 754

**Power input in W**

10	1 377	1 386	1 398	1 408	1 414	-	-	-	-
20	1 672	1 682	1 698	1 716	1 734	1 748	1 754	-	-
30	2 047	2 050	2 062	2 080	2 101	2 121	2 137	2 146	2 145
40	2 570	2 558	2 558	2 567	2 583	2 601	2 618	2 632	2 638
50	-	-	3 253	3 245	3 246	3 254	3 265	3 274	3 281
60	-	-	-	-	4 159	4 148	4 143	4 141	4 138

**Current consumption in A**

10	8.66	8.76	8.91	9.09	9.31	-	-	-	-
20	9.32	9.41	9.52	9.67	9.83	10.02	10.22	-	-
30	10.41	10.49	10.59	10.71	10.84	10.98	11.13	11.27	11.41
40	12.16	12.25	12.35	12.46	12.57	12.67	12.78	12.87	12.94
50	-	-	15.02	15.12	15.22	15.31	15.39	15.44	15.47
60	-	-	-	-	19.05	19.13	19.19	19.22	19.21

**Mass flow in kg/h**

10	87	108	133	162	196	-	-	-	-
20	85	107	133	162	195	234	278	-	-
30	83	106	131	160	193	231	275	325	379
40	81	103	128	156	189	227	270	318	372
50	-	-	124	152	184	220	262	310	362
60	-	-	-	-	177	212	253	299	350

**Coefficient of performance (C.O.P.)**

10	2.55	3.20	3.98	4.91	6.02	-	-	-	-
20	1.86	2.37	2.96	3.66	4.47	5.42	6.53	-	-
30	1.31	1.70	2.15	2.68	3.28	3.98	4.79	5.74	6.84
40	0.89	1.17	1.49	1.87	2.31	2.81	3.40	4.08	4.87
50	-	-	0.97	1.23	1.52	1.87	2.28	2.76	3.32
60	-	-	-	-	0.93	1.15	1.42	1.74	2.12

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	5 458	W
Power input	2 888	W
Current consumption	13.76	A
Mass flow	186	kg/h
C.O.P.	1.89	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

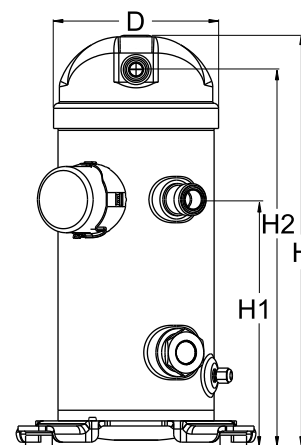
**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

**General Characteristics**

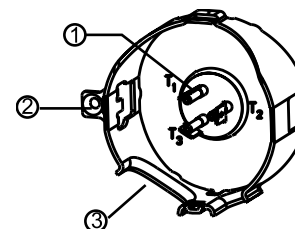
Model number (on compressor nameplate)		<b>MLZ026T9LT9A</b>
Code number for Singlepack*		121U8693
Code number for Industrial pack**		121U8692
Drawing number		0XC6290B-1
Suction and discharge connections		Rotolock
Suction connection		2-1/4 " Rotolock
Discharge connection		1-3/4 " Rotolock
Suction connection with supplied sleeve		1-5/8 " -
Discharge connection with supplied sleeve	- "	1-1/8 " -
Oil sight glass		Threaded
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		None
Swept volume		57.11 cm <sup>3</sup> /rev
Displacement @ Nominal speed		12.0 m <sup>3</sup> /h @ 3500 rpm
Net weight		31 kg
Oil charge		1.06 litre, POE - -
Maximum system test pressure Low Side / High side		- bar(g) / - bar(g)
Maximum differential test pressure		- bar
Maximum number of starts per hour		12
Refrigerant charge limit		3.63 kg
Approved refrigerants		R404A,R507,R134a,R407A,R407F,R448A,R449A,R452A,R22

**Dimensions**


D=184 mm  
H=412.1 mm  
H1=249.8 mm  
H2=379.4 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	380V/3/60Hz
Voltage range	342-418 V
Winding resistance between phases 1-2 +/- 7% at 25°C	3.013 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	2.202 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	3.013 Ω
Rated Load Amps (RLA)	8 A
Maximum Continuous Current (MCC)	12.5 A
Locked Rotor Amps (LRA)	52 A
Motor protection	Internal overload protector

**Terminal box**

**IP22**

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, UL certified (file SA11565), -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**

**Code no.**

Solder sleeve, P03 (2-1/4" Rotolock, 1-5/8" ODF)	8153006
Rotolock valve, V03 (2-1/4" Rotolock, 1-5/8" ODF)	8168026
Gasket, 2-1/4"	8156133

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

**Rotolock accessories, sets**

**Code no.**

Valve set, V03 (2-1/4"~1-5/8"), V02 (1-3/4"~1-1/8")	7703383
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013

**Oil / lubricants**

**Code no.**

POE lubricant, 215PZ(PL46HB), 1 litre can	120Z0648
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 400/460V, CE mark, UL	120Z5041
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**Miscellaneous accessories**

**Code no.**

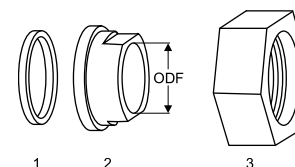
Acoustic hood	120Z5084
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**Spare parts**

**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

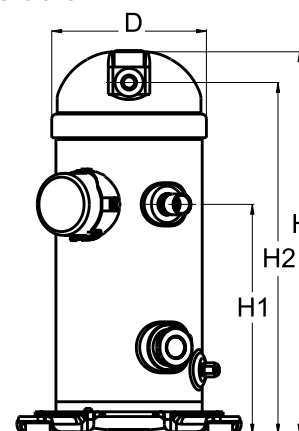
**Gaskets, sleeves and nuts**



- 1: Gasket
- 2: Solder sleeve
- 3: Rotolock nut

**General Characteristics**

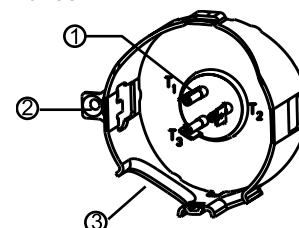
Model number (on compressor nameplate)		<b>MLZ026T9LP9</b>
Code number for Singlepack*		120U8278
Code number for Industrial pack**		120U8277
Drawing number		0XC6300B-1
Suction and discharge connections		Brazed
Suction connection		3/4 " ODF
Discharge connection		1/2 " ODF
Oil sight glass		Threaded
Oil equalisation connection		None
Oil drain connection		1/4" flare
LP gauge port		None
IPR valve		32 bar
Swept volume		57.11 cm <sup>3</sup> /rev
Displacement @ Nominal speed		12.0 m <sup>3</sup> /h @ 3500 rpm
Net weight		31 kg
Oil charge		1.06 litre, PVE --
Maximum system test pressure Low Side / High side		- bar(g) / - bar(g)
Maximum differential test pressure		- bar
Maximum number of starts per hour		12
Refrigerant charge limit		3.63 kg
Approved refrigerants		R404A, R507, R134a, R407C, R22

**Dimensions**


D=164.5 mm  
H=412 mm  
H1=250 mm  
H2=379 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage		380V/3/60Hz
Voltage range		342-418 V
Winding resistance between phases 1-2 +/- 7% at 25°C		3.013 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C		2.202 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C		3.013 Ω
Rated Load Amps (RLA)		8 A
Maximum Continuous Current (MCC)		12.5 A
Locked Rotor Amps (LRA)		52 A
Motor protection		Internal overload protector

**Terminal box**


IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Oil sight glass		52.5 Nm
Power connections / Earth connection		0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves	
Initial oil charge	
Installation instructions	

**Approvals** : CE certified, UL certified (file SA11565), -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**

**Code no.**

Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
Gasket, 1-1/4"	8156131

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

**Rotolock accessories, sets**

**Code no.**

Solder sleeve adapter set (1-1/4" Rotolock, 3/4" ODF), (1" Rotolock, 1/2" ODF)	120Z0126
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

**Oil / lubricants**

**Code no.**

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 400/460V, CE mark, UL	120Z5041
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**Miscellaneous accessories**

**Code no.**

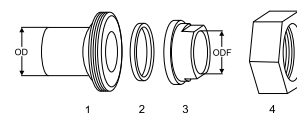
Acoustic hood	120Z5044
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**Spare parts**

**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

**Solder sleeve adapter set**

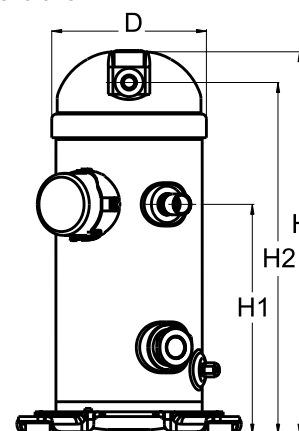


- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)



**General Characteristics**

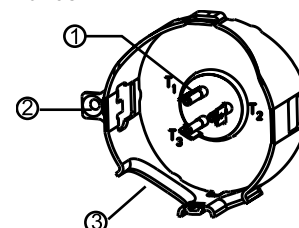
Model number (on compressor nameplate)	MLZ026T9LP9A	MLZ026T9LP9A
Code number for Singlepack*	120U8693	121L8693
Code number for Industrial pack**	120U8692	121L8692
Drawing number	0XC6300B-1	0XC6300B-1
Suction and discharge connections	Brazed	Brazed
Suction connection	3/4" ODF	3/4" ODF
Discharge connection	1/2" ODF	1/2" ODF
Oil sight glass	Threaded	Threaded
Oil equalisation connection	None	None
Oil drain connection	1/4" flare	1/4" flare
LP gauge port	None	None
IPR valve	32 bar	32 bar
Swept volume	57.11 cm <sup>3</sup> /rev	
Displacement @ Nominal speed	12.0 m <sup>3</sup> /h @ 3500 rpm	
Net weight	31 kg	
Oil charge	1.06 litre, POE --	
Maximum system test pressure Low Side / High side	- bar(g) / - bar(g)	
Maximum differential test pressure	- bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	3.63 kg	
Approved refrigerants	R404A,R507,R134a,R407A,R407F,R448A,R449A,R452A,R22	

**Dimensions**


D=164.5 mm  
H=412 mm  
H1=250 mm  
H2=379 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage	380V/3/60Hz
Voltage range	342-418 V
Winding resistance between phases 1-2 +/- 7% at 25°C	3.013 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	2.202 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	3.013 Ω
Rated Load Amps (RLA)	8 A
Maximum Continuous Current (MCC)	12.5 A
Locked Rotor Amps (LRA)	52 A
Motor protection	Internal overload protector

**Terminal box**


IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Suction Rotolock nut or valve	0 Nm
Discharge Rotolock nut or valve	0 Nm
Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, UL certified (file SA11565), -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**

**Code no.**

Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
Gasket, 1-1/4"	8156131

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

**Rotolock accessories, sets**

**Code no.**

Solder sleeve adapter set (1-1/4" Rotolock, 3/4" ODF), (1" Rotolock, 1/2" ODF)	120Z0126
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

**Oil / lubricants**

**Code no.**

POE lubricant, 215PZ(PL46HB), 1 litre can	120Z0648
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 400/460V, CE mark, UL	120Z5041
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**Miscellaneous accessories**

**Code no.**

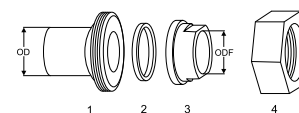
Acoustic hood	120Z5083
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**Spare parts**

**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

**Solder sleeve adapter set**

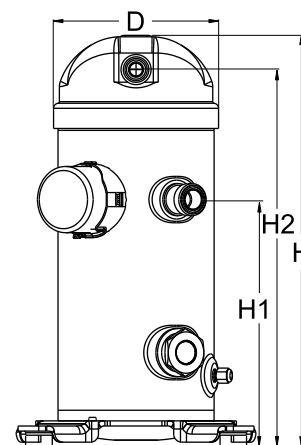


- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)

**General Characteristics**

Model number (on compressor nameplate)		<b>MLZ026T9LT9</b>
Code number for Singlepack*		121U8551
Code number for Industrial pack**		121U8550
Drawing number		0XC6290B-1
Suction and discharge connections		Rotolock
Suction connection		2-1/4 " Rotolock
Discharge connection		1-3/4 " Rotolock
Suction connection with supplied sleeve		1-5/8 " -
Discharge connection with supplied sleeve	- "	1-1/8 " -
Oil sight glass		Threaded
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		None
Swept volume		57.11 cm <sup>3</sup> /rev
Displacement @ Nominal speed		12.0 m <sup>3</sup> /h @ 3500 rpm
Net weight		31 kg
Oil charge		1.06 litre, PVE - -
Maximum system test pressure Low Side / High side		- bar(g) / - bar(g)
Maximum differential test pressure		- bar
Maximum number of starts per hour		12
Refrigerant charge limit		3.63 kg
Approved refrigerants		R404A, R507, R134a, R407C, R22

**Dimensions**

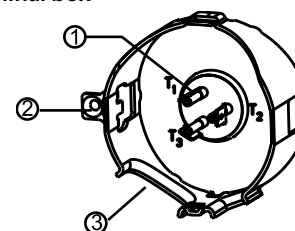


D=184 mm  
H=412.1 mm  
H1=249.8 mm  
H2=379.4 mm  
H3=- mm

**Electrical Characteristics**

Nominal voltage		380V/3/60Hz
Voltage range		342-418 V
Winding resistance between phases 1-2 +/- 7% at 25°C		3.013 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C		2.202 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C		3.013 Ω
Rated Load Amps (RLA)		8 A
Maximum Continuous Current (MCC)		12.5 A
Locked Rotor Amps (LRA)		52 A
Motor protection		Internal overload protector

**Terminal box**



IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

**Recommended Installation torques**

Oil sight glass		52.5 Nm
Power connections / Earth connection		0 Nm / 0 Nm

**Parts shipped with compressor**

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

**Approvals** : CE certified, UL certified (file SA11565), -

\*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet

\*\*Industrial pack: 121U...: 12 unboxed compressors on Danfoss pallet. 120U...: 16 unboxed compressors on US pallet

**Rotolock accessories, suction side**

**Code no.**

Solder sleeve, P03 (2-1/4" Rotolock, 1-5/8" ODF)	8153006
Rotolock valve, V03 (2-1/4" Rotolock, 1-5/8" ODF)	8168026
Gasket, 2-1/4"	8156133

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

**Rotolock accessories, sets**

**Code no.**

Valve set, V03 (2-1/4"~1-5/8"), V02 (1-3/4"~1-1/8")	7703383
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013

**Oil / lubricants**

**Code no.**

PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034
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**Crankcase heaters**

**Code no.**

Belt type crankcase heater, 70 W, 400/460V, CE mark, UL	120Z5041
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**Miscellaneous accessories**

**Code no.**

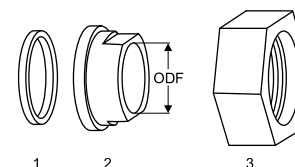
Acoustic hood	120Z5044
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

**Spare parts**

**Code no.**

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5015

**Gaskets, sleeves and nuts**



- 1: Gasket
- 2: Solder sleeve
- 3: Rotolock nut

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R22**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	

**Cooling capacity in W**

16	5 849	7 303	9 037	11 066	-	-	-	-	-
20	5 586	6 974	8 623	10 549	12 761	-	-	-	-
30	5 145	6 414	7 898	9 611	11 569	13 781	16 254	-	-
40	4 727	5 946	7 331	8 901	10 670	12 652	14 855	-	-
50	-	5 219	6 574	8 067	9 716	11 535	13 537	-	-
60	-	-	-	6 766	8 360	10 084	11 953	-	-
68	-	-	-	-	-	8 452	10 259	-	-

**Power input in W**

16	1 339	1 364	1 409	1 470	-	-	-	-	-
20	1 544	1 571	1 614	1 667	1 726	-	-	-	-
30	2 022	2 066	2 113	2 159	2 199	2 229	2 243	-	-
40	2 493	2 569	2 638	2 693	2 731	2 746	2 735	-	-
50	-	3 135	3 241	3 322	3 374	3 392	3 371	-	-
60	-	-	-	4 100	4 183	4 219	4 205	-	-
68	-	-	-	-	-	5 048	5 051	-	-

**Current consumption in A**

16	2.54	2.59	2.68	2.79	-	-	-	-	-
20	2.93	2.98	3.07	3.17	3.28	-	-	-	-
30	3.84	3.92	4.01	4.10	4.18	4.23	4.26	-	-
40	4.73	4.88	5.01	5.11	5.19	5.22	5.19	-	-
50	-	5.95	6.15	6.31	6.41	6.44	6.40	-	-
60	-	-	-	7.79	7.94	8.01	7.99	-	-
68	-	-	-	-	-	9.59	9.59	-	-

**Mass flow in kg/h**

16	124	149	178	211	-	-	-	-	-
20	120	144	173	206	244	-	-	-	-
30	113	138	167	200	237	279	325	-	-
40	108	134	164	197	234	275	320	-	-
50	-	127	158	192	230	271	316	-	-
60	-	-	-	180	220	262	308	-	-
68	-	-	-	-	-	247	294	-	-

**Coefficient of performance (C.O.P.)**

16	4.37	5.35	6.41	7.53	-	-	-	-	-
20	3.62	4.44	5.34	6.33	7.39	-	-	-	-
30	2.54	3.10	3.74	4.45	5.26	6.18	7.25	-	-
40	1.90	2.31	2.78	3.31	3.91	4.61	5.43	-	-
50	-	1.67	2.03	2.43	2.88	3.40	4.02	-	-
60	-	-	-	1.65	2.00	2.39	2.84	-	-
68	-	-	-	-	-	1.67	2.03	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 998	W
Power input	2 926	W
Current consumption	5.56	A
Mass flow	161	kg/h
C.O.P.	2.39	

**Pressure switch settings**

Maximum HP switch setting	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R22**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-20	-15	-10	-5	0	5	10	

**Cooling capacity in W**

16	5 706	7 146	8 873	10 903	-	-	-	-	-
20	5 464	6 840	8 481	10 408	12 637	-	-	-	-
30	5 071	6 331	7 807	9 520	11 486	13 725	16 254	-	-
40	-	5 912	7 291	8 857	10 627	12 620	14 855	-	-
50	-	-	-	8 072	9 713	11 529	13 537	-	-
60	-	-	-	-	8 399	10 104	11 953	-	-
68	-	-	-	-	-	-	10 259	-	-

**Power input in W**

16	1 339	1 364	1 409	1 470	-	-	-	-	-
20	1 544	1 571	1 614	1 667	1 726	-	-	-	-
30	2 022	2 066	2 113	2 159	2 199	2 229	2 243	-	-
40	-	2 569	2 638	2 693	2 731	2 746	2 735	-	-
50	-	-	-	3 322	3 374	3 392	3 371	-	-
60	-	-	-	-	4 183	4 219	4 205	-	-
68	-	-	-	-	-	-	5 051	-	-

**Current consumption in A**

16	2.54	2.59	2.68	2.79	-	-	-	-	-
20	2.93	2.98	3.07	3.17	3.28	-	-	-	-
30	3.84	3.92	4.01	4.10	4.18	4.23	4.26	-	-
40	-	4.88	5.01	5.11	5.19	5.22	5.19	-	-
50	-	-	-	6.31	6.41	6.44	6.40	-	-
60	-	-	-	-	7.94	8.01	7.99	-	-
68	-	-	-	-	-	-	9.59	-	-

**Mass flow in kg/h**

16	109	134	163	197	-	-	-	-	-
20	105	130	158	193	233	-	-	-	-
30	100	124	153	186	226	272	325	-	-
40	-	120	150	184	223	268	320	-	-
50	-	-	-	179	219	265	316	-	-
60	-	-	-	-	209	256	308	-	-
68	-	-	-	-	-	-	294	-	-

**Coefficient of performance (C.O.P.)**

16	4.26	5.24	6.30	7.42	-	-	-	-	-
20	3.54	4.35	5.26	6.24	7.32	-	-	-	-
30	2.51	3.06	3.69	4.41	5.22	6.16	7.25	-	-
40	-	2.30	2.76	3.29	3.89	4.60	5.43	-	-
50	-	-	-	2.43	2.88	3.40	4.02	-	-
60	-	-	-	-	2.01	2.39	2.84	-	-
68	-	-	-	-	-	-	2.03	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 984	W
Power input	2 926	W
Current consumption	5.56	A
Mass flow	148	kg/h
C.O.P.	2.39	

**Pressure switch settings**

Maximum HP switch setting	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

22	4 232	5 328	6 640	8 170	9 917	-	-	-	-
30	3 861	4 915	6 175	7 642	9 317	11 200	-	-	-
40	3 388	4 379	5 563	6 942	8 515	10 283	12 248	-	-
50	-	3 806	4 903	6 181	7 641	9 283	11 108	-	-
60	-	-	4 177	5 343	6 678	8 182	9 857	-	-
70	-	-	-	4 411	5 610	6 965	8 477	-	-
73	-	-	-	4 111	5 266	6 574	8 035	-	-

**Power input in W**

22	1 213	1 220	1 238	1 270	1 317	-	-	-	-
30	1 414	1 435	1 459	1 488	1 524	1 568	-	-	-
40	1 694	1 743	1 784	1 820	1 852	1 882	1 913	-	-
50	-	2 093	2 164	2 218	2 258	2 286	2 304	-	-
60	-	-	2 599	2 683	2 743	2 780	2 797	-	-
70	-	-	-	3 215	3 307	3 365	3 392	-	-
73	-	-	-	3 388	3 491	3 558	3 590	-	-

**Current consumption in A**

22	2.30	2.32	2.35	2.41	2.50	-	-	-	-
30	2.69	2.73	2.77	2.83	2.89	2.98	-	-	-
40	3.22	3.31	3.39	3.46	3.52	3.57	3.63	-	-
50	-	3.98	4.11	4.21	4.29	4.34	4.38	-	-
60	-	-	4.94	5.10	5.21	5.28	5.31	-	-
70	-	-	-	6.11	6.28	6.39	6.44	-	-
73	-	-	-	6.43	6.63	6.76	6.82	-	-

**Mass flow in kg/h**

22	91	110	136	168	203	-	-	-	-
30	92	111	137	168	203	240	-	-	-
40	91	110	136	168	203	239	275	-	-
50	-	106	133	165	200	237	273	-	-
60	-	-	128	161	197	234	271	-	-
70	-	-	-	155	193	231	269	-	-
73	-	-	-	154	191	230	268	-	-

**Coefficient of performance (C.O.P.)**

22	3.49	4.37	5.36	6.43	7.53	-	-	-	-
30	2.73	3.43	4.23	5.14	6.11	7.14	-	-	-
40	2.00	2.51	3.12	3.81	4.60	5.46	6.40	-	-
50	-	1.82	2.27	2.79	3.38	4.06	4.82	-	-
60	-	-	1.61	1.99	2.43	2.94	3.52	-	-
70	-	-	-	1.37	1.70	2.07	2.50	-	-
73	-	-	-	1.21	1.51	1.85	2.24	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	4 098	W
Power input	1 913	W
Current consumption	3.63	A
Mass flow	108	kg/h
C.O.P.	2.14	

**Pressure switch settings**

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

22	4 300	5 390	6 691	8 205	9 934	-	-	-	-
30	-	5 006	6 254	7 701	9 348	11 200	-	-	-
40	-	-	5 678	7 031	8 565	10 283	12 191	-	-
50	-	-	5 052	6 301	7 711	9 283	11 020	-	-
60	-	-	-	5 492	6 768	8 182	-	-	-
70	-	-	-	-	5 718	6 965	-	-	-
73	-	-	-	-	5 380	6 574	-	-	-

**Power input in W**

22	1 213	1 220	1 238	1 270	1 317	-	-	-	-
30	-	1 435	1 459	1 488	1 524	1 568	-	-	-
40	-	-	1 784	1 820	1 852	1 882	1 913	-	-
50	-	-	2 164	2 218	2 258	2 286	2 304	-	-
60	-	-	-	2 683	2 743	2 780	-	-	-
70	-	-	-	-	3 307	3 365	-	-	-
73	-	-	-	-	3 491	3 558	-	-	-

**Current consumption in A**

22	2.30	2.32	2.35	2.41	2.50	-	-	-	-
30	-	2.73	2.77	2.83	2.89	2.98	-	-	-
40	-	-	3.39	3.46	3.52	3.57	3.63	-	-
50	-	-	4.11	4.21	4.29	4.34	4.38	-	-
60	-	-	-	5.10	5.21	5.28	-	-	-
70	-	-	-	-	6.28	6.39	-	-	-
73	-	-	-	-	6.63	6.76	-	-	-

**Mass flow in kg/h**

22	82	101	127	160	198	-	-	-	-
30	-	102	128	161	199	240	-	-	-
40	-	-	127	160	198	239	282	-	-
50	-	-	125	158	196	237	281	-	-
60	-	-	-	154	193	234	-	-	-
70	-	-	-	-	188	231	-	-	-
73	-	-	-	-	187	230	-	-	-

**Coefficient of performance (C.O.P.)**

22	3.55	4.42	5.40	6.46	7.54	-	-	-	-
30	-	3.49	4.29	5.18	6.14	7.14	-	-	-
40	-	-	3.18	3.86	4.63	5.46	6.37	-	-
50	-	-	2.33	2.84	3.41	4.06	4.78	-	-
60	-	-	-	2.05	2.47	2.94	-	-	-
70	-	-	-	-	1.73	2.07	-	-	-
73	-	-	-	-	1.54	1.85	-	-	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	-	W
Power input	-	W
Current consumption	-	A
Mass flow	-	kg/h
C.O.P.	-	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	23.6	bar(g)
Minimum LP switch setting	0.45	bar(g)
LP pump down setting	0.85	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

Tolerance according EN12900



**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 972	6 174	7 624	9 334	11 318	-	-	-	-
20	4 515	5 599	6 903	8 437	10 216	12 251	14 555	-	-
30	4 023	4 990	6 146	7 503	9 076	10 877	12 917	15 210	17 767
40	-	4 318	5 325	6 506	7 872	9 437	11 213	13 213	15 449
50	-	-	4 415	5 417	6 576	7 905	9 416	11 123	13 038
60	-	-	-	-	5 161	6 253	7 499	8 913	10 507

**Power input in W**

10	1 443	1 531	1 572	1 581	1 572	-	-	-	-
20	1 738	1 866	1 939	1 972	1 979	1 974	1 971	-	-
30	2 132	2 296	2 399	2 453	2 473	2 474	2 470	2 474	2 501
40	-	2 851	2 980	3 052	3 084	3 088	3 078	3 070	3 076
50	-	-	3 708	3 797	3 836	3 840	3 824	3 800	3 783
60	-	-	-	-	4 759	4 760	4 733	4 691	4 649

**Current consumption in A**

10	2.74	2.91	2.99	3.00	2.99	-	-	-	-
20	3.30	3.54	3.68	3.74	3.76	3.75	3.74	-	-
30	4.05	4.36	4.56	4.66	4.70	4.70	4.69	4.70	4.75
40	-	5.41	5.66	5.80	5.86	5.86	5.85	5.83	5.84
50	-	-	7.04	7.21	7.29	7.29	7.26	7.22	7.18
60	-	-	-	-	9.04	9.04	8.99	8.91	8.83

**Mass flow in kg/h**

10	90	119	152	190	233	-	-	-	-
20	94	122	153	189	230	279	335	-	-
30	96	121	151	186	226	274	329	394	467
40	-	118	147	181	221	268	323	387	461
50	-	-	140	174	213	260	316	380	455
60	-	-	-	-	204	251	307	372	448

**Coefficient of performance (C.O.P.)**

10	3.45	4.03	4.85	5.90	7.20	-	-	-	-
20	2.60	3.00	3.56	4.28	5.16	6.21	7.38	-	-
30	1.89	2.17	2.56	3.06	3.67	4.40	5.23	6.15	7.11
40	-	1.51	1.79	2.13	2.55	3.06	3.64	4.30	5.02
50	-	-	1.19	1.43	1.71	2.06	2.46	2.93	3.45
60	-	-	-	-	1.08	1.31	1.58	1.90	2.26

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	7 237	W
Power input	3 440	W
Current consumption	6.53	A
Mass flow	217	kg/h
C.O.P.	2.10	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 778	5 975	7 429	9 155	11 167	-	-	-	-
20	4 246	5 318	6 618	8 163	9 969	12 050	14 417	-	-
30	3 679	4 625	5 771	7 135	8 735	10 586	12 703	15 096	17 767
40	3 057	3 874	4 864	6 045	7 436	9 056	10 922	13 050	15 449
50	-	-	3 873	4 868	6 048	7 434	9 047	10 909	13 038
60	-	-	-	-	4 542	5 689	7 047	8 643	10 507

**Power input in W**

10	1 443	1 531	1 572	1 581	1 572	-	-	-	-
20	1 738	1 866	1 939	1 972	1 979	1 974	1 971	-	-
30	2 132	2 296	2 399	2 453	2 473	2 474	2 470	2 474	2 501
40	2 653	2 851	2 980	3 052	3 084	3 088	3 078	3 070	3 076
50	-	-	3 708	3 797	3 836	3 840	3 824	3 800	3 783
60	-	-	-	-	4 759	4 760	4 733	4 691	4 649

**Current consumption in A**

10	2.74	2.91	2.99	3.00	2.99	-	-	-	-
20	3.30	3.54	3.68	3.74	3.76	3.75	3.74	-	-
30	4.05	4.36	4.56	4.66	4.70	4.70	4.69	4.70	4.75
40	5.04	5.41	5.66	5.80	5.86	5.86	5.85	5.83	5.84
50	-	-	7.04	7.21	7.29	7.29	7.26	7.22	7.18
60	-	-	-	-	9.04	9.04	8.99	8.91	8.83

**Mass flow in kg/h**

10	107	140	175	214	257	-	-	-	-
20	112	142	175	213	254	301	354	-	-
30	114	142	173	209	250	296	348	405	467
40	112	138	169	204	244	290	341	399	461
50	-	-	161	196	236	282	333	391	455
60	-	-	-	-	225	272	324	383	448

**Coefficient of performance (C.O.P.)**

10	3.31	3.90	4.72	5.79	7.10	-	-	-	-
20	2.44	2.85	3.41	4.14	5.04	6.11	7.31	-	-
30	1.73	2.01	2.41	2.91	3.53	4.28	5.14	6.10	7.11
40	1.15	1.36	1.63	1.98	2.41	2.93	3.55	4.25	5.02
50	-	-	1.04	1.28	1.58	1.94	2.37	2.87	3.45
60	-	-	-	-	0.95	1.20	1.49	1.84	2.26

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 755	W
Power input	3 440	W
Current consumption	6.53	A
Mass flow	240	kg/h
C.O.P.	1.96	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level	71	dB(A)
With acoustic hood	63	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R448A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 861	4 895	6 147	7 647	9 429	-	-	-	-
20	3 570	4 584	5 787	7 211	8 887	10 847	13 123	-	-
30	-	-	5 303	6 618	8 158	9 953	12 035	14 437	17 189
40	-	-	-	5 909	7 280	8 879	10 736	12 884	15 354
50	-	-	-	-	6 294	7 664	9 265	11 128	13 285
60	-	-	-	-	-	-	7 662	9 208	11 020

**Power input in W**

10	1 339	1 368	1 400	1 438	1 486	-	-	-	-
20	1 683	1 712	1 741	1 772	1 810	1 858	1 918	-	-
30	-	-	2 194	2 217	2 245	2 278	2 321	2 377	2 448
40	-	-	-	2 822	2 837	2 855	2 880	2 914	2 961
50	-	-	-	-	3 636	3 638	3 643	3 654	3 675
60	-	-	-	-	-	-	4 659	4 646	4 640

**Current consumption in A**

10	3.68	3.75	3.79	3.83	3.87	-	-	-	-
20	4.16	4.23	4.28	4.31	4.34	4.38	4.43	-	-
30	-	-	4.84	4.87	4.89	4.92	4.96	5.03	5.13
40	-	-	-	5.63	5.65	5.67	5.70	5.75	5.83
50	-	-	-	-	6.75	6.77	6.79	6.83	6.90
60	-	-	-	-	-	-	8.37	8.40	8.46

**Mass flow in kg/h**

10	63	80	101	127	157	-	-	-	-
20	62	81	102	128	158	195	238	-	-
30	-	-	101	127	157	194	237	287	346
40	-	-	-	124	154	190	232	281	339
50	-	-	-	-	148	182	223	272	328
60	-	-	-	-	-	-	212	258	313

**Coefficient of performance (C.O.P.)**

10	2.88	3.58	4.39	5.32	6.35	-	-	-	-
20	2.12	2.68	3.32	4.07	4.91	5.84	6.84	-	-
30	-	-	2.42	2.98	3.63	4.37	5.19	6.07	7.02
40	-	-	-	2.09	2.57	3.11	3.73	4.42	5.19
50	-	-	-	-	1.73	2.11	2.54	3.05	3.61
60	-	-	-	-	-	-	1.64	1.98	2.37

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 798	W
Power input	3 208	W
Current consumption	6.15	A
Mass flow	151	kg/h
C.O.P.	2.12	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R448A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 877	4 919	6 181	7 695	9 490	-	-	-	-
20	3 539	4 554	5 763	7 196	8 885	10 860	13 148	-	-
30	3 138	4 095	5 218	6 538	8 090	9 903	12 007	14 429	17 189
40	-	-	4 587	5 764	7 146	8 765	10 654	12 842	15 354
50	-	-	-	4 913	6 095	7 489	9 131	11 052	13 285
60	-	-	-	-	4 976	6 114	7 476	9 100	11 020

**Power input in W**

10	1 339	1 368	1 400	1 438	1 486	-	-	-	-
20	1 683	1 712	1 741	1 772	1 810	1 858	1 918	-	-
30	2 143	2 170	2 194	2 217	2 245	2 278	2 321	2 377	2 448
40	-	-	2 807	2 822	2 837	2 855	2 880	2 914	2 961
50	-	-	-	3 635	3 636	3 638	3 643	3 654	3 675
60	-	-	-	-	4 692	4 675	4 659	4 646	4 640

**Current consumption in A**

10	3.68	3.75	3.79	3.83	3.87	-	-	-	-
20	4.16	4.23	4.28	4.31	4.34	4.38	4.43	-	-
30	4.70	4.78	4.84	4.87	4.89	4.92	4.96	5.03	5.13
40	-	-	5.59	5.63	5.65	5.67	5.70	5.75	5.83
50	-	-	-	6.73	6.75	6.77	6.79	6.83	6.90
60	-	-	-	-	8.35	8.36	8.37	8.40	8.46

**Mass flow in kg/h**

10	74	94	116	142	172	-	-	-	-
20	74	94	117	143	174	209	250	-	-
30	73	93	116	142	173	208	249	295	346
40	-	-	113	139	169	204	244	289	339
50	-	-	-	134	163	196	235	279	328
60	-	-	-	-	154	186	223	265	313

**Coefficient of performance (C.O.P.)**

10	2.90	3.60	4.42	5.35	6.39	-	-	-	-
20	2.10	2.66	3.31	4.06	4.91	5.85	6.86	-	-
30	1.46	1.89	2.38	2.95	3.60	4.35	5.17	6.07	7.02
40	-	-	1.63	2.04	2.52	3.07	3.70	4.41	5.19
50	-	-	-	1.35	1.68	2.06	2.51	3.02	3.61
60	-	-	-	-	1.06	1.31	1.60	1.96	2.37

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 631	W
Power input	3 208	W
Current consumption	6.15	A
Mass flow	166	kg/h
C.O.P.	2.07	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R449A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 861	4 895	6 147	7 647	9 429	-	-	-	-
20	3 570	4 584	5 787	7 211	8 887	10 847	13 123	-	-
30	-	-	5 303	6 618	8 158	9 953	12 035	14 437	17 189
40	-	-	-	5 909	7 280	8 879	10 736	12 884	15 354
50	-	-	-	-	6 294	7 664	9 265	11 128	13 285
60	-	-	-	-	-	-	7 662	9 208	11 020

**Power input in W**

10	1 339	1 368	1 400	1 438	1 486	-	-	-	-
20	1 683	1 712	1 741	1 772	1 810	1 858	1 918	-	-
30	-	-	2 194	2 217	2 245	2 278	2 321	2 377	2 448
40	-	-	-	2 822	2 837	2 855	2 880	2 914	2 961
50	-	-	-	-	3 636	3 638	3 643	3 654	3 675
60	-	-	-	-	-	-	4 659	4 646	4 640

**Current consumption in A**

10	3.68	3.75	3.79	3.83	3.87	-	-	-	-
20	4.16	4.23	4.28	4.31	4.34	4.38	4.43	-	-
30	-	-	4.84	4.87	4.89	4.92	4.96	5.03	5.13
40	-	-	-	5.63	5.65	5.67	5.70	5.75	5.83
50	-	-	-	-	6.75	6.77	6.79	6.83	6.90
60	-	-	-	-	-	-	8.37	8.40	8.46

**Mass flow in kg/h**

10	64	82	103	129	159	-	-	-	-
20	64	82	104	130	161	198	242	-	-
30	-	-	103	129	160	197	241	292	352
40	-	-	-	126	157	193	236	287	346
50	-	-	-	-	151	186	228	278	335
60	-	-	-	-	-	-	216	264	320

**Coefficient of performance (C.O.P.)**

10	2.88	3.58	4.39	5.32	6.35	-	-	-	-
20	2.12	2.68	3.32	4.07	4.91	5.84	6.84	-	-
30	-	-	2.42	2.98	3.63	4.37	5.19	6.07	7.02
40	-	-	-	2.09	2.57	3.11	3.73	4.42	5.19
50	-	-	-	-	1.73	2.11	2.54	3.05	3.61
60	-	-	-	-	-	-	1.64	1.98	2.37

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 798	W
Power input	3 208	W
Current consumption	6.15	A
Mass flow	154	kg/h
C.O.P.	2.12	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R449A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	3 869	4 910	6 172	7 685	9 481	-	-	-	-
20	3 530	4 545	5 753	7 186	8 875	10 851	13 141	-	-
30	3 129	4 085	5 206	6 527	8 079	9 893	11 999	14 424	17 189
40	-	-	4 575	5 752	7 134	8 755	10 646	12 837	15 354
50	-	-	-	4 901	6 082	7 478	9 122	11 047	13 285
60	-	-	-	-	4 963	6 103	7 468	9 094	11 020

**Power input in W**

10	1 339	1 368	1 400	1 438	1 486	-	-	-	-
20	1 683	1 712	1 741	1 772	1 810	1 858	1 918	-	-
30	2 143	2 170	2 194	2 217	2 245	2 278	2 321	2 377	2 448
40	-	-	2 807	2 822	2 837	2 855	2 880	2 914	2 961
50	-	-	-	3 635	3 636	3 638	3 643	3 654	3 675
60	-	-	-	-	4 692	4 675	4 659	4 646	4 640

**Current consumption in A**

10	3.68	3.75	3.79	3.83	3.87	-	-	-	-
20	4.16	4.23	4.28	4.31	4.34	4.38	4.43	-	-
30	4.70	4.78	4.84	4.87	4.89	4.92	4.96	5.03	5.13
40	-	-	5.59	5.63	5.65	5.67	5.70	5.75	5.83
50	-	-	-	6.73	6.75	6.77	6.79	6.83	6.90
60	-	-	-	-	8.35	8.36	8.37	8.40	8.46

**Mass flow in kg/h**

10	76	95	118	144	175	-	-	-	-
20	75	95	119	145	177	213	255	-	-
30	74	95	118	145	176	212	254	300	352
40	-	-	115	142	172	208	249	295	346
50	-	-	-	136	166	200	240	285	335
60	-	-	-	-	157	190	228	271	320

**Coefficient of performance (C.O.P.)**

10	2.89	3.59	4.41	5.34	6.38	-	-	-	-
20	2.10	2.65	3.31	4.05	4.90	5.84	6.85	-	-
30	1.46	1.88	2.37	2.94	3.60	4.34	5.17	6.07	7.02
40	-	-	1.63	2.04	2.51	3.07	3.70	4.41	5.19
50	-	-	-	1.35	1.67	2.06	2.50	3.02	3.61
60	-	-	-	-	1.06	1.31	1.60	1.96	2.37

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 619	W
Power input	3 208	W
Current consumption	6.15	A
Mass flow	169	kg/h
C.O.P.	2.06	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R452A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 466	5 540	6 852	8 429	10 296	-	-	-	-
20	4 039	5 048	6 268	7 725	9 446	11 456	13 782	-	-
30	-	4 534	5 631	6 938	8 481	10 287	12 381	14 791	17 540
40	-	-	4 960	6 087	7 422	8 993	10 826	12 947	15 382
50	-	-	-	-	6 289	7 595	9 136	10 938	13 028
60	-	-	-	-	-	6 111	7 330	8 784	10 500

**Power input in W**

10	1 538	1 582	1 612	1 637	1 662	-	-	-	-
20	1 815	1 881	1 924	1 952	1 971	1 990	2 017	-	-
30	-	2 279	2 345	2 386	2 410	2 424	2 436	2 453	2 483
40	-	-	2 890	2 955	2 993	3 013	3 021	3 025	3 032
50	-	-	-	-	3 739	3 774	3 788	3 789	3 784
60	-	-	-	-	-	4 722	4 752	4 761	4 754

**Current consumption in A**

10	4.08	4.01	3.96	3.95	3.98	-	-	-	-
20	4.33	4.34	4.33	4.32	4.33	4.37	4.45	-	-
30	-	4.77	4.84	4.89	4.91	4.93	4.95	5.00	5.07
40	-	-	5.51	5.64	5.72	5.76	5.77	5.77	5.76
50	-	-	-	-	6.77	6.87	6.91	6.90	6.85
60	-	-	-	-	-	8.27	8.37	8.39	8.35

**Mass flow in kg/h**

10	90	113	141	173	213	-	-	-	-
20	89	112	139	172	212	259	315	-	-
30	-	110	137	170	209	256	311	377	454
40	-	-	134	166	204	250	305	370	446
50	-	-	-	-	198	242	296	359	434
60	-	-	-	-	-	233	284	346	419

**Coefficient of performance (C.O.P.)**

10	2.90	3.50	4.25	5.15	6.19	-	-	-	-
20	2.23	2.68	3.26	3.96	4.79	5.76	6.83	-	-
30	-	1.99	2.40	2.91	3.52	4.24	5.08	6.03	7.06
40	-	-	1.72	2.06	2.48	2.98	3.58	4.28	5.07
50	-	-	-	-	1.68	2.01	2.41	2.89	3.44
60	-	-	-	-	-	1.29	1.54	1.85	2.21

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 864	W
Power input	3 345	W
Current consumption	6.21	A
Mass flow	201	kg/h
C.O.P.	2.05	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Tolerance according EN12900

**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R452A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-30	-25	-20	-15	-10	-5	0	5	10

**Cooling capacity in W**

10	4 321	5 393	6 709	8 298	10 187	-	-	-	-
20	3 833	4 832	6 049	7 514	9 255	11 301	13 675	-	-
30	3 352	4 248	5 336	6 646	8 209	10 054	12 209	14 699	17 540
40	2 892	3 658	4 588	5 715	7 070	8 684	10 589	12 813	15 382
50	-	-	3 823	4 739	5 857	7 210	8 834	10 762	13 028
60	-	-	-	-	4 582	5 646	6 960	8 563	10 500

**Power input in W**

10	1 538	1 582	1 612	1 637	1 662	-	-	-	-
20	1 815	1 881	1 924	1 952	1 971	1 990	2 017	-	-
30	2 181	2 279	2 345	2 386	2 410	2 424	2 436	2 453	2 483
40	2 652	2 792	2 890	2 955	2 993	3 013	3 021	3 025	3 032
50	-	-	3 577	3 676	3 739	3 774	3 788	3 789	3 784
60	-	-	-	-	4 661	4 722	4 752	4 761	4 754

**Current consumption in A**

10	4.08	4.01	3.96	3.95	3.98	-	-	-	-
20	4.33	4.34	4.33	4.32	4.33	4.37	4.45	-	-
30	4.65	4.77	4.84	4.89	4.91	4.93	4.95	5.00	5.07
40	5.04	5.31	5.51	5.64	5.72	5.76	5.77	5.77	5.76
50	-	-	6.34	6.60	6.77	6.87	6.91	6.90	6.85
60	-	-	-	-	8.07	8.27	8.37	8.39	8.35

**Mass flow in kg/h**

10	107	132	161	195	234	-	-	-	-
20	105	130	160	193	233	279	332	-	-
30	104	129	157	190	230	275	328	388	454
40	103	126	154	186	224	269	321	380	446
50	-	-	150	181	217	261	312	369	434
60	-	-	-	-	209	251	299	356	419

**Coefficient of performance (C.O.P.)**

10	2.81	3.41	4.16	5.07	6.13	-	-	-	-
20	2.11	2.57	3.14	3.85	4.70	5.68	6.78	-	-
30	1.54	1.86	2.28	2.79	3.41	4.15	5.01	5.99	7.06
40	1.09	1.31	1.59	1.93	2.36	2.88	3.51	4.24	5.07
50	-	-	1.07	1.29	1.57	1.91	2.33	2.84	3.44
60	-	-	-	-	0.98	1.20	1.46	1.80	2.21

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 472	W
Power input	3 345	W
Current consumption	6.21	A
Mass flow	221	kg/h
C.O.P.	1.93	

**Pressure switch settings**

Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

**Sound power data**

Sound power level		dB(A)
With acoustic hood		dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900