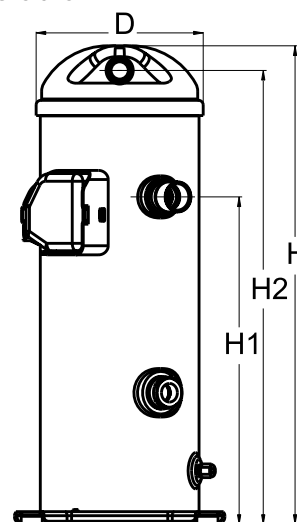


General Characteristics

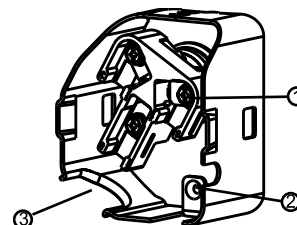
Model number (on compressor nameplate)	MLZ076T2LC9	MLZ076T2LC9
Code number for Singlepack*	121U8056	120U8056
Code number for Industrial pack**	121U8055	120U8055
Drawing number	0SR6167B-3	0SR6167B-3
Suction and discharge connections	Brazed	Brazed
Suction connection	1-1/8" ODF	1-1/8" ODF
Discharge connection	7/8" ODF	7/8" 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	None	None
Swept volume	162.43 cm ³ /rev	
Displacement @ Nominal speed	28.3 m ³ /h @ 2900 rpm - 34.1 m ³ /h @ 3500 rpm	
Net weight	47 kg	
Oil charge	2.66 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	7.26 kg	
Approved refrigerants	R404A, R507, R134a, R407C, R22	

Dimensions


D=185 mm
H=545 mm
H1=369 mm
H2=509 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	0.319 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	0.315 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	0.327 Ω
Rated Load Amps (RLA)	32 A
Maximum Continuous Current (MCC)	50 A
Locked Rotor Amps (LRA)	235 A
Motor protection	Internal overload protector

Terminal box


IP22

- 1: Screw connectors 10-32 UNF x 9.5
- 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	3 Nm / 2 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, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

Rotolock accessories, discharge side

Code no.

Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-3/4"	8156132

Rotolock accessories, sets

Code no.

Solder sleeve adapter set (1-3/4" Rotolock, 1-1/8" ODF), (1-1/4" Rotolock, 7/8" ODF)	120Z0125
Valve set, V02(1"3/4~1"1/8), V05(1"1/4~7/8")	120Z0403
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, 230 V, UL	120Z5011
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059

Miscellaneous accessories

Code no.

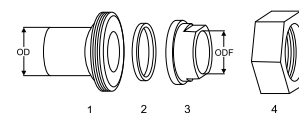
Acoustic hood	120Z5045
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0057

Spare parts

Code no.

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5018

Solder sleeve adapter set

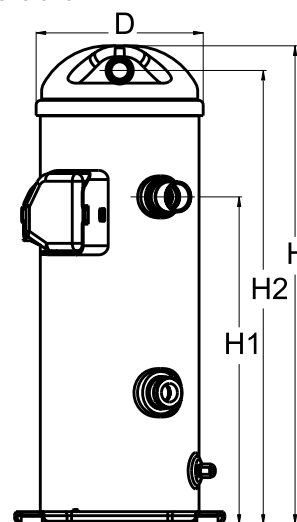


- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)

General Characteristics

Model number (on compressor nameplate)	MLZ076T2LC9A	MLZ076T2LC9A
Code number for Singlepack*	121U8687	121L8687
Code number for Industrial pack**	121U8686	121L8686
Drawing number	0SR6167B-3	0SR6167B-3
Suction and discharge connections	Brazed	Brazed
Suction connection	1-1/8" ODF	1-1/8" ODF
Discharge connection	7/8" ODF	7/8" 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	None	None
Swept volume	162.43 cm ³ /rev	
Displacement @ Nominal speed	28.3 m ³ /h @ 2900 rpm - 34.1 m ³ /h @ 3500 rpm	
Net weight	47 kg	
Oil charge	2.66 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	7.26 kg	
Approved refrigerants	R404A,R507,R134a,R407A,R407F,R448A,R449A,R452A,R22	

Dimensions

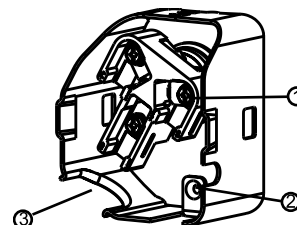


D=185 mm
H=545 mm
H1=369 mm
H2=509 mm
H3=- mm

Electrical Characteristics

Nominal voltage	208-230V/3/60Hz
Voltage range	188-253 V
Winding resistance between phases 1-2 +/- 7% at 25°C	0.319 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	0.315 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	0.327 Ω
Rated Load Amps (RLA)	32 A
Maximum Continuous Current (MCC)	50 A
Locked Rotor Amps (LRA)	235 A
Motor protection	Internal overload protector

Terminal box



IP22

- 1: Screw connectors 10-32 UNF x 9.5
- 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	3 Nm / 2 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, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

Rotolock accessories, discharge side

Code no.

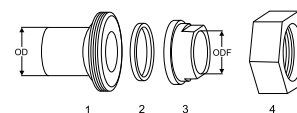
Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-3/4"	8156132

Rotolock accessories, sets

Code no.

Solder sleeve adapter set (1-3/4" Rotolock, 1-1/8" ODF), (1-1/4" Rotolock, 7/8" ODF)	120Z0125
Valve set, V02(1"3/4~1"1/8), V05(1"1/4~7/8")	120Z0403
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

Solder sleeve adapter set



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

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, 230 V, UL	120Z5011
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059

Miscellaneous accessories

Code no.

Acoustic hood	120Z5085
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0057

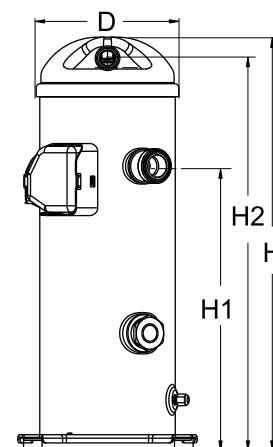
Spare parts

Code no.

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5018

General Characteristics

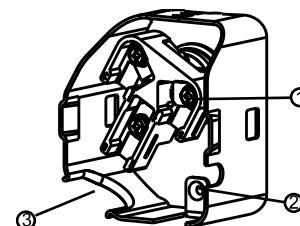
Model number (on compressor nameplate)		MLZ076T2LQ9
Code number for Singlepack*		121U8625
Code number for Industrial pack**		121U8624
Drawing number		0SR6307B-3
Suction and discharge connections		Rotolock
Suction connection		1-3/4 " Rotolock
Discharge connection		1-1/4 " Rotolock
Suction connection with supplied sleeve		1-1/8 " -
Discharge connection with supplied sleeve	- "	7/8 " -
Oil sight glass		Threaded
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		None
Swept volume		162.43 cm ³ /rev
Displacement @ Nominal speed		28.3 m ³ /h @ 2900 rpm - 34.1 m ³ /h @ 3500 rpm
Net weight		47 kg
Oil charge		2.66 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		7.26 kg
Approved refrigerants		R404A, R507, R134a, R407C, R22

Dimensions


D=184 mm
H=545.2 mm
H1=369.2 mm
H2=518 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	0.319 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	0.315 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	0.327 Ω
Rated Load Amps (RLA)	32 A
Maximum Continuous Current (MCC)	50 A
Locked Rotor Amps (LRA)	235 A
Motor protection	Internal overload protector

Terminal box


IP22

- 1: Screw connectors 10-32 UNF x 9.5
- 2: Earth connection
- 3: Power cable passage

Recommended Installation torques

Oil sight glass	52.5 Nm
Power connections / Earth connection	3 Nm / 2 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.

Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

Rotolock accessories, discharge side
Code no.

Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-1/4"	8156131

Rotolock accessories, sets
Code no.

Teflon seals, sleeves, nuts for discharge and suction (1"1/4 and 1"1/4)	120Z5076
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.

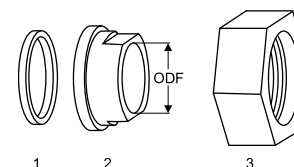
Belt type crankcase heater, 70 W, 230 V, UL	120Z5011
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059

Miscellaneous accessories
Code no.

Acoustic hood	120Z5045
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0057

Spare parts
Code no.

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5018

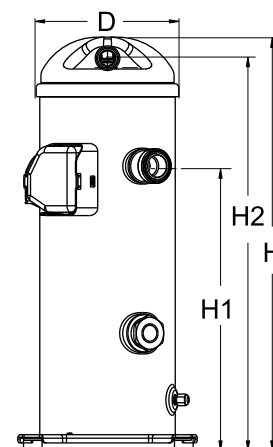
Gaskets, sleeves and nuts


1 2 3

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

General Characteristics

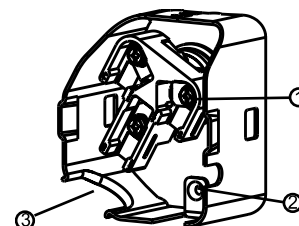
Model number (on compressor nameplate)	MLZ076T2LC9A	MLZ076T2LQ9A
Code number for Singlepack*	120U8687	121U8835
Code number for Industrial pack**	120U8686	121U8834
Drawing number	0SR6167B-3	0SR6307B-3
Suction and discharge connections	Brazed	Rotolock
Suction connection	1-1/8" ODF	1-3/4" Rotolock
Discharge connection	7/8" ODF	1-1/4" Rotolock
Suction connection with supplied sleeve		1-1/8" -
Discharge connection with supplied sleeve	- "	7/8" -
Oil sight glass	Threaded	Threaded
Oil equalisation connection	None	None
Oil drain connection	1/4" flare	None
LP gauge port	None	None
IPR valve	None	None
Swept volume	162.43 cm ³ /rev	
Displacement @ Nominal speed	28.3 m ³ /h @ 2900 rpm - 34.1 m ³ /h @ 3500 rpm	
Net weight	47 kg	
Oil charge	2.66 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	7.26 kg	
Approved refrigerants	R404A,R507,R134a,R407A,R407F,R448A,R449A,R452A,R22	

Dimensions


D=184 mm
H=545.2 mm
H1=369.2 mm
H2=518 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	0.319 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	0.315 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	0.327 Ω
Rated Load Amps (RLA)	32 A
Maximum Continuous Current (MCC)	50 A
Locked Rotor Amps (LRA)	235 A
Motor protection	Internal overload protector

Terminal box


IP22

- 1: Screw connectors 10-32 UNF x 9.5
- 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	3 Nm / 2 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.

Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

Rotolock accessories, discharge side

Code no.

Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-1/4"	8156131

Rotolock accessories, sets

Code no.

Teflon seals, sleeves, nuts for discharge and suction (1"1/4 and 1"1/4)	120Z5076
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, 230 V, UL	120Z5011
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059

Miscellaneous accessories

Code no.

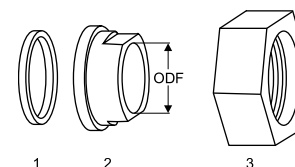
Acoustic hood	120Z5085
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0057

Spare parts

Code no.

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Terminal box cover	120Z5018

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	14 172	17 580	21 594	26 236	-	-	-	-	-
20	13 688	16 996	20 888	25 387	30 508	-	-	-	-
30	12 551	15 624	19 225	23 379	28 107	33 423	39 332	-	-
40	11 341	14 199	17 529	21 359	25 715	30 614	36 069	-	-
50	-	12 506	15 584	19 111	23 114	27 617	32 639	-	-
60	-	-	-	16 420	20 088	24 216	28 826	-	-
68	-	-	-	-	-	21 059	25 352	-	-

Power input in W

16	3 212	3 135	3 016	2 915	-	-	-	-	-
20	3 940	3 884	3 778	3 679	3 647	-	-	-	-
30	5 259	5 265	5 195	5 108	5 064	5 121	5 340	-	-
40	6 281	6 357	6 333	6 268	6 221	6 251	6 418	-	-
50	-	7 684	7 716	7 682	7 641	7 653	7 777	-	-
60	-	-	-	9 870	9 845	9 849	9 940	-	-
68	-	-	-	-	-	12 528	12 599	-	-

Current consumption in A

16	12.36	12.07	11.61	11.22	-	-	-	-	-
20	15.16	14.95	14.54	14.16	14.04	-	-	-	-
30	20.24	20.26	19.99	19.66	19.49	19.71	20.55	-	-
40	24.17	24.47	24.38	24.13	23.95	24.06	24.70	-	-
50	-	29.58	29.70	29.57	29.41	29.46	29.93	-	-
60	-	-	-	37.99	37.89	37.91	38.26	-	-
68	-	-	-	-	-	48.22	48.49	-	-

Mass flow in kg/h

16	268	334	409	494	-	-	-	-	-
20	270	334	408	491	584	-	-	-	-
30	271	333	404	485	576	676	785	-	-
40	263	325	397	478	568	668	776	-	-
50	-	305	379	463	555	657	766	-	-
60	-	-	-	435	532	637	751	-	-
68	-	-	-	-	-	612	731	-	-

Coefficient of performance (C.O.P.)

16	4.41	5.61	7.16	9.00	-	-	-	-	-
20	3.47	4.38	5.53	6.90	8.37	-	-	-	-
30	2.39	2.97	3.70	4.58	5.55	6.53	7.37	-	-
40	1.81	2.23	2.77	3.41	4.13	4.90	5.62	-	-
50	-	1.63	2.02	2.49	3.02	3.61	4.20	-	-
60	-	-	-	1.66	2.04	2.46	2.90	-	-
68	-	-	-	-	-	1.68	2.01	-	-

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

Cooling capacity	16 601	W
Power input	6 962	W
Current consumption	26.79	A
Mass flow	390	kg/h
C.O.P.	2.38	

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	74	dB(A)
With acoustic hood	66	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	13 826	17 204	21 201	25 850	-	-	-	-	-
20	13 390	16 670	20 545	25 048	30 211	-	-	-	-
30	12 369	15 420	19 005	23 156	27 906	33 288	39 332	-	-
40	-	14 119	17 434	21 253	25 611	30 539	36 069	-	-
50	-	-	-	19 123	23 108	27 603	32 639	-	-
60	-	-	-	-	20 181	24 263	28 826	-	-
68	-	-	-	-	-	-	25 352	-	-

Power input in W

16	3 212	3 135	3 016	2 915	-	-	-	-	-
20	3 940	3 884	3 778	3 679	3 647	-	-	-	-
30	5 259	5 265	5 195	5 108	5 064	5 121	5 340	-	-
40	-	6 357	6 333	6 268	6 221	6 251	6 418	-	-
50	-	-	-	7 682	7 641	7 653	7 777	-	-
60	-	-	-	-	9 845	9 849	9 940	-	-
68	-	-	-	-	-	-	12 599	-	-

Current consumption in A

16	12.36	12.07	11.61	11.22	-	-	-	-	-
20	15.16	14.95	14.54	14.16	14.04	-	-	-	-
30	20.24	20.26	19.99	19.66	19.49	19.71	20.55	-	-
40	-	24.47	24.38	24.13	23.95	24.06	24.70	-	-
50	-	-	-	29.57	29.41	29.46	29.93	-	-
60	-	-	-	-	37.89	37.91	38.26	-	-
68	-	-	-	-	-	-	48.49	-	-

Mass flow in kg/h

16	236	300	374	462	-	-	-	-	-
20	238	300	373	459	557	-	-	-	-
30	238	299	370	453	549	660	785	-	-
40	-	292	363	446	542	651	776	-	-
50	-	-	-	432	530	641	766	-	-
60	-	-	-	-	507	622	751	-	-
68	-	-	-	-	-	-	731	-	-

Coefficient of performance (C.O.P.)

16	4.30	5.49	7.03	8.87	-	-	-	-	-
20	3.40	4.29	5.44	6.81	8.28	-	-	-	-
30	2.35	2.93	3.66	4.53	5.51	6.50	7.37	-	-
40	-	2.22	2.75	3.39	4.12	4.89	5.62	-	-
50	-	-	-	2.49	3.02	3.61	4.20	-	-
60	-	-	-	-	2.05	2.46	2.90	-	-
68	-	-	-	-	-	-	2.01	-	-

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

Cooling capacity	16 569	W
Power input	6 962	W
Current consumption	26.79	A
Mass flow	357	kg/h
C.O.P.	2.38	

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	74	dB(A)
With acoustic hood	66	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	16 488	20 893	26 092	32 026	-	-	-	-	-
20	15 905	20 135	25 138	30 856	37 229	-	-	-	-
30	14 684	18 529	23 090	28 316	34 150	40 529	47 378	-	-
40	13 439	16 967	21 156	25 960	31 326	37 196	43 502	-	-
50	-	15 002	18 888	23 338	28 305	33 737	39 572	-	-
60	-	-	-	20 011	24 645	29 706	35 140	-	-
68	-	-	-	-	-	25 771	30 933	-	-

Power input in W

16	4 672	4 755	4 842	4 948	-	-	-	-	-
20	5 048	5 144	5 237	5 342	5 474	-	-	-	-
30	6 067	6 199	6 314	6 423	6 543	6 687	6 869	-	-
40	7 302	7 479	7 622	7 743	7 859	7 982	8 127	-	-
50	-	9 113	9 291	9 432	9 550	9 660	9 776	-	-
60	-	-	-	11 618	11 747	11 852	11 946	-	-
68	-	-	-	-	-	14 061	14 143	-	-

Current consumption in A

16	14.66	14.92	15.19	15.53	-	-	-	-	-
20	15.84	16.14	16.43	16.76	17.17	-	-	-	-
30	19.04	19.45	19.81	20.16	20.53	20.98	21.55	-	-
40	22.91	23.47	23.91	24.30	24.66	25.04	25.50	-	-
50	-	28.59	29.15	29.59	29.97	30.31	30.68	-	-
60	-	-	-	36.46	36.86	37.19	37.48	-	-
68	-	-	-	-	-	44.12	44.38	-	-

Mass flow in kg/h

16	351	421	504	602	-	-	-	-	-
20	341	412	495	592	703	-	-	-	-
30	327	400	485	581	690	812	945	-	-
40	315	392	480	578	687	808	939	-	-
50	-	371	464	566	678	799	930	-	-
60	-	-	-	530	647	772	905	-	-
68	-	-	-	-	-	726	863	-	-

Coefficient of performance (C.O.P.)

16	3.53	4.39	5.39	6.47	-	-	-	-	-
20	3.15	3.91	4.80	5.78	6.80	-	-	-	-
30	2.42	2.99	3.66	4.41	5.22	6.06	6.90	-	-
40	1.84	2.27	2.78	3.35	3.99	4.66	5.35	-	-
50	-	1.65	2.03	2.47	2.96	3.49	4.05	-	-
60	-	-	-	1.72	2.10	2.51	2.94	-	-
68	-	-	-	-	-	1.83	2.19	-	-

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

Cooling capacity	20 092	W
Power input	8 403	W
Current consumption	26.37	A
Mass flow	474	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	78	dB(A)
With acoustic hood	70	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	16 086	20 446	25 616	31 555	-	-	-	-	-
20	15 558	19 748	24 725	30 445	36 866	-	-	-	-
30	14 472	18 287	22 825	28 046	33 906	40 365	47 378	-	-
40	-	16 871	21 041	25 831	31 199	37 104	43 502	-	-
50	-	-	-	23 354	28 299	33 719	39 572	-	-
60	-	-	-	-	24 758	29 763	35 140	-	-
68	-	-	-	-	-	-	30 933	-	-

Power input in W

16	4 672	4 755	4 842	4 948	-	-	-	-	-
20	5 048	5 144	5 237	5 342	5 474	-	-	-	-
30	6 067	6 199	6 314	6 423	6 543	6 687	6 869	-	-
40	-	7 479	7 622	7 743	7 859	7 982	8 127	-	-
50	-	-	-	9 432	9 550	9 660	9 776	-	-
60	-	-	-	-	11 747	11 852	11 946	-	-
68	-	-	-	-	-	-	14 143	-	-

Current consumption in A

16	14.66	14.92	15.19	15.53	-	-	-	-	-
20	15.84	16.14	16.43	16.76	17.17	-	-	-	-
30	19.04	19.45	19.81	20.16	20.53	20.98	21.55	-	-
40	-	23.47	23.91	24.30	24.66	25.04	25.50	-	-
50	-	-	-	29.59	29.97	30.31	30.68	-	-
60	-	-	-	-	36.86	37.19	37.48	-	-
68	-	-	-	-	-	-	44.38	-	-

Mass flow in kg/h

16	309	378	462	562	-	-	-	-	-
20	300	369	453	553	670	-	-	-	-
30	288	359	443	543	658	792	945	-	-
40	-	352	439	540	655	788	939	-	-
50	-	-	-	529	647	780	930	-	-
60	-	-	-	-	617	753	905	-	-
68	-	-	-	-	-	-	863	-	-

Coefficient of performance (C.O.P.)

16	3.44	4.30	5.29	6.38	-	-	-	-	-
20	3.08	3.84	4.72	5.70	6.74	-	-	-	-
30	2.39	2.95	3.62	4.37	5.18	6.04	6.90	-	-
40	-	2.26	2.76	3.34	3.97	4.65	5.35	-	-
50	-	-	-	2.48	2.96	3.49	4.05	-	-
60	-	-	-	-	2.11	2.51	2.94	-	-
68	-	-	-	-	-	-	2.19	-	-

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

Cooling capacity	20 052	W
Power input	8 403	W
Current consumption	26.37	A
Mass flow	434	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	78	dB(A)
With acoustic hood	70	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	9 992	12 574	15 588	19 065	23 038	-	-	-	-
30	9 118	11 555	14 413	17 726	21 525	25 842	-	-	-
40	8 041	10 252	12 873	15 936	19 473	23 516	28 098	-	-
50	-	8 940	11 274	14 039	17 265	20 985	25 232	-	-
60	-	-	9 642	12 059	14 926	18 274	22 137	-	-
70	-	-	-	10 022	12 479	15 407	18 836	-	-
73	-	-	-	9 403	11 728	14 520	17 809	-	-

Power input in W

22	2 812	2 864	2 955	3 065	3 172	-	-	-	-
30	3 366	3 412	3 490	3 577	3 651	3 690	-	-	-
40	4 160	4 224	4 306	4 386	4 440	4 447	4 385	-	-
50	-	5 149	5 261	5 357	5 417	5 417	5 336	-	-
60	-	-	6 329	6 467	6 556	6 574	6 498	-	-
70	-	-	-	7 688	7 831	7 891	7 845	-	-
73	-	-	-	8 072	8 236	8 313	8 282	-	-

Current consumption in A

22	10.83	11.02	11.37	11.80	12.21	-	-	-	-
30	12.95	13.13	13.43	13.77	14.05	14.20	-	-	-
40	16.01	16.26	16.57	16.88	17.09	17.12	16.88	-	-
50	-	19.82	20.25	20.62	20.85	20.85	20.54	-	-
60	-	-	24.36	24.89	25.23	25.30	25.01	-	-
70	-	-	-	29.59	30.14	30.37	30.20	-	-
73	-	-	-	31.07	31.70	32.00	31.88	-	-

Mass flow in kg/h

22	214	265	323	388	461	-	-	-	-
30	210	262	320	386	460	542	-	-	-
40	205	256	315	381	456	540	633	-	-
50	-	250	308	374	449	534	629	-	-
60	-	-	299	365	440	525	620	-	-
70	-	-	-	353	427	512	607	-	-
73	-	-	-	349	423	507	603	-	-

Coefficient of performance (C.O.P.)

22	3.55	4.39	5.27	6.22	7.26	-	-	-	-
30	2.71	3.39	4.13	4.96	5.90	7.00	-	-	-
40	1.93	2.43	2.99	3.63	4.39	5.29	6.41	-	-
50	-	1.74	2.14	2.62	3.19	3.87	4.73	-	-
60	-	-	1.52	1.86	2.28	2.78	3.41	-	-
70	-	-	-	1.30	1.59	1.95	2.40	-	-
73	-	-	-	1.16	1.42	1.75	2.15	-	-

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

Cooling capacity	9 595	W
Power input	4 674	W
Current consumption	17.99	A
Mass flow	253	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	74	dB(A)
With acoustic hood	66	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	10 152	12 721	15 708	19 147	23 076	-	-	-	-
30	-	11 768	14 598	17 863	21 598	25 842	-	-	-
40	-	-	13 138	16 141	19 589	23 516	27 966	-	-
50	-	-	11 617	14 311	17 424	20 985	25 031	-	-
60	-	-	-	12 396	15 126	18 274	-	-	-
70	-	-	-	-	12 720	15 407	-	-	-
73	-	-	-	-	11 981	14 520	-	-	-

Power input in W

22	2 812	2 864	2 955	3 065	3 172	-	-	-	-
30	-	3 412	3 490	3 577	3 651	3 690	-	-	-
40	-	-	4 306	4 386	4 440	4 447	4 385	-	-
50	-	-	5 261	5 357	5 417	5 417	5 336	-	-
60	-	-	-	6 467	6 556	6 574	-	-	-
70	-	-	-	-	7 831	7 891	-	-	-
73	-	-	-	-	8 236	8 313	-	-	-

Current consumption in A

22	10.83	11.02	11.37	11.80	12.21	-	-	-	-
30	-	13.13	13.43	13.77	14.05	14.20	-	-	-
40	-	-	16.57	16.88	17.09	17.12	16.88	-	-
50	-	-	20.25	20.62	20.85	20.85	20.54	-	-
60	-	-	-	24.89	25.23	25.30	-	-	-
70	-	-	-	-	30.14	30.37	-	-	-
73	-	-	-	-	31.70	32.00	-	-	-

Mass flow in kg/h

22	193	243	302	371	450	-	-	-	-
30	-	240	300	369	449	542	-	-	-
40	-	-	295	364	446	540	650	-	-
50	-	-	288	358	439	534	645	-	-
60	-	-	-	348	429	525	-	-	-
70	-	-	-	-	417	512	-	-	-
73	-	-	-	-	413	507	-	-	-

Coefficient of performance (C.O.P.)

22	3.61	4.44	5.32	6.25	7.27	-	-	-	-
30	-	3.45	4.18	4.99	5.92	7.00	-	-	-
40	-	-	3.05	3.68	4.41	5.29	6.38	-	-
50	-	-	2.21	2.67	3.22	3.87	4.69	-	-
60	-	-	-	1.92	2.31	2.78	-	-	-
70	-	-	-	-	1.62	1.95	-	-	-
73	-	-	-	-	1.45	1.75	-	-	-

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	74	dB(A)
With acoustic hood	66	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	12 164	15 077	18 621	22 800	27 619	-	-	-	-
30	11 234	14 011	17 374	21 328	25 878	31 028	-	-	-
40	9 928	12 521	15 646	19 307	23 507	28 251	33 545	-	-
50	-	10 867	13 740	17 092	20 929	25 254	30 073	-	-
60	-	-	11 665	14 695	18 154	22 046	26 376	-	-
70	-	-	-	12 125	15 192	18 637	22 464	-	-
73	-	-	-	11 322	14 269	17 577	21 250	-	-

Power input in W

22	3 456	3 499	3 622	3 801	4 015	-	-	-	-
30	4 066	4 116	4 227	4 377	4 541	4 699	-	-	-
40	4 979	5 066	5 191	5 329	5 460	5 561	5 608	-	-
50	-	6 185	6 352	6 511	6 638	6 712	6 709	-	-
60	-	-	7 680	7 889	8 044	8 121	8 098	-	-
70	-	-	-	9 431	9 643	9 754	9 741	-	-
73	-	-	-	9 920	10 155	10 282	10 279	-	-

Current consumption in A

22	10.84	10.98	11.36	11.93	12.60	-	-	-	-
30	12.76	12.92	13.26	13.73	14.25	14.74	-	-	-
40	15.62	15.90	16.29	16.72	17.13	17.45	17.60	-	-
50	-	19.41	19.93	20.43	20.83	21.06	21.05	-	-
60	-	-	24.10	24.75	25.24	25.48	25.41	-	-
70	-	-	-	29.59	30.26	30.60	30.57	-	-
73	-	-	-	31.13	31.87	32.26	32.25	-	-

Mass flow in kg/h

22	261	321	389	465	551	-	-	-	-
30	257	318	387	465	552	649	-	-	-
40	250	312	383	462	550	649	757	-	-
50	-	304	375	455	544	644	753	-	-
60	-	-	364	444	534	634	744	-	-
70	-	-	-	430	520	620	731	-	-
73	-	-	-	425	515	615	725	-	-

Coefficient of performance (C.O.P.)

22	3.52	4.31	5.14	6.00	6.88	-	-	-	-
30	2.76	3.40	4.11	4.87	5.70	6.60	-	-	-
40	1.99	2.47	3.01	3.62	4.31	5.08	5.98	-	-
50	-	1.76	2.16	2.63	3.15	3.76	4.48	-	-
60	-	-	1.52	1.86	2.26	2.71	3.26	-	-
70	-	-	-	1.29	1.58	1.91	2.31	-	-
73	-	-	-	1.14	1.41	1.71	2.07	-	-

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

Cooling capacity	11 714	W
Power input	5 606	W
Current consumption	17.59	A
Mass flow	308	kg/h
C.O.P.	2.09	

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	78	dB(A)
With acoustic hood	70	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	12 359	15 253	18 764	22 898	27 665	-	-	-	-
30	-	14 270	17 597	21 493	25 965	31 028	-	-	-
40	-	-	15 968	19 555	23 647	28 251	33 388	-	-
50	-	-	14 158	17 424	21 121	25 254	29 834	-	-
60	-	-	-	15 105	18 398	22 046	-	-	-
70	-	-	-	-	15 486	18 637	-	-	-
73	-	-	-	-	14 577	17 577	-	-	-

Power input in W

22	3 456	3 499	3 622	3 801	4 015	-	-	-	-
30	-	4 116	4 227	4 377	4 541	4 699	-	-	-
40	-	-	5 191	5 329	5 460	5 561	5 608	-	-
50	-	-	6 352	6 511	6 638	6 712	6 709	-	-
60	-	-	-	7 889	8 044	8 121	-	-	-
70	-	-	-	-	9 643	9 754	-	-	-
73	-	-	-	-	10 155	10 282	-	-	-

Current consumption in A

22	10.84	10.98	11.36	11.93	12.60	-	-	-	-
30	-	12.92	13.26	13.73	14.25	14.74	-	-	-
40	-	-	16.29	16.72	17.13	17.45	17.60	-	-
50	-	-	19.93	20.43	20.83	21.06	21.05	-	-
60	-	-	-	24.75	25.24	25.48	-	-	-
70	-	-	-	-	30.26	30.60	-	-	-
73	-	-	-	-	31.87	32.26	-	-	-

Mass flow in kg/h

22	235	294	364	445	538	-	-	-	-
30	-	292	363	445	539	649	-	-	-
40	-	-	358	441	538	649	777	-	-
50	-	-	351	435	532	644	773	-	-
60	-	-	-	424	522	634	-	-	-
70	-	-	-	-	508	620	-	-	-
73	-	-	-	-	503	615	-	-	-

Coefficient of performance (C.O.P.)

22	3.58	4.36	5.18	6.02	6.89	-	-	-	-
30	-	3.47	4.16	4.91	5.72	6.60	-	-	-
40	-	-	3.08	3.67	4.33	5.08	5.95	-	-
50	-	-	2.23	2.68	3.18	3.76	4.45	-	-
60	-	-	-	1.91	2.29	2.71	-	-	-
70	-	-	-	-	1.61	1.91	-	-	-
73	-	-	-	-	1.44	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	78	dB(A)
With acoustic hood	70	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	12 063	15 148	18 622	22 589	27 152	-	-	-	-
20	10 762	13 743	17 056	20 803	25 088	30 013	35 680	-	-
30	9 498	12 204	15 182	18 537	22 372	26 789	31 892	37 782	44 559
40	-	10 641	13 113	15 902	19 114	22 852	27 218	32 315	38 246
50	-	-	10 959	13 010	15 425	18 309	21 765	25 897	30 809
60	-	-	-	-	11 414	13 270	15 641	18 635	22 355

Power input in W

10	3 899	3 818	3 817	3 884	4 009	-	-	-	-
20	4 733	4 655	4 648	4 699	4 800	4 939	5 105	-	-
30	5 783	5 714	5 706	5 748	5 829	5 940	6 069	6 205	6 338
40	-	7 044	7 041	7 078	7 146	7 234	7 330	7 426	7 509
50	-	-	8 700	8 738	8 798	8 869	8 939	8 999	9 037
60	-	-	-	-	10 835	10 893	10 943	10 972	10 971

Current consumption in A

10	16.08	15.75	15.74	16.02	16.53	-	-	-	-
20	19.52	19.20	19.17	19.38	19.79	20.37	21.05	-	-
30	23.85	23.57	23.53	23.70	24.04	24.50	25.03	25.59	26.14
40	-	29.05	29.03	29.19	29.47	29.83	30.23	30.62	30.97
50	-	-	35.88	36.04	36.28	36.57	36.86	37.11	37.27
60	-	-	-	-	44.68	44.92	45.13	45.25	45.24

Mass flow in kg/h

10	238	312	387	470	566	-	-	-	-
20	214	295	375	462	561	679	820	-	-
30	208	291	374	462	561	676	814	980	1 180
40	-	289	370	456	551	661	792	950	1 141
50	-	-	350	430	517	619	740	887	1 065
60	-	-	-	-	447	537	646	778	941

Coefficient of performance (C.O.P.)

10	3.09	3.97	4.88	5.82	6.77	-	-	-	-
20	2.27	2.95	3.67	4.43	5.23	6.08	6.99	-	-
30	1.64	2.14	2.66	3.23	3.84	4.51	5.26	6.09	7.03
40	-	1.51	1.86	2.25	2.67	3.16	3.71	4.35	5.09
50	-	-	1.26	1.49	1.75	2.06	2.43	2.88	3.41
60	-	-	-	-	1.05	1.22	1.43	1.70	2.04

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

Cooling capacity	17 317	W
Power input	7 927	W
Current consumption	32.69	A
Mass flow	538	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	74	dB(A)
With acoustic hood	66	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	11 592	14 659	18 145	22 154	26 788	-	-	-	-
20	10 120	13 051	16 352	20 127	24 483	29 521	35 340	-	-
30	8 687	11 312	14 257	17 627	21 530	26 073	31 363	37 498	44 559
40	7 386	9 547	11 975	14 775	18 055	21 929	26 512	31 916	38 246
50	-	-	9 613	11 690	14 186	17 218	20 913	25 400	30 809
60	-	-	-	-	10 044	12 072	14 698	18 070	22 355

Power input in W

10	3 899	3 818	3 817	3 884	4 009	-	-	-	-
20	4 733	4 655	4 648	4 699	4 800	4 939	5 105	-	-
30	5 783	5 714	5 706	5 748	5 829	5 940	6 069	6 205	6 338
40	7 099	7 044	7 041	7 078	7 146	7 234	7 330	7 426	7 509
50	-	-	8 700	8 738	8 798	8 869	8 939	8 999	9 037
60	-	-	-	-	10 835	10 893	10 943	10 972	10 971

Current consumption in A

10	16.08	15.75	15.74	16.02	16.53	-	-	-	-
20	19.52	19.20	19.17	19.38	19.79	20.37	21.05	-	-
30	23.85	23.57	23.53	23.70	24.04	24.50	25.03	25.59	26.14
40	29.28	29.05	29.03	29.19	29.47	29.83	30.23	30.62	30.97
50	-	-	35.88	36.04	36.28	36.57	36.86	37.11	37.27
60	-	-	-	-	44.68	44.92	45.13	45.25	45.24

Mass flow in kg/h

10	284	364	444	529	625	-	-	-	-
20	255	344	431	520	620	733	866	-	-
30	247	341	430	520	619	731	859	1 009	1 180
40	243	338	425	513	608	714	836	978	1 141
50	-	-	402	484	571	669	782	913	1 065
60	-	-	-	-	494	581	682	801	941

Coefficient of performance (C.O.P.)

10	2.97	3.84	4.75	5.70	6.68	-	-	-	-
20	2.14	2.80	3.52	4.28	5.10	5.98	6.92	-	-
30	1.50	1.98	2.50	3.07	3.69	4.39	5.17	6.04	7.03
40	1.04	1.36	1.70	2.09	2.53	3.03	3.62	4.30	5.09
50	-	-	1.11	1.34	1.61	1.94	2.34	2.82	3.41
60	-	-	-	-	0.93	1.11	1.34	1.65	2.04

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

Cooling capacity	16 162	W
Power input	7 927	W
Current consumption	32.69	A
Mass flow	594	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	74	dB(A)
With acoustic hood	66	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	14 572	17 872	21 928	26 824	32 641	-	-	-	-
20	13 229	16 313	20 021	24 436	29 641	35 719	42 750	-	-
30	11 739	14 577	17 907	21 813	26 376	31 682	37 810	44 844	52 862
40	-	12 626	15 549	18 915	22 808	27 311	32 507	38 479	45 308
50	-	-	12 905	15 703	18 895	22 567	26 801	31 682	37 292
60	-	-	-	-	14 601	17 411	20 655	24 416	28 780

Power input in W

10	4 287	4 543	4 727	4 877	5 028	-	-	-	-
20	5 251	5 534	5 734	5 888	6 032	6 203	6 436	-	-
30	6 414	6 719	6 931	7 086	7 220	7 369	7 570	7 859	8 272
40	-	8 213	8 433	8 585	8 704	8 828	8 993	9 234	9 589
50	-	-	10 351	10 496	10 598	10 693	10 818	11 008	11 301
60	-	-	-	-	13 014	13 076	13 157	13 293	13 519

Current consumption in A

10	13.45	14.25	14.83	15.30	15.78	-	-	-	-
20	16.48	17.36	17.99	18.47	18.93	19.46	20.20	-	-
30	20.13	21.08	21.75	22.23	22.65	23.12	23.75	24.66	25.96
40	-	25.77	26.46	26.94	27.31	27.70	28.22	28.98	30.09
50	-	-	32.48	32.93	33.25	33.55	33.94	34.54	35.46
60	-	-	-	-	40.83	41.03	41.28	41.71	42.42

Mass flow in kg/h

10	274	359	452	557	679	-	-	-	-
20	272	355	446	550	671	812	980	-	-
30	272	352	440	541	659	798	962	1 156	1 384
40	-	346	430	527	641	776	936	1 126	1 349
50	-	-	412	504	613	742	897	1 082	1 300
60	-	-	-	-	571	694	843	1 021	1 233

Coefficient of performance (C.O.P.)

10	3.40	3.93	4.64	5.50	6.49	-	-	-	-
20	2.52	2.95	3.49	4.15	4.91	5.76	6.64	-	-
30	1.83	2.17	2.58	3.08	3.65	4.30	4.99	5.71	6.39
40	-	1.54	1.84	2.20	2.62	3.09	3.61	4.17	4.72
50	-	-	1.25	1.50	1.78	2.11	2.48	2.88	3.30
60	-	-	-	-	1.12	1.33	1.57	1.84	2.13

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

Cooling capacity	20 897	W
Power input	9 593	W
Current consumption	30.10	A
Mass flow	628	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	78	dB(A)
With acoustic hood	70	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	14 003	17 296	21 367	26 307	32 204	-	-	-	-
20	12 440	15 492	19 195	23 642	28 926	35 134	42 344	-	-
30	10 736	13 512	16 816	20 742	25 384	30 835	37 183	44 507	52 862
40	8 864	11 327	14 200	17 574	21 544	26 208	31 664	38 004	45 308
50	-	-	11 321	14 110	17 377	21 223	25 752	31 074	37 292
60	-	-	-	-	12 848	15 840	19 408	23 676	28 780

Power input in W

10	4 287	4 543	4 727	4 877	5 028	-	-	-	-
20	5 251	5 534	5 734	5 888	6 032	6 203	6 436	-	-
30	6 414	6 719	6 931	7 086	7 220	7 369	7 570	7 859	8 272
40	7 888	8 213	8 433	8 585	8 704	8 828	8 993	9 234	9 589
50	-	-	10 351	10 496	10 598	10 693	10 818	11 008	11 301
60	-	-	-	-	13 014	13 076	13 157	13 293	13 519

Current consumption in A

10	13.45	14.25	14.83	15.30	15.78	-	-	-	-
20	16.48	17.36	17.99	18.47	18.93	19.46	20.20	-	-
30	20.13	21.08	21.75	22.23	22.65	23.12	23.75	24.66	25.96
40	24.75	25.77	26.46	26.94	27.31	27.70	28.22	28.98	30.09
50	-	-	32.48	32.93	33.25	33.55	33.94	34.54	35.46
60	-	-	-	-	40.83	41.03	41.28	41.71	42.42

Mass flow in kg/h

10	327	420	518	627	750	-	-	-	-
20	325	415	512	619	740	878	1 035	-	-
30	324	412	505	609	727	862	1 016	1 190	1 384
40	321	404	494	594	707	838	988	1 159	1 349
50	-	-	473	568	676	802	948	1 114	1 300
60	-	-	-	-	630	750	890	1 051	1 233

Coefficient of performance (C.O.P.)

10	3.27	3.81	4.52	5.39	6.41	-	-	-	-
20	2.37	2.80	3.35	4.02	4.80	5.66	6.58	-	-
30	1.67	2.01	2.43	2.93	3.52	4.18	4.91	5.66	6.39
40	1.12	1.38	1.68	2.05	2.48	2.97	3.52	4.12	4.72
50	-	-	1.09	1.34	1.64	1.98	2.38	2.82	3.30
60	-	-	-	-	0.99	1.21	1.48	1.78	2.13

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

Cooling capacity	19 503	W
Power input	9 593	W
Current consumption	30.10	A
Mass flow	693	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	78	dB(A)
With acoustic hood	70	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	-	10 514	13 501	17 179	21 509	26 447	31 952	37 983	44 496
35	-	9 972	12 615	16 017	20 137	24 934	30 367	36 395	42 974
40	-	9 642	11 869	14 921	18 756	23 335	28 618	34 563	41 128
45	-	-	11 291	13 919	17 395	21 680	26 735	32 519	38 991
50	-	-	-	13 038	16 082	19 999	24 749	30 294	36 592
55	-	-	-	-	14 845	18 320	22 690	27 918	33 964
60	-	-	-	-	-	16 670	20 586	25 420	31 133
65	-	-	-	-	-	-	18 462	22 825	28 126

Power input in W

30	-	6 084	6 252	6 349	6 405	6 451	6 520	6 642	6 849
35	-	6 693	6 896	7 013	7 074	7 111	7 156	7 240	7 395
40	-	7 339	7 585	7 730	7 805	7 842	7 872	7 926	8 037
45	-	-	8 337	8 519	8 617	8 662	8 686	8 720	8 796
50	-	-	-	9 400	9 529	9 591	9 617	9 639	9 689
55	-	-	-	-	10 559	10 647	10 685	10 704	10 735
60	-	-	-	-	-	11 849	11 907	11 931	11 954
65	-	-	-	-	-	-	13 303	13 342	13 364

Current consumption in A

30	-	25.54	25.72	25.90	26.09	26.26	26.42	26.56	26.66
35	-	27.13	27.25	27.38	27.52	27.67	27.80	27.93	28.03
40	-	28.85	28.91	29.00	29.10	29.22	29.34	29.47	29.58
45	-	-	30.84	30.88	30.95	31.05	31.16	31.29	31.41
50	-	-	-	33.15	33.20	33.28	33.39	33.51	33.65
55	-	-	-	-	35.95	36.02	36.13	36.27	36.43
60	-	-	-	-	-	39.41	39.52	39.67	39.86
65	-	-	-	-	-	-	43.67	43.85	44.06

Mass flow in kg/h

30	-	238	299	371	455	552	663	790	933
35	-	236	295	366	449	546	656	782	924
40	-	231	290	360	443	538	648	773	914
45	-	-	282	352	434	529	638	763	904
50	-	-	-	340	422	517	627	751	891
55	-	-	-	-	407	502	612	736	877
60	-	-	-	-	-	484	593	718	859
65	-	-	-	-	-	-	571	696	838

Coefficient of performance (C.O.P.)

30	-	1.73	2.16	2.71	3.36	4.10	4.90	5.72	6.50
35	-	1.49	1.83	2.28	2.85	3.51	4.24	5.03	5.81
40	-	1.31	1.56	1.93	2.40	2.98	3.64	4.36	5.12
45	-	-	1.35	1.63	2.02	2.50	3.08	3.73	4.43
50	-	-	-	1.39	1.69	2.09	2.57	3.14	3.78
55	-	-	-	-	1.41	1.72	2.12	2.61	3.16
60	-	-	-	-	-	1.41	1.73	2.13	2.60
65	-	-	-	-	-	-	1.39	1.71	2.10

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

Cooling capacity	17 395	W
Power input	8 617	W
Current consumption	30.95	A
Mass flow	434	kg/h
C.O.P.	2.02	

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, 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	9 264	11 758	14 749	18 311	22 516	-	-	-	-
20	8 170	10 592	13 461	16 851	20 836	25 490	30 887	-	-
30	-	-	11 928	15 085	18 787	23 110	28 126	33 909	40 534
40	-	-	-	13 081	16 439	20 367	24 940	30 232	36 315
50	-	-	-	-	13 858	17 331	21 399	26 137	31 617
60	-	-	-	-	-	-	17 571	21 692	26 507

Power input in W

10	3 492	3 493	3 518	3 576	3 679	-	-	-	-
20	4 364	4 336	4 328	4 352	4 416	4 531	4 706	-	-
30	-	-	5 399	5 373	5 384	5 443	5 560	5 745	6 009
40	-	-	-	6 795	6 739	6 728	6 772	6 881	7 065
50	-	-	-	-	8 636	8 541	8 498	8 516	8 607
60	-	-	-	-	-	-	10 891	10 805	10 787

Current consumption in A

10	23.04	23.10	23.14	23.17	23.20	-	-	-	-
20	23.58	23.65	23.70	23.74	23.79	23.87	24.00	-	-
30	-	-	24.60	24.63	24.67	24.73	24.84	25.02	25.27
40	-	-	-	26.25	26.24	26.26	26.33	26.46	26.68
50	-	-	-	-	28.93	28.87	28.87	28.93	29.08
60	-	-	-	-	-	-	32.89	32.85	32.90

Mass flow in kg/h

10	150	193	243	303	374	-	-	-	-
20	143	187	238	299	371	457	560	-	-
30	-	-	228	289	362	450	553	674	816
40	-	-	-	274	348	435	539	661	804
50	-	-	-	-	326	413	517	639	782
60	-	-	-	-	-	-	486	607	750

Coefficient of performance (C.O.P.)

10	2.65	3.37	4.19	5.12	6.12	-	-	-	-
20	1.87	2.44	3.11	3.87	4.72	5.63	6.56	-	-
30	-	-	2.21	2.81	3.49	4.25	5.06	5.90	6.75
40	-	-	-	1.93	2.44	3.03	3.68	4.39	5.14
50	-	-	-	-	1.60	2.03	2.52	3.07	3.67
60	-	-	-	-	-	-	1.61	2.01	2.46

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

Cooling capacity	15 173	W
Power input	7 610	W
Current consumption	27.41	A
Mass flow	338	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 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	9 302	11 816	14 832	18 424	22 662	-	-	-	-
20	8 099	10 524	13 405	16 816	20 831	25 519	30 944	-	-
30	6 787	9 057	11 737	14 903	18 631	22 993	28 060	33 891	40 534
40	-	-	9 904	12 760	16 135	20 107	24 750	30 133	36 315
50	-	-	-	10 462	13 419	16 935	21 088	25 958	31 617
60	-	-	-	-	10 558	13 549	17 146	21 436	26 507

Power input in W

10	3 492	3 493	3 518	3 576	3 679	-	-	-	-
20	4 364	4 336	4 328	4 352	4 416	4 531	4 706	-	-
30	5 525	5 453	5 399	5 373	5 384	5 443	5 560	5 745	6 009
40	-	-	6 885	6 795	6 739	6 728	6 772	6 881	7 065
50	-	-	-	8 773	8 636	8 541	8 498	8 516	8 607
60	-	-	-	-	11 230	11 036	10 891	10 805	10 787

Current consumption in A

10	23.04	23.10	23.14	23.17	23.20	-	-	-	-
20	23.58	23.65	23.70	23.74	23.79	23.87	24.00	-	-
30	24.53	24.58	24.60	24.63	24.67	24.73	24.84	25.02	25.27
40	-	-	26.27	26.25	26.24	26.26	26.33	26.46	26.68
50	-	-	-	29.02	28.93	28.87	28.87	28.93	29.08
60	-	-	-	-	33.16	33.00	32.89	32.85	32.90

Mass flow in kg/h

10	178	225	278	339	411	-	-	-	-
20	169	217	271	334	407	492	589	-	-
30	157	205	260	324	398	483	582	693	816
40	-	-	243	307	381	468	567	679	804
50	-	-	-	284	358	444	543	656	782
60	-	-	-	-	326	412	511	623	750

Coefficient of performance (C.O.P.)

10	2.66	3.38	4.22	5.15	6.16	-	-	-	-
20	1.86	2.43	3.10	3.86	4.72	5.63	6.58	-	-
30	1.23	1.66	2.17	2.77	3.46	4.22	5.05	5.90	6.75
40	-	-	1.44	1.88	2.39	2.99	3.65	4.38	5.14
50	-	-	-	1.19	1.55	1.98	2.48	3.05	3.67
60	-	-	-	-	0.94	1.23	1.57	1.98	2.46

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

Cooling capacity	14 800	W
Power input	7 610	W
Current consumption	27.41	A
Mass flow	371	kg/h
C.O.P.	1.94	

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	11 520	14 493	18 040	22 248	27 205	-	-	-	-
20	10 221	13 106	16 511	20 525	25 232	30 722	37 079	-	-
30	-	-	14 724	18 474	22 864	27 982	33 915	40 750	48 573
40	-	-	-	16 158	20 161	24 839	30 279	36 566	43 789
50	-	-	-	-	17 187	21 356	26 232	31 903	38 456
60	-	-	-	-	-	-	21 838	26 824	32 638

Power input in W

10	3 762	3 843	3 968	4 148	4 393	-	-	-	-
20	4 762	4 796	4 864	4 977	5 146	5 383	5 699	-	-
30	-	-	6 123	6 168	6 261	6 411	6 632	6 933	7 326
40	-	-	-	7 846	7 860	7 923	8 047	8 241	8 519
50	-	-	-	-	10 069	10 043	10 068	10 155	10 316
60	-	-	-	-	-	-	12 819	12 797	12 840

Current consumption in A

10	19.42	19.71	20.02	20.24	20.29	-	-	-	-
20	21.18	21.35	21.68	22.07	22.44	22.68	22.71	-	-
30	-	-	23.08	23.35	23.75	24.17	24.51	24.70	24.62
40	-	-	-	25.33	25.45	25.75	26.13	26.49	26.74
50	-	-	-	-	28.80	28.69	28.80	29.04	29.32
60	-	-	-	-	-	-	33.77	33.60	33.61

Mass flow in kg/h

10	187	238	298	368	452	-	-	-	-
20	179	231	292	364	449	551	672	-	-
30	-	-	281	354	441	544	667	810	978
40	-	-	-	339	426	530	654	799	969
50	-	-	-	-	404	509	633	780	951
60	-	-	-	-	-	-	603	750	922

Coefficient of performance (C.O.P.)

10	3.06	3.77	4.55	5.36	6.19	-	-	-	-
20	2.15	2.73	3.39	4.12	4.90	5.71	6.51	-	-
30	-	-	2.40	2.99	3.65	4.36	5.11	5.88	6.63
40	-	-	-	2.06	2.56	3.13	3.76	4.44	5.14
50	-	-	-	-	1.71	2.13	2.61	3.14	3.73
60	-	-	-	-	-	-	1.70	2.10	2.54

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

Cooling capacity	18 704	W
Power input	8 881	W
Current consumption	26.85	A
Mass flow	416	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		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	11 568	14 564	18 141	22 386	27 380	-	-	-	-
20	10 131	13 021	16 442	20 482	25 226	30 757	37 148	-	-
30	8 587	11 297	14 488	18 251	22 673	27 841	33 835	40 728	48 573
40	-	-	12 349	15 761	19 789	24 522	30 048	36 447	43 789
50	-	-	-	13 083	16 642	20 867	25 851	31 686	38 456
60	-	-	-	-	13 301	16 942	21 309	26 507	32 638

Power input in W

10	3 762	3 843	3 968	4 148	4 393	-	-	-	-
20	4 762	4 796	4 864	4 977	5 146	5 383	5 699	-	-
30	6 128	6 113	6 123	6 168	6 261	6 411	6 632	6 933	7 326
40	-	-	7 870	7 846	7 860	7 923	8 047	8 241	8 519
50	-	-	-	10 134	10 069	10 043	10 068	10 155	10 316
60	-	-	-	-	13 010	12 894	12 819	12 797	12 840

Current consumption in A

10	19.42	19.71	20.02	20.24	20.29	-	-	-	-
20	21.18	21.35	21.68	22.07	22.44	22.68	22.71	-	-
30	23.27	23.02	23.08	23.35	23.75	24.17	24.51	24.70	24.62
40	-	-	25.47	25.33	25.45	25.75	26.13	26.49	26.74
50	-	-	-	29.24	28.80	28.69	28.80	29.04	29.32
60	-	-	-	-	35.04	34.22	33.77	33.60	33.61

Mass flow in kg/h

10	221	277	340	412	497	-	-	-	-
20	212	269	333	407	493	593	707	-	-
30	199	256	321	396	484	585	701	832	978
40	-	-	303	379	468	570	688	821	969
50	-	-	-	355	444	547	666	801	951
60	-	-	-	-	411	515	635	771	922

Coefficient of performance (C.O.P.)

10	3.08	3.79	4.57	5.40	6.23	-	-	-	-
20	2.13	2.72	3.38	4.12	4.90	5.71	6.52	-	-
30	1.40	1.85	2.37	2.96	3.62	4.34	5.10	5.87	6.63
40	-	-	1.57	2.01	2.52	3.09	3.73	4.42	5.14
50	-	-	-	1.29	1.65	2.08	2.57	3.12	3.73
60	-	-	-	-	1.02	1.31	1.66	2.07	2.54

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

Cooling capacity	18 244	W
Power input	8 881	W
Current consumption	26.85	A
Mass flow	457	kg/h
C.O.P.	2.05	

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	9 264	11 758	14 749	18 311	22 516	-	-	-	-
20	8 170	10 592	13 461	16 851	20 836	25 490	30 887	-	-
30	-	-	11 928	15 085	18 787	23 110	28 126	33 909	40 534
40	-	-	-	13 081	16 439	20 367	24 940	30 232	36 315
50	-	-	-	-	13 858	17 331	21 399	26 137	31 617
60	-	-	-	-	-	-	17 571	21 692	26 507

Power input in W

10	3 492	3 493	3 518	3 576	3 679	-	-	-	-
20	4 364	4 336	4 328	4 352	4 416	4 531	4 706	-	-
30	-	-	5 399	5 373	5 384	5 443	5 560	5 745	6 009
40	-	-	-	6 795	6 739	6 728	6 772	6 881	7 065
50	-	-	-	-	8 636	8 541	8 498	8 516	8 607
60	-	-	-	-	-	-	10 891	10 805	10 787

Current consumption in A

10	23.04	23.10	23.14	23.17	23.20	-	-	-	-
20	23.58	23.65	23.70	23.74	23.79	23.87	24.00	-	-
30	-	-	24.60	24.63	24.67	24.73	24.84	25.02	25.27
40	-	-	-	26.25	26.24	26.26	26.33	26.46	26.68
50	-	-	-	-	28.93	28.87	28.87	28.93	29.08
60	-	-	-	-	-	-	32.89	32.85	32.90

Mass flow in kg/h

10	150	193	243	303	374	-	-	-	-
20	143	187	238	299	371	457	560	-	-
30	-	-	228	289	362	450	553	674	816
40	-	-	-	274	348	435	539	661	804
50	-	-	-	-	326	413	517	639	782
60	-	-	-	-	-	-	486	607	750

Coefficient of performance (C.O.P.)

10	2.65	3.37	4.19	5.12	6.12	-	-	-	-
20	1.87	2.44	3.11	3.87	4.72	5.63	6.56	-	-
30	-	-	2.21	2.81	3.49	4.25	5.06	5.90	6.75
40	-	-	-	1.93	2.44	3.03	3.68	4.39	5.14
50	-	-	-	-	1.60	2.03	2.52	3.07	3.67
60	-	-	-	-	-	-	1.61	2.01	2.46

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

Cooling capacity	15 173	W
Power input	7 610	W
Current consumption	27.41	A
Mass flow	338	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 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	9 282	11 794	14 810	18 401	22 640	-	-	-	-
20	8 078	10 501	13 380	16 792	20 808	25 499	30 928	-	-
30	6 766	9 033	11 711	14 877	18 606	22 971	28 042	33 880	40 534
40	-	-	9 878	12 733	16 109	20 083	24 731	30 122	36 315
50	-	-	-	10 435	13 392	16 910	21 068	25 946	31 617
60	-	-	-	-	10 531	13 525	17 125	21 424	26 507

Power input in W

10	3 492	3 493	3 518	3 576	3 679	-	-	-	-
20	4 364	4 336	4 328	4 352	4 416	4 531	4 706	-	-
30	5 525	5 453	5 399	5 373	5 384	5 443	5 560	5 745	6 009
40	-	-	6 885	6 795	6 739	6 728	6 772	6 881	7 065
50	-	-	-	8 773	8 636	8 541	8 498	8 516	8 607
60	-	-	-	-	11 230	11 036	10 891	10 805	10 787

Current consumption in A

10	23.04	23.10	23.14	23.17	23.20	-	-	-	-
20	23.58	23.65	23.70	23.74	23.79	23.87	24.00	-	-
30	24.53	24.58	24.60	24.63	24.67	24.73	24.84	25.02	25.27
40	-	-	26.27	26.25	26.24	26.26	26.33	26.46	26.68
50	-	-	-	29.02	28.93	28.87	28.87	28.93	29.08
60	-	-	-	-	33.16	33.00	32.89	32.85	32.90

Mass flow in kg/h

10	178	225	278	339	411	-	-	-	-
20	169	217	271	334	407	492	589	-	-
30	157	205	260	324	398	483	582	693	816
40	-	-	243	307	381	468	567	679	804
50	-	-	-	284	358	444	543	656	782
60	-	-	-	-	326	412	511	623	750

Coefficient of performance (C.O.P.)

10	2.66	3.38	4.21	5.15	6.15	-	-	-	-
20	1.85	2.42	3.09	3.86	4.71	5.63	6.57	-	-
30	1.22	1.66	2.17	2.77	3.46	4.22	5.04	5.90	6.75
40	-	-	1.43	1.87	2.39	2.98	3.65	4.38	5.14
50	-	-	-	1.19	1.55	1.98	2.48	3.05	3.67
60	-	-	-	-	0.94	1.23	1.57	1.98	2.46

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

Cooling capacity	14 773	W
Power input	7 610	W
Current consumption	27.41	A
Mass flow	371	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	11 520	14 493	18 040	22 248	27 205	-	-	-	-
20	10 221	13 106	16 511	20 525	25 232	30 722	37 079	-	-
30	-	-	14 724	18 474	22 864	27 982	33 915	40 750	48 573
40	-	-	-	16 158	20 161	24 839	30 279	36 566	43 789
50	-	-	-	-	17 187	21 356	26 232	31 903	38 456
60	-	-	-	-	-	-	21 838	26 824	32 638

Power input in W

10	3 762	3 843	3 968	4 148	4 393	-	-	-	-
20	4 762	4 796	4 864	4 977	5 146	5 383	5 699	-	-
30	-	-	6 123	6 168	6 261	6 411	6 632	6 933	7 326
40	-	-	-	7 846	7 860	7 923	8 047	8 241	8 519
50	-	-	-	-	10 069	10 043	10 068	10 155	10 316
60	-	-	-	-	-	-	12 819	12 797	12 840

Current consumption in A

10	19.42	19.71	20.02	20.24	20.29	-	-	-	-
20	21.18	21.35	21.68	22.07	22.44	22.68	22.71	-	-
30	-	-	23.08	23.35	23.75	24.17	24.51	24.70	24.62
40	-	-	-	25.33	25.45	25.75	26.13	26.49	26.74
50	-	-	-	-	28.80	28.69	28.80	29.04	29.32
60	-	-	-	-	-	-	33.77	33.60	33.61

Mass flow in kg/h

10	190	242	303	374	460	-	-	-	-
20	182	235	297	370	457	561	683	-	-
30	-	-	286	361	449	554	679	825	996
40	-	-	-	345	435	541	667	815	988
50	-	-	-	-	413	520	647	796	971
60	-	-	-	-	-	-	617	767	943

Coefficient of performance (C.O.P.)

10	3.06	3.77	4.55	5.36	6.19	-	-	-	-
20	2.15	2.73	3.39	4.12	4.90	5.71	6.51	-	-
30	-	-	2.40	2.99	3.65	4.36	5.11	5.88	6.63
40	-	-	-	2.06	2.56	3.13	3.76	4.44	5.14
50	-	-	-	-	1.71	2.13	2.61	3.14	3.73
60	-	-	-	-	-	-	1.70	2.10	2.54

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

Cooling capacity	18 704	W
Power input	8 881	W
Current consumption	26.85	A
Mass flow	425	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		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

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	11 543	14 537	18 114	22 359	27 354	-	-	-	-
20	10 105	12 993	16 413	20 453	25 198	30 732	37 129	-	-
30	8 560	11 267	14 457	18 219	22 643	27 814	33 814	40 715	48 573
40	-	-	12 316	15 728	19 757	24 493	30 024	36 433	43 789
50	-	-	-	13 049	16 609	20 836	25 826	31 671	38 456
60	-	-	-	-	13 268	16 911	21 284	26 492	32 638

Power input in W

10	3 762	3 843	3 968	4 148	4 393	-	-	-	-
20	4 762	4 796	4 864	4 977	5 146	5 383	5 699	-	-
30	6 128	6 113	6 123	6 168	6 261	6 411	6 632	6 933	7 326
40	-	-	7 870	7 846	7 860	7 923	8 047	8 241	8 519
50	-	-	-	10 134	10 069	10 043	10 068	10 155	10 316
60	-	-	-	-	13 010	12 894	12 819	12 797	12 840

Current consumption in A

10	19.42	19.71	20.02	20.24	20.29	-	-	-	-
20	21.18	21.35	21.68	22.07	22.44	22.68	22.71	-	-
30	23.27	23.02	23.08	23.35	23.75	24.17	24.51	24.70	24.62
40	-	-	25.47	25.33	25.45	25.75	26.13	26.49	26.74
50	-	-	-	29.24	28.80	28.69	28.80	29.04	29.32
60	-	-	-	-	35.04	34.22	33.77	33.60	33.61

Mass flow in kg/h

10	225	281	345	419	504	-	-	-	-
20	216	273	338	414	502	603	719	-	-
30	203	260	327	404	493	596	714	848	996
40	-	-	309	387	477	582	702	837	988
50	-	-	-	362	453	559	680	818	971
60	-	-	-	-	419	526	649	788	943

Coefficient of performance (C.O.P.)

10	3.07	3.78	4.56	5.39	6.23	-	-	-	-
20	2.12	2.71	3.37	4.11	4.90	5.71	6.52	-	-
30	1.40	1.84	2.36	2.95	3.62	4.34	5.10	5.87	6.63
40	-	-	1.56	2.00	2.51	3.09	3.73	4.42	5.14
50	-	-	-	1.29	1.65	2.07	2.57	3.12	3.73
60	-	-	-	-	1.02	1.31	1.66	2.07	2.54

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

Cooling capacity	18 211	W
Power input	8 881	W
Current consumption	26.85	A
Mass flow	466	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 : 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	10 496	13 095	16 191	19 843	24 108	-	-	-	-
20	9 304	11 851	14 834	18 311	22 340	26 979	32 286	-	-
30	-	10 402	13 200	16 431	20 153	24 423	29 299	34 838	41 100
40	-	-	11 331	14 244	17 587	21 416	25 790	30 766	36 402
50	-	-	-	-	14 682	17 999	21 799	26 140	31 080
60	-	-	-	-	-	14 212	17 368	21 002	25 174

Power input in W

10	3 598	3 634	3 677	3 744	3 849	-	-	-	-
20	4 462	4 509	4 547	4 590	4 653	4 753	4 903	-	-
30	-	5 590	5 639	5 676	5 716	5 773	5 863	6 001	6 202
40	-	-	7 021	7 070	7 103	7 136	7 183	7 261	7 383
50	-	-	-	-	8 881	8 907	8 930	8 965	9 027
60	-	-	-	-	-	11 154	11 170	11 180	11 199

Current consumption in A

10	23.13	23.17	23.24	23.34	23.50	-	-	-	-
20	23.87	23.93	24.00	24.08	24.18	24.32	24.51	-	-
30	-	24.93	25.04	25.13	25.23	25.33	25.45	25.61	25.82
40	-	-	26.62	26.77	26.90	27.01	27.12	27.23	27.36
50	-	-	-	-	29.47	29.64	29.77	29.88	29.99
60	-	-	-	-	-	33.47	33.68	33.84	33.96

Mass flow in kg/h

10	211	267	332	409	499	-	-	-	-
20	204	263	330	408	501	610	738	-	-
30	-	253	322	402	496	607	736	888	1 063
40	-	-	307	388	483	595	726	879	1 055
50	-	-	-	-	461	574	705	859	1 036
60	-	-	-	-	-	542	673	827	1 005

Coefficient of performance (C.O.P.)

10	2.92	3.60	4.40	5.30	6.26	-	-	-	-
20	2.09	2.63	3.26	3.99	4.80	5.68	6.59	-	-
30	-	1.86	2.34	2.89	3.53	4.23	5.00	5.81	6.63
40	-	-	1.61	2.01	2.48	3.00	3.59	4.24	4.93
50	-	-	-	-	1.65	2.02	2.44	2.92	3.44
60	-	-	-	-	-	1.27	1.55	1.88	2.25

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

Cooling capacity	16 174	W
Power input	7 939	W
Current consumption	28.06	A
Mass flow	473	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		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	10 157	12 747	15 853	19 535	23 853	-	-	-	-
20	8 830	11 343	14 315	17 810	21 890	26 614	32 036	-	-
30	7 388	9 745	12 508	15 740	19 506	23 870	28 891	34 622	41 100
40	5 880	8 005	10 481	13 375	16 752	20 680	25 224	30 448	36 402
50	-	-	8 285	10 764	13 674	17 089	21 080	25 721	31 080
60	-	-	-	-	10 312	13 133	16 492	20 475	25 174

Power input in W

10	3 598	3 634	3 677	3 744	3 849	-	-	-	-
20	4 462	4 509	4 547	4 590	4 653	4 753	4 903	-	-
30	5 512	5 590	5 639	5 676	5 716	5 773	5 863	6 001	6 202
40	6 815	6 941	7 021	7 070	7 103	7 136	7 183	7 261	7 383
50	-	-	8 758	8 836	8 881	8 907	8 930	8 965	9 027
60	-	-	-	-	11 117	11 154	11 170	11 180	11 199

Current consumption in A

10	23.13	23.17	23.24	23.34	23.50	-	-	-	-
20	23.87	23.93	24.00	24.08	24.18	24.32	24.51	-	-
30	24.79	24.93	25.04	25.13	25.23	25.33	25.45	25.61	25.82
40	26.17	26.42	26.62	26.77	26.90	27.01	27.12	27.23	27.36
50	-	-	29.00	29.26	29.47	29.64	29.77	29.88	29.99
60	-	-	-	-	33.21	33.47	33.68	33.84	33.96

Mass flow in kg/h

10	251	312	380	459	549	-	-	-	-
20	243	306	377	458	551	657	777	-	-
30	229	295	368	451	546	654	776	913	1 063
40	208	276	351	435	532	641	765	903	1 055
50	-	-	324	410	508	618	743	883	1 036
60	-	-	-	-	472	584	710	850	1 005

Coefficient of performance (C.O.P.)

10	2.82	3.51	4.31	5.22	6.20	-	-	-	-
20	1.98	2.52	3.15	3.88	4.70	5.60	6.53	-	-
30	1.34	1.74	2.22	2.77	3.41	4.13	4.93	5.77	6.63
40	0.86	1.15	1.49	1.89	2.36	2.90	3.51	4.19	4.93
50	-	-	0.95	1.22	1.54	1.92	2.36	2.87	3.44
60	-	-	-	-	0.93	1.18	1.48	1.83	2.25

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

Cooling capacity	15 250	W
Power input	7 939	W
Current consumption	28.06	A
Mass flow	521	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
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	12 884	16 082	19 925	24 484	29 828	-	-	-	-
20	11 480	14 540	18 159	22 409	27 359	33 079	39 637	-	-
30	-	12 885	16 220	20 101	24 596	29 776	35 711	42 468	50 116
40	-	-	14 107	17 558	21 538	26 118	31 369	37 358	44 156
50	-	-	-	-	18 183	22 104	26 610	31 772	37 660
60	-	-	-	-	-	17 733	21 435	25 710	30 630

Power input in W

10	4 118	4 206	4 308	4 460	4 700	-	-	-	-
20	5 055	5 182	5 270	5 359	5 484	5 685	5 997	-	-
30	-	6 378	6 519	6 609	6 685	6 786	6 948	7 209	7 606
40	-	-	8 052	8 209	8 301	8 367	8 444	8 569	8 780
50	-	-	-	-	10 330	10 427	10 484	10 539	10 628
60	-	-	-	-	-	12 964	13 066	13 115	13 149

Current consumption in A

10	21.96	21.64	21.45	21.41	21.56	-	-	-	-
20	22.37	22.39	22.44	22.54	22.72	22.98	23.36	-	-
30	-	23.22	23.59	23.90	24.18	24.45	24.72	25.03	25.39
40	-	-	25.21	25.81	26.27	26.62	26.86	27.04	27.16
50	-	-	-	-	29.32	29.82	30.11	30.23	30.19
60	-	-	-	-	-	34.37	34.80	34.94	34.81

Mass flow in kg/h

10	259	328	409	504	617	-	-	-	-
20	252	322	404	500	613	748	906	-	-
30	-	313	395	492	605	740	898	1 082	1 296
40	-	-	382	478	592	726	883	1 067	1 280
50	-	-	-	-	571	705	861	1 044	1 256
60	-	-	-	-	-	676	831	1 012	1 223

Coefficient of performance (C.O.P.)

10	3.13	3.82	4.63	5.49	6.35	-	-	-	-
20	2.27	2.81	3.45	4.18	4.99	5.82	6.61	-	-
30	-	2.02	2.49	3.04	3.68	4.39	5.14	5.89	6.59
40	-	-	1.75	2.14	2.59	3.12	3.71	4.36	5.03
50	-	-	-	-	1.76	2.12	2.54	3.01	3.54
60	-	-	-	-	-	1.37	1.64	1.96	2.33

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

Cooling capacity	19 898	W
Power input	9 264	W
Current consumption	27.66	A
Mass flow	582	kg/h
C.O.P.	2.15	

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	12 468	15 656	19 509	24 104	29 513	-	-	-	-
20	10 896	13 916	17 524	21 796	26 807	32 631	39 331	-	-
30	9 283	12 072	15 369	19 255	23 807	29 102	35 214	42 204	50 116
40	7 633	10 126	13 050	16 486	20 515	25 220	30 681	36 972	44 156
50	-	-	10 569	13 493	16 936	20 985	25 731	31 261	37 660
60	-	-	-	-	13 056	16 386	20 354	25 065	30 630

Power input in W

10	4 118	4 206	4 308	4 460	4 700	-	-	-	-
20	5 055	5 182	5 270	5 359	5 484	5 685	5 997	-	-
30	6 149	6 378	6 519	6 609	6 685	6 786	6 948	7 209	7 606
40	7 397	7 794	8 052	8 209	8 301	8 367	8 444	8 569	8 780
50	-	-	9 868	10 156	10 330	10 427	10 484	10 539	10 628
60	-	-	-	-	12 771	12 964	13 066	13 115	13 149

Current consumption in A

10	21.96	21.64	21.45	21.41	21.56	-	-	-	-
20	22.37	22.39	22.44	22.54	22.72	22.98	23.36	-	-
30	22.77	23.22	23.59	23.90	24.18	24.45	24.72	25.03	25.39
40	23.48	24.44	25.21	25.81	26.27	26.62	26.86	27.04	27.16
50	-	-	27.62	28.59	29.32	29.82	30.11	30.23	30.19
60	-	-	-	-	33.64	34.37	34.80	34.94	34.81

Mass flow in kg/h

10	308	383	468	566	679	-	-	-	-
20	300	376	462	561	675	806	954	-	-
30	288	365	452	552	666	797	946	1 112	1 296
40	271	349	437	537	651	782	930	1 097	1 280
50	-	-	415	514	629	759	907	1 073	1 256
60	-	-	-	-	598	728	875	1 041	1 223

Coefficient of performance (C.O.P.)

10	3.03	3.72	4.53	5.40	6.28	-	-	-	-
20	2.16	2.69	3.33	4.07	4.89	5.74	6.56	-	-
30	1.51	1.89	2.36	2.91	3.56	4.29	5.07	5.85	6.59
40	1.03	1.30	1.62	2.01	2.47	3.01	3.63	4.31	5.03
50	-	-	1.07	1.33	1.64	2.01	2.45	2.97	3.54
60	-	-	-	-	1.02	1.26	1.56	1.91	2.33

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

Cooling capacity	18 761	W
Power input	9 264	W
Current consumption	27.66	A
Mass flow	641	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 : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900