



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- 20 °C Suction Gas Return with add cooling
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	3.16	4.26	5.64	7.31	9.32	11.70	14.45	17.60			
15.0	2.86	3.89	5.18	6.77	8.67	10.90	13.50	16.55	19.95		
20.0	2.55	3.52	4.73	6.22	8.01	10.15	12.60	15.45	18.70	22.40	24.00
25.0	2.26	3.15	4.28	5.67	7.34	9.33	11.65	14.35	17.45	20.90	22.50
30.0	1.98	2.80	3.84	5.12	6.68	8.53	10.70	13.25	16.15	19.45	20.90
35.0	1.72	2.46	3.40	4.58	6.02	7.74	9.77	12.15	14.85	17.95	19.35
40.0		2.14	2.98	4.05	5.36	6.94	8.82	11.00	13.55	16.50	17.75
45.0		1.84	2.58	3.53	4.72	6.15	7.87	9.90	12.25	14.95	16.15
50.0		1.56	2.20	3.04	4.08	5.37	6.93	8.78	10.95	13.45	14.55
55.0			1.84	2.56	3.47	4.61	6.00	7.67	9.65	11.95	12.95
60.0			1.52	2.11	2.88	3.87	5.09	6.58	8.36		
62.0			1.40	1.94	2.65	3.57	4.73	6.14	7.84		

Cond °C	Power, kW										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	1.46	1.62	1.78	1.90	1.98	1.98	1.92	1.75			
15.0	1.47	1.67	1.86	2.03	2.15	2.22	2.21	2.12	1.94		
20.0	1.48	1.70	1.93	2.13	2.30	2.43	2.49	2.47	2.35	2.13	2.01
25.0	1.48	1.73	1.98	2.22	2.44	2.61	2.73	2.78	2.74	2.60	2.51
30.0	1.48	1.74	2.02	2.30	2.55	2.78	2.95	3.06	3.10	3.04	2.98
35.0	1.46	1.74	2.05	2.35	2.65	2.92	3.15	3.32	3.42	3.44	3.41
40.0		1.74	2.06	2.39	2.72	3.04	3.32	3.55	3.71	3.80	3.81
45.0		1.72	2.06	2.42	2.78	3.13	3.46	3.75	3.97	4.13	4.17
50.0		1.69	2.05	2.43	2.82	3.21	3.58	3.92	4.20	4.43	4.50
55.0			2.02	2.42	2.84	3.26	3.68	4.06	4.40	4.69	4.79
60.0			1.98	2.40	2.84	3.30	3.75	4.18	4.57		
62.0			1.97	2.39	2.84	3.30	3.77	4.22	4.63		

Cond °C	Current at 400 V, A										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	4.93	5.05	5.19	5.30	5.38	5.39	5.32	5.14			
15.0	4.94	5.09	5.25	5.41	5.53	5.61	5.61	5.51	5.30		
20.0	4.95	5.12	5.31	5.51	5.68	5.82	5.89	5.87	5.75	5.49	5.35
25.0	4.95	5.14	5.36	5.60	5.82	6.02	6.16	6.22	6.18	6.03	5.92
30.0	4.95	5.16	5.40	5.68	5.95	6.20	6.41	6.55	6.60	6.54	6.48
35.0	4.94	5.16	5.43	5.74	6.06	6.37	6.64	6.85	6.99	7.03	7.01
40.0		5.15	5.45	5.79	6.15	6.51	6.85	7.14	7.36	7.49	7.51
45.0		5.13	5.45	5.82	6.23	6.64	7.04	7.40	7.70	7.93	7.99
50.0		5.09	5.43	5.83	6.28	6.74	7.20	7.63	8.02	8.33	8.43
55.0			5.38	5.82	6.30	6.81	7.33	7.84	8.30	8.70	8.84
60.0			5.32	5.78	6.30	6.86	7.44	8.01	8.55		
62.0			5.28	5.75	6.29	6.87	7.47	8.06	8.64		

50 Hz

D2DC-50X

R404A Dew Point

Cond °C	Suction Mass Flow, g/s										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	17.60	23.80	31.60	41.10	52.70	66.50	82.70	101.50			
15.0	16.55	22.60	30.30	39.70	51.10	64.70	80.80	99.60	121.50		
20.0	15.50	21.40	28.90	38.10	49.40	62.80	78.70	97.40	119.00	144.50	155.50
25.0	14.35	20.10	27.40	36.40	47.50	60.70	76.50	95.00	116.50	142.00	153.50
30.0	13.25	18.75	25.80	34.60	45.40	58.50	74.00	92.40	114.00	139.50	150.50
35.0	12.15	17.40	24.20	32.70	43.30	56.10	71.40	89.60	111.00	136.50	148.00
40.0		16.05	22.50	30.80	41.00	53.50	68.60	86.60	108.00	133.50	145.00
45.0		14.75	20.80	28.70	38.50	50.70	65.50	83.40	104.50	130.00	141.50
50.0		13.45	19.15	26.60	36.00	47.80	62.30	80.00	101.50	127.00	138.50
55.0			17.50	24.40	33.40	44.80	59.00	76.50	97.80	123.50	135.50
60.0			15.95	22.30	30.70	41.70	55.60	73.00	94.50		
62.0			15.35	21.40	29.70	40.50	54.30	71.70	93.40		

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	2
Displacement @ 50 Hz, m³/h	16.8
Bore/Stroke, mm	63.6/30.5
Length/Width, mm	590/330
Height, mm	470
Net Weight, kg	132
Gross Weight, kg	141
Rotalock Discharge, inch	7/8
Suction, inch	1 3/8
Oil Quantity, l	2.3
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	295 x 279 (14)
Sound Pressure @ 1m, dBA	65
Sound Power, dBA	76
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	3922
Refrigerant's classification	A1

**COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)**

Maximum Operating Current, A	9
Locked Rotor Current, A	55
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

**ACCESSORIES OPTIONAL**

Adapter Kit	For Parallel Operation
Oil Control System	ALCO Trax-Oil OM3
Crankcase Heater	70 W Internal
Enclosure Class	IP 56
Check Valve	For unloaded start operation
Unloaded start	Available
Additional Cooling	70 W Vertical Air Flow Fan
Oil Pressure Switch	OPS2 Electronic Switch
Deep Oil Sump	Mounted

**MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
AWM	380-420 V / 3~ / 50 Hz	400	YYY	Y	1.00
EWL	220-240 V / 3~ / 50 Hz	230	Y/DELTA	DELTA	1.73
EWL	380-420 V / 3~ / 50 Hz	400		Y	1.00
EWM	380-420 V / 3~ / 50 Hz	400	Y/DELTA	DELTA	1.00
EWY	500-550 V / 3~ / 50 Hz	525	Y/DELTA	DELTA	0.76
AWR	220-240 V / 3~ / 50 Hz	230	YYY	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YYY	Y	0.76
TWY	500-550 V / 3~ / 50 Hz	525		DELTA	0.76
EWK	220-240 V / 3~ / 60 Hz	230	Y/DELTA	DELTA	2.10
EWK	380-420 V / 3~ / 60 Hz	380		Y	1.20
EWD	440-480 V / 3~ / 60 Hz	460	Y/DELTA	DELTA	1.00
AWX	380 V / 3~ / 60 Hz	380	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00