



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 25 °C Suction Gas Return with add cooling
- Maximum Evaporating Temperature

Suction Return Temperature 18.3°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	12.70	16.60	21.30	26.80	33.40	41.10	50.00	60.20			
15.0	11.65	15.45	19.95	25.30	31.60	38.90	47.30	57.10	68.10		
20.0	10.55	14.25	18.60	23.70	29.70	36.60	44.60	53.80	64.30	76.20	81.40
25.0	9.45	13.00	17.15	22.00	27.70	34.30	41.80	50.50	60.40	71.70	76.60
30.0	8.30	11.75	15.70	20.30	25.70	31.80	39.00	47.20	56.50	67.10	71.70
35.0	7.12	10.45	14.20	18.55	23.60	29.40	36.10	43.70	52.50	62.40	66.70
40.0		9.10	12.70	16.75	21.50	26.90	33.10	40.20	48.40	57.60	61.70
45.0		7.75	11.10	14.95	19.30	24.30	30.00	36.60	44.20	52.80	56.60
50.0		6.38	9.54	13.05	17.10	21.70	27.00	33.00	40.00	47.90	51.40
55.0			7.94	11.20	14.85	19.05	23.80	29.30	35.70	42.90	46.10

50 Hz

4DA-200

R404A Dew Point

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	5.10	5.71	6.21	6.59	6.81	6.87	6.73	6.37			
15.0	5.28	6.00	6.62	7.12	7.48	7.68	7.69	7.49	7.06		
20.0	5.39	6.23	6.97	7.61	8.10	8.45	8.61	8.58	8.32	7.82	7.55
25.0	5.44	6.40	7.27	8.04	8.68	9.17	9.50	9.63	9.55	9.24	9.04
30.0	5.41	6.49	7.50	8.41	9.20	9.85	10.35	10.65	10.75	10.60	10.50
35.0	5.30	6.52	7.66	8.71	9.66	10.45	11.15	11.60	11.90	11.95	11.90
40.0		6.46	7.75	8.95	10.05	11.05	11.85	12.55	13.00	13.25	13.30
45.0		6.32	7.75	9.11	10.40	11.55	12.55	13.40	14.05	14.50	14.65
50.0		6.09	7.67	9.19	10.65	11.95	13.15	14.20	15.05	15.70	15.95
55.0			7.50	9.19	10.80	12.30	13.70	14.90	16.00	16.85	17.15

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	15.00	15.50	15.96	16.33	16.58	16.65	16.51	16.11			
15.0	15.17	15.76	16.33	16.83	17.22	17.44	17.47	17.24	16.73		
20.0	15.28	15.99	16.68	17.31	17.85	18.24	18.44	18.42	18.11	17.49	17.14
25.0	15.33	16.16	16.98	17.77	18.47	19.03	19.43	19.61	19.53	19.14	18.89
30.0	15.30	16.26	17.23	18.18	19.05	19.81	20.41	20.81	20.96	20.82	20.67
35.0	15.18	16.28	17.42	18.53	19.60	20.56	21.37	22.00	22.40	22.52	22.48
40.0		16.21	17.52	18.82	20.08	21.26	22.30	23.18	23.83	24.22	24.30
45.0		16.03	17.52	19.02	20.50	21.90	23.19	24.32	25.24	25.92	26.11
50.0		15.73	17.41	19.13	20.83	22.47	24.01	25.41	26.62	27.59	27.91
55.0			17.18	19.12	21.06	22.96	24.77	26.44	27.95	29.23	29.68

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	71.20	93.30	120.00	152.00	190.50	236.00	289.00	351.00			
15.0	68.10	90.50	117.50	149.50	187.50	233.00	285.00	347.00	419.00		
20.0	64.60	87.30	114.50	146.50	184.50	229.00	282.00	343.00	414.00	497.00	534.00
25.0	60.60	83.60	111.00	143.00	180.50	225.00	277.00	338.00	409.00	492.00	529.00
30.0	56.00	79.40	106.50	139.00	176.50	220.00	272.00	333.00	403.00	486.00	523.00
35.0	50.80	74.60	102.00	134.00	171.50	215.00	267.00	327.00	397.00	480.00	517.00
40.0		69.20	96.80	128.50	166.00	209.00	260.00	320.00	390.00	473.00	510.00
45.0		63.00	90.80	122.50	159.50	203.00	253.00	313.00	383.00	466.00	503.00
50.0		55.90	84.00	116.00	152.50	195.50	246.00	305.00	375.00	459.00	496.00
55.0			76.30	108.00	145.00	187.50	238.00	297.00	368.00	452.00	490.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	4
Displacement @ 50 Hz, m <sup>3</sup> /h	56.0
Bore/Stroke, mm	63.5/50.8
Length/Width, mm	650/535
Height, mm	495
Net Weight, kg	196
Gross Weight, kg	212
Suction, inch	1 5/8
Discharge, inch	1 1/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	3.3
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	381 x 305 (18)
Sound Pressure @ 1m (MT), dBA	72
Sound Power (MT), dBA	83
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	71
Sound Power (HT), dBA	82
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	5 / 50 / 15 °C at 50 Hz
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	32.5
Locked Rotor Current, A	175
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

### **ACCESSORIES OPTIONAL**

<p>Additional Cooling Capacity Control Crankcase Heater Enclosure Class Oil Pressure Switch Unloaded start Deep Oil Sump Adapter Kit Check Valve Oil Control System</p>	<p>70 W Vertical Air Flow Fan Capacity Steps 50% 100 W Internal IP 56 OPS2 Electronic Switch Available Mounted For Parallel Operation For unloaded start operation ALCO Trax-Oil OM3</p>
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### **MOTOR OPTIONS**

<i><b>Motor Code</b></i>	<i><b>Power Supply</b></i>	<i><b>Nominal Voltage, V</b></i>	<i><b>Start Connection</b></i>	<i><b>DOL Connection</b></i>	<i><b>Amps Factor</b></i>
AWM	380-420 V / 3~ / 50 Hz	400	YY/Y	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
AWR	220-240 V / 3~ / 50 Hz	230	YY/Y	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YY/Y	Y	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
AWC	208-230 V / 3~ / 60 Hz	230	YY/Y	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00