



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- 0 °C Suction Gas Return
- 0 °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									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			6.39	8.52	11.15	14.25	17.85			
10.0			5.94	7.94	10.40	13.35	16.75	20.70	25.10	30.10
15.0			5.50	7.37	9.68	12.45	15.65	19.35	23.60	28.30
20.0			5.06	6.81	8.96	11.55	14.60	18.05	22.00	26.50
25.0			4.62	6.24	8.26	10.65	13.50	16.75	20.50	24.70
30.0			4.19	5.69	7.56	9.80	12.45	15.50	18.95	22.90
35.0			3.77	5.15	6.87	8.95	11.40	14.25	17.45	21.10
40.0				4.63	6.21	8.12	10.40	13.00	16.00	19.40
45.0					5.56	7.31	9.38	11.80	14.55	17.70
50.0					4.93	6.52	8.41	10.60	13.15	16.05
55.0						5.76	7.47	9.47	11.75	14.40
60.0						5.03	6.56	8.35	10.45	
62.0							6.20	7.91	9.90	

Cond °C	Power, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			2.38	2.64	2.86	3.01	3.05			
10.0			2.47	2.78	3.06	3.28	3.41	3.43	3.31	3.01
15.0			2.54	2.89	3.23	3.52	3.74	3.85	3.83	3.66
20.0			2.59	2.99	3.38	3.74	4.03	4.23	4.32	4.26
25.0			2.63	3.07	3.51	3.92	4.29	4.59	4.77	4.83
30.0			2.66	3.13	3.61	4.09	4.53	4.91	5.19	5.35
35.0			2.68	3.18	3.71	4.24	4.75	5.20	5.58	5.85
40.0				3.22	3.78	4.37	4.94	5.47	5.94	6.31
45.0					3.85	4.49	5.12	5.72	6.27	6.74
50.0					3.92	4.59	5.28	5.95	6.58	7.14
55.0						4.69	5.43	6.17	6.88	7.52
60.0						4.78	5.57	6.37	7.15	
62.0							5.62	6.45	7.26	

Cond °C	Current at 400 V, A									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			5.76	6.05	6.30	6.47	6.52			
10.0			5.85	6.20	6.52	6.78	6.94	6.96	6.79	6.41
15.0			5.92	6.32	6.72	7.07	7.34	7.48	7.47	7.25
20.0			5.98	6.43	6.89	7.33	7.71	7.98	8.11	8.06
25.0			6.02	6.52	7.05	7.57	8.05	8.45	8.72	8.83
30.0			6.06	6.60	7.19	7.80	8.38	8.89	9.30	9.57
35.0			6.08	6.66	7.31	8.00	8.68	9.31	9.85	10.28
40.0				6.71	7.42	8.18	8.95	9.70	10.38	10.95
45.0					7.51	8.35	9.21	10.07	10.88	11.60
50.0					7.59	8.50	9.45	10.41	11.35	12.22
55.0						8.63	9.67	10.74	11.80	12.81
60.0						8.75	9.87	11.04	12.23	
62.0							9.95	11.16	12.39	

50 Hz

D2DB-50X

R404A Dew Point

Cond °C	Suction Mass Flow, g/s									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0			34.20	45.70	60.00	77.00	97.10			
10.0			33.10	44.30	58.30	75.00	94.70	117.50	144.00	174.00
15.0			31.90	42.90	56.50	72.90	92.30	115.00	141.00	170.50
20.0			30.70	41.40	54.70	70.80	89.80	112.00	137.50	167.00
25.0			29.30	39.80	52.80	68.60	87.30	109.00	134.50	163.50
30.0			28.00	38.10	50.90	66.30	84.70	106.00	131.00	159.50
35.0			26.60	36.50	48.90	64.00	82.00	103.00	127.50	156.00
40.0				34.80	46.90	61.70	79.30	100.00	124.50	152.50
45.0					44.80	59.30	76.70	97.20	121.00	149.00
50.0					42.90	57.10	74.20	94.40	118.00	146.00
55.0						54.90	71.80	91.90	115.50	143.50
60.0						53.20	69.90	90.10	114.00	
62.0							69.40	89.60	113.50	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	2
Displacement @ 50 Hz, m ³ /h	28.0
Bore/Stroke, mm	66.7/46.1
Length/Width, mm	590/330
Height, mm	470
Net Weight, kg	131
Gross Weight, kg	140
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	64
Sound Power, dBA	75
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	13.4
Locked Rotor Current, A	55
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Springs	4
Oil Pressure Switch	OPS2 Sensor

ACCESSORIES OPTIONAL

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

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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
EWY	500-550 V / 3~ / 50 Hz	525	Y/DELTA	DELTA	0.76
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
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	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00