



Minimum Evaporating Temp. With:

■ 25 °C Suction Gas Return

■ Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
20.0	6.93	9.11	11.70	14.75					
25.0	6.36	8.45	10.95	13.85	17.30				
30.0	5.79	7.80	10.15	13.00	16.30	20.10	21.80	24.60	27.00
35.0	5.24	7.16	9.42	12.10	15.25	18.95	20.60	23.20	25.60
40.0	4.71	6.53	8.67	11.20	14.20	17.70	19.25	21.80	24.00
45.0	4.20	5.91	7.93	10.35	13.15	16.45	17.90	20.30	22.40
50.0	3.70	5.31	7.20	9.44	12.05	15.15	16.55	18.80	20.80
55.0	3.23	4.73	6.48	8.54	11.00	13.85	15.15	17.20	19.10
60.0	2.79	4.16	5.77	7.65	9.88	12.50	13.70	15.60	17.35
62.0			5.48	7.30	9.44	11.95	13.10	14.95	16.60

50 Hz

D2DB-50X

R134a

Cond °C	Power, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
20.0	2.27	2.41	2.50	2.51					
25.0	2.36	2.57	2.72	2.82	2.84				
30.0	2.44	2.71	2.93	3.10	3.20	3.22	3.21	3.16	3.09
35.0	2.52	2.84	3.12	3.36	3.53	3.64	3.65	3.66	3.63
40.0	2.59	2.96	3.30	3.60	3.84	4.02	4.07	4.11	4.13
45.0	2.65	3.06	3.45	3.81	4.11	4.36	4.44	4.54	4.59
50.0	2.70	3.14	3.58	3.99	4.36	4.67	4.78	4.92	5.01
55.0	2.74	3.21	3.68	4.14	4.56	4.94	5.07	5.25	5.38
60.0	2.77	3.26	3.76	4.26	4.73	5.16	5.32	5.54	5.70
62.0			3.78	4.30	4.79	5.24	5.41	5.64	5.82

Cond °C	Current at 400 V, A								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
20.0	5.69	5.83	5.92	5.94					
25.0	5.79	6.01	6.18	6.29	6.31				
30.0	5.89	6.17	6.42	6.62	6.74	6.77	6.75	6.68	6.59
35.0	5.97	6.32	6.65	6.93	7.15	7.28	7.30	7.30	7.27
40.0	6.05	6.45	6.85	7.21	7.52	7.76	7.82	7.89	7.92
45.0	6.11	6.57	7.03	7.47	7.87	8.20	8.31	8.45	8.53
50.0	6.17	6.66	7.19	7.70	8.19	8.62	8.77	8.97	9.11
55.0	6.21	6.74	7.32	7.90	8.47	9.00	9.19	9.46	9.66
60.0	6.24	6.80	7.42	8.07	8.72	9.33	9.57	9.90	10.16
62.0			7.45	8.13	8.80	9.46	9.71	10.07	10.35

Cond °C	Suction Mass Flow, g/s								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
20.0	41.60	53.60	67.50	83.50					
25.0	39.90	51.90	65.80	81.90	100.50				
30.0	38.10	50.10	64.10	80.10	98.50	119.50	128.50	143.00	156.00
35.0	36.20	48.30	62.20	78.20	96.60	117.50	126.50	141.00	154.00
40.0	34.30	46.40	60.30	76.20	94.40	115.00	124.50	139.00	152.00
45.0	32.30	44.40	58.20	74.00	92.00	112.50	121.50	136.00	149.00
50.0	30.30	42.40	56.00	71.50	89.40	109.50	118.50	133.00	145.50
55.0	28.30	40.20	53.60	68.90	86.40	106.50	115.00	129.00	141.50
60.0	26.30	38.10	51.20	66.00	83.00	102.50	111.00	124.50	136.50
62.0			50.10	64.80	81.50	100.50	109.00	122.50	134.50

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
Drive Frequency Range, Hz	25 - 60
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	1430
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

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

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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