



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 25 °C Suction Gas Return
- 0 °C Suction Gas Return
- 0 °C Suction Gas Return + fan
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Evaporating Temperature, °C

Liquid Subcooling 0.0K

Cond °C	Cooling Capacity, kW								
	45.0-	40.0-	35.0-	30.0-	25.0-	20.0-	15.0-	10.0-	5.0-
20.0		4.72	6.29	8.18	10.45	13.05	16.10	19.55	23.50
25.0		4.26	5.74	7.53	9.64	12.10	15.00	18.25	22.00
30.0			5.21	6.88	8.86	11.20	13.85	16.95	20.50
35.0			4.68	6.24	8.09	10.25	12.75	15.65	18.95
40.0			4.16	5.61	7.32	9.33	11.65	14.35	17.40
45.0				4.99	6.56	8.41	10.55	13.05	15.90
50.0				4.37	5.81	7.50	9.47	11.75	14.35
55.0					5.07	6.59	8.38	10.45	12.85

60Hz

D2SA-45X

R404A Dew Point

Cond °C	Power, kW								
	45.0-	40.0-	35.0-	30.0-	25.0-	20.0-	15.0-	10.0-	5.0-
20.0		2.93	3.38	3.79	4.14	4.43	4.64	4.75	4.74
25.0		2.94	3.44	3.91	4.34	4.72	5.02	5.24	5.35
30.0			3.48	4.01	4.51	4.97	5.37	5.69	5.92
35.0			3.49	4.08	4.65	5.19	5.68	6.10	6.44
40.0			3.48	4.13	4.76	5.37	5.95	6.47	6.92
45.0				4.15	4.84	5.53	6.18	6.79	7.35
50.0				4.15	4.90	5.65	6.38	7.08	7.74
55.0					4.93	5.74	6.55	7.34	8.09

Cond °C	Current at 380 V, A								
	45.0-	40.0-	35.0-	30.0-	25.0-	20.0-	15.0-	10.0-	5.0-
20.0		6.42	6.87	7.35	7.83	8.27	8.65	8.92	9.05
25.0		6.49	6.99	7.53	8.09	8.62	9.10	9.49	9.75
30.0			7.08	7.69	8.33	8.96	9.54	10.05	10.44
35.0			7.14	7.82	8.54	9.26	9.95	10.58	11.11
40.0			7.17	7.92	8.72	9.54	10.33	11.08	11.75
45.0				7.97	8.86	9.77	10.68	11.55	12.35
50.0				7.98	8.94	9.95	10.97	11.97	12.90
55.0					8.97	10.08	11.22	12.33	13.41

Cond °C	Mass Flow, g/s								
	45.0-	40.0-	35.0-	30.0-	25.0-	20.0-	15.0-	10.0-	5.0-
20.0		28.60	38.30	49.90	63.90	80.50	99.80	122.50	148.50
25.0		27.00	36.60	48.20	62.00	78.30	97.50	120.00	145.50
30.0			34.90	46.30	59.90	76.10	95.00	117.00	143.00
35.0			33.10	44.40	57.80	73.70	92.50	114.50	140.00
40.0			31.30	42.40	55.60	71.30	89.80	111.50	137.00
45.0				40.20	53.30	68.80	87.00	108.50	134.00
50.0				38.00	50.90	66.10	84.20	105.50	131.00
55.0					48.30	63.40	81.40	102.50	128.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	2
Displacement @ 60 Hz, m ³ /h	27
Bore/Stroke, mm	61.9/42.8
Length/Width, mm	560/330
Height, mm	395
Net Weight, kg	90
Gross Weight, kg	95
Suction, inch	1 1/8
Discharge, inch	7/8
Oil Quantity, l	2.4
Frequency Range, Hz	25 - 60
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 (14.0)
High Side PS, bar(g)	32.5
Low Side PS, bar(g)	22.5
Refrigerant's GWP	3922
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 60 Hz)

Maximum Operating Current, A	13.7
Locked Rotor Current, A	76.1
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	70 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Inverter	Emerson Industrial Automation, Unidrive M200 05 400 270

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
EWK	380-420 V / 3~ / 60 Hz	380		Y	1.00
EWL	220-240 V / 3~ / 50 Hz	230	Y/DELTA	DELTA	1.44
EWL	380-420 V / 3~ / 50 Hz	400		Y	0.83
EWM	380-420 V / 3~ / 50 Hz	400	Y/DELTA	DELTA	0.83
TWY	500-550 V / 3~ / 50 Hz	525		DELTA	0.63
EWK	220-240 V / 3~ / 60 Hz	230	Y/DELTA	DELTA	1.75
EWN	250-280 V / 3~ / 60 Hz	265	Y/DELTA	DELTA	1.44
EWN	440-480 V / 3~ / 60 Hz	460		Y	0.83
EWD	440-480 V / 3~ / 60 Hz	460	Y/DELTA	DELTA	0.83