



Minimum Evaporating Temp. With:

■ 25 °C Suction Gas Return

■ Maximum Evaporating Temperature

Suction Superheat 10.0K

Evaporating Temperature, °C

Liquid Subcooling 0.0K

Cond °C	Cooling Capacity, kW								
	20.0-	15.0-	10.0-	5.0-	0.0	5.0	7.0	10.0	12.5
10.0	16.30	20.90	26.40						
15.0	15.10	19.50	24.80	31.10					
20.0	13.90	18.15	23.20	29.20	36.20				
25.0	12.75	16.80	21.60	27.30	34.00	41.80			
30.0	11.55	15.40	20.00	25.40	31.80	39.20	42.50	47.80	52.50
35.0	10.40	14.10	18.45	23.60	29.60	36.70	39.80	44.80	49.30
40.0	9.30	12.75	16.90	21.80	27.50	34.10	37.10	41.90	46.20
45.0	8.22	11.50	15.35	19.95	25.30	31.60	34.40	39.00	43.00
50.0	7.20	10.25	13.90	18.20	23.20	29.20	31.80	36.10	40.00
55.0	6.25	9.11	12.50	16.45	21.20	26.70	29.20	33.30	36.90
60.0	5.36	8.00	11.10	14.80	19.20	24.40	26.70	30.50	33.90
62.0			10.60	14.15	18.40	23.40	25.70	29.40	32.70

Additional restrictions, please see application guidelines

50Hz

D4SF-100X

R134a

Cond °C	Power, kW								
	20.0-	15.0-	10.0-	5.0-	0.0	5.0	7.0	10.0	12.5
10.0	4.27	4.47	4.56						
15.0	4.55	4.86	5.06	5.13					
20.0	4.79	5.19	5.51	5.71	5.77				
25.0	4.99	5.48	5.91	6.24	6.44	6.49			
30.0	5.16	5.74	6.27	6.72	7.06	7.27	7.31	7.31	7.26
35.0	5.31	5.97	6.59	7.16	7.64	8.00	8.10	8.21	8.25
40.0	5.43	6.17	6.89	7.57	8.18	8.68	8.85	9.06	9.19
45.0	5.54	6.35	7.16	7.95	8.68	9.33	9.56	9.86	10.10
50.0	5.64	6.52	7.41	8.30	9.15	9.94	10.25	10.65	10.95
55.0	5.74	6.67	7.65	8.64	9.60	10.50	10.85	11.35	11.75
60.0	5.83	6.83	7.88	8.96	10.05	11.10	11.50	12.05	12.55
62.0			7.97	9.09	10.20	11.30	11.75	12.35	12.85

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
10.0	9.46	9.65	9.71						
15.0	9.72	10.04	10.25	10.30					
20.0	9.96	10.41	10.77	10.99	11.04				
25.0	10.19	10.75	11.25	11.65	11.90	11.96			
30.0	10.39	11.07	11.71	12.28	12.72	13.00	13.06	13.08	13.03
35.0	10.57	11.37	12.14	12.87	13.50	13.99	14.14	14.31	14.39
40.0	10.73	11.63	12.55	13.43	14.24	14.94	15.18	15.49	15.70
45.0	10.87	11.88	12.92	13.95	14.94	15.85	16.18	16.63	16.96
50.0	10.99	12.09	13.26	14.44	15.61	16.71	17.13	17.72	18.17
55.0	11.08	12.28	13.57	14.90	16.23	17.53	18.03	18.76	19.33
60.0	11.15	12.44	13.84	15.31	16.82	18.31	18.89	19.75	20.44
62.0			13.94	15.47	17.04	18.61	19.22	20.13	20.87

Additional restrictions, please see application guidelines

50Hz

D4SF-100X

R134a

Cond °C	Mass Flow, g/s								
	20.0-	15.0-	10.0-	5.0-	0.0	5.0	7.0	10.0	12.5
10.0	90.10	113.50	141.00						
15.0	86.90	110.00	137.50	169.00					
20.0	83.50	106.50	134.00	165.50	201.00				
25.0	79.80	103.00	130.00	161.50	197.00	238.00			
30.0	75.90	99.10	126.00	157.00	192.50	233.00	250.00	278.00	303.00
35.0	71.90	95.00	122.00	152.50	187.50	228.00	245.00	273.00	298.00
40.0	67.70	90.80	117.50	148.00	182.50	222.00	240.00	267.00	292.00
45.0	63.40	86.40	112.50	143.00	177.50	217.00	234.00	261.00	286.00
50.0	59.00	82.00	108.00	138.00	172.00	211.00	228.00	255.00	280.00
55.0	54.70	77.50	103.50	133.00	166.50	205.00	222.00	249.00	273.00
60.0	50.50	73.10	98.70	127.50	161.00	199.00	216.00	243.00	267.00
62.0			96.80	125.50	159.00	197.00	214.00	240.00	264.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	4
Displacement @ 50 Hz, m³/h	56
Bore/Stroke, mm	63.5/50.8
Length/Width, mm	680/485
Height, mm	495
Net Weight, kg	178
Gross Weight, kg	194
Rotalock Discharge, inch	1 1/8
Suction, inch	1 5/8
Oil Quantity, l	3.3
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	381 x 305 (18.0)
Sound Pressure @ 1m, dBA	72.4
Sound Power, dBA	83.4
High Side PS, bar(g)	32.5
Low Side PS, bar(g)	22.5
Refrigerant's GWP	1430
Refrigerant's classification	A1

Additional restrictions, please see application guidelines

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

Maximum Operating Current, A	27.1
Locked Rotor Current, A	105
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
Capacity Control	Capacity Steps 50%
Crankcase Heater	100 W Internal
Discharge Temperature Protection	Head PTC sensor
Enclosure Class	IP 56
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Deep Oil Sump	Mounted
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Oil Control System	ALCO Trax-Oil OM3
Inverter	Emerson Industrial Automation, Unidrive M200 06 400 420

Additional restrictions, please see application guidelines

**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
AWC	208-230 V / 3~ / 60 Hz	230	YYY	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00

Additional restrictions, please see application guidelines