



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 20 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	9.79	12.80	16.60	21.30	26.90	33.40	40.90	44.20	49.40	54.10
35.0	8.87	11.65	15.20	19.55	24.80	30.90	38.00	41.10	46.00	50.40
40.0	8.02	10.55	13.85	17.90	22.80	28.50	35.10	38.00	42.70	46.90
45.0		9.55	12.55	16.30	20.80	26.20	32.40	35.10	39.50	43.40
50.0		8.61	11.35	14.80	19.00	23.90	29.70	32.30	36.40	40.10
55.0			10.25	13.35	17.20	21.80	27.20	29.50	33.40	36.80
60.0			9.17	12.00	15.50	19.70	24.70	26.90	30.50	33.70

50 Hz

D3DC-100X

R407C Dew Point

Cond °C	Power, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	4.39	4.82	5.24	5.61	5.89	6.04	6.03	5.96	5.81	5.61
35.0	4.60	5.08	5.57	6.03	6.42	6.70	6.84	6.85	6.80	6.69
40.0	4.82	5.33	5.88	6.42	6.91	7.32	7.61	7.68	7.73	7.72
45.0		5.58	6.18	6.79	7.38	7.90	8.32	8.46	8.61	8.68
50.0		5.82	6.46	7.14	7.81	8.45	9.00	9.19	9.44	9.60
55.0			6.75	7.48	8.23	8.97	9.64	9.89	10.20	10.45
60.0			7.04	7.82	8.64	9.46	10.25	10.55	10.95	11.30

Cond °C	Current at 400 V, A									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	9.70	10.33	10.95	11.49	11.91	12.14	12.11	12.02	11.77	11.47
35.0	10.01	10.71	11.43	12.11	12.70	13.13	13.34	13.35	13.27	13.11
40.0	10.32	11.07	11.89	12.70	13.44	14.06	14.50	14.61	14.69	14.67
45.0		11.44	12.33	13.25	14.14	14.94	15.59	15.80	16.03	16.15
50.0		11.81	12.77	13.79	14.82	15.78	16.63	16.93	17.31	17.56
55.0			13.20	14.31	15.46	16.58	17.62	18.00	18.52	18.89
60.0			13.63	14.82	16.08	17.35	18.57	19.03	19.68	20.17

Cond °C	Suction Mass Flow, g/s									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	58.30	74.80	95.50	120.50	149.50	183.50	221.00	238.00	264.00	287.00
35.0	55.40	71.40	91.50	116.00	144.50	177.50	215.00	231.00	256.00	279.00
40.0	52.80	68.20	87.70	111.50	139.50	171.50	208.00	224.00	249.00	272.00
45.0		65.20	84.10	107.00	134.50	166.00	202.00	218.00	243.00	265.00
50.0		62.50	80.70	103.00	129.50	160.50	196.00	211.00	236.00	258.00
55.0			77.60	99.30	125.00	155.50	190.00	205.00	230.00	251.00
60.0			74.90	95.90	121.00	150.50	185.00	200.00	224.00	246.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	3
Displacement @ 50 Hz, m ³ /h	38.0
Bore/Stroke, mm	60.4/50.8
Length/Width, mm	680/370
Height, mm	480
Net Weight, kg	164
Gross Weight, kg	175
Rotalock Discharge, inch	1 1/8
Suction, inch	1 3/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	3.7
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, dBA	69
Sound Power, dBA	80
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	20.5
Locked Rotor Current, A	121
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

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