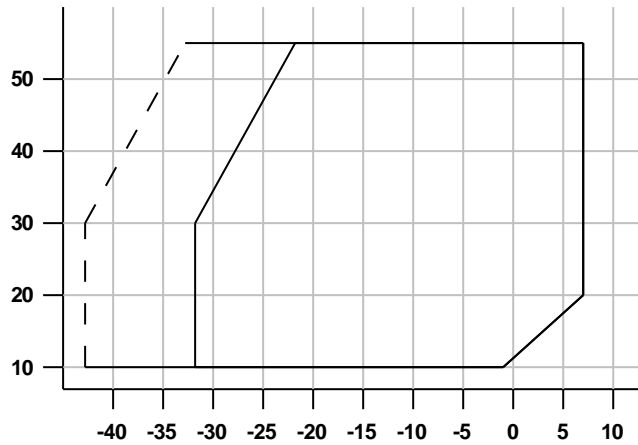


50Hz

3DC-100X

R404A Dew Point



Minimum evaporating temp. with:

———— 25°C Suction Gas Return

- - - - 25°C Suction Gas Return + Fan

Suction Return Temperature 20.0°C

Evaporating Temperature °C

Liquid subcooling 0.0K

Cond °C	Capacity kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	8.53	11.15	14.30	18.10	22.50	27.70	33.70	40.60	43.70	51.70	55.20
20	7.28	9.76	12.70	16.15	20.20	24.90	30.40	36.60	41.20	48.80	52.10
25	6.60	9.00	11.80	15.10	18.95	23.40	28.60	34.50	41.20	48.80	52.10
30	5.90	8.21	10.90	14.00	17.65	21.80	26.70	32.20	38.60	45.70	48.80
35	5.19	7.39	9.92	12.85	16.25	20.20	24.70	29.90	35.80	42.60	45.50
40		6.55	8.93	11.65	14.85	18.50	22.70	27.50	33.00	39.30	42.10
45		5.71	7.93	10.45	13.35	16.75	20.60	25.10	30.20	36.00	38.50
50		4.87	6.92	9.23	11.90	14.95	18.50	22.60	27.20	32.60	34.90
55			5.90	7.99	10.40	13.15	16.30	20.00	24.20	29.10	31.30
	Power Input kW										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	3.49	3.89	4.23	4.51	4.68	4.72	4.60	4.31	5.56	5.09	4.84
20	3.73	4.25	4.74	5.17	5.52	5.76	5.87	5.81	6.42	6.09	5.90
25	3.82	4.40	4.96	5.48	5.92	6.26	6.47	6.53	7.25	7.07	6.93
30	3.87	4.52	5.15	5.75	6.28	6.73	7.05	7.24	8.05	7.81	7.94
35	3.88	4.59	5.30	5.99	6.61	7.16	7.60	7.91	8.82	8.51	8.91
40		4.63	5.41	6.18	6.90	7.55	8.11	8.54	9.54	9.19	9.84
45		4.60	5.47	6.32	7.14	7.90	8.57	9.13	10.20	9.79	10.70
50		4.52	5.46	6.41	7.32	8.19	8.98	9.66	10.85	10.60	11.55
55			5.40	6.43	7.44	8.42	9.33	10.15	11.35	11.35	11.55
	Current 400V, A										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	9.22	9.57	9.91	10.21	10.41	10.47	10.34	9.97	11.45	10.83	10.48
20	9.42	9.92	10.44	10.94	11.37	11.68	11.83	11.77	13.26	12.56	12.13
25	9.51	10.09	10.70	11.31	11.86	12.31	12.61	12.71	14.20	13.45	13.26
30	9.56	10.22	10.94	11.66	12.34	12.93	13.38	13.65	15.14	14.35	14.16
35	9.56	10.32	11.14	11.98	12.79	13.53	14.14	14.58	16.07	15.16	14.66
40		10.35	11.28	12.25	13.20	14.09	14.86	15.48	17.47	16.46	16.04
45		10.30	11.35	12.45	13.54	14.58	15.53	16.33	18.46	17.32	17.39
50		10.15	11.32	12.56	13.80	15.00	16.13	17.12	19.45	18.52	18.68
55			11.19	12.56	13.96	15.33	16.63	17.82	20.00	19.65	19.90
	Mass Flow g/s										
	-40	-35	-30	-25	-20	-15	-10	-5	0	5	7
10	47.50	62.20	80.00	102.00	127.50	158.00	193.00	235.00	279.00	334.00	358.00
20	44.10	59.30	77.50	99.00	124.50	155.00	190.00	231.00	276.00	331.00	356.00
25	41.90	57.30	75.50	97.00	122.50	152.00	187.00	228.00	272.00	327.00	352.00
30	39.40	55.00	73.20	94.50	120.00	149.50	184.00	225.00	268.00	323.00	348.00
35	36.60	52.30	70.50	92.00	117.00	146.50	181.00	221.00	263.00	318.00	343.00
40		49.30	67.40	88.50	113.50	142.50	176.00	216.00	258.00	313.00	338.00
45		45.90	64.00	85.00	109.50	138.00	172.00	211.00	252.00	307.00	332.00
50		42.10	60.10	81.00	105.00	133.00	166.00	206.00	246.00	301.00	326.00
55			55.90	76.00	100.00	127.50	160.00	199.00	246.00	301.00	326.00

**DWM Copeland - Compressor - DWM Copeland - Discus**

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	3
Displacement @ 50 Hz, cu.m/h	38
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
Oil Quantity, l	3.7
Frequency Range, Hz	25 - 60
Base mounting (hole dia), mm	381 x 305 (18.0)
Sound Pressure @ 1m, dBA	70.3
Sound Power, dBA	81.3
High Side PS, bar(g)	28
Low Side PS, bar(g)	22.5

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

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**

Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Moduload
Crankcase Heater	70 W Internal
Enclosure Class	IP 56
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Deep Oil Sump	Mounted
Adapter Kit	For Parallel Operation
Check Valve (NRV)	For unloaded start operation
Oil Control System	ALCO Trax-Oil OM3
Inverter	Control Techniques SK 2403

**MOTOR OPTIONS**

<b>Power Supply</b>	<b>Nominal Voltage</b>	<b>Motor Code</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
380-420 V/3~/50H	400	AWM	YY/Y	Y	1.00
220-240 V/3~/50H	230	EWL	Y/DELTA	DELTA	1.73
380-420 V/3~/50H	400	EWL		Y	1.00
380-420 V/3~/50H	400	EWM	Y/DELTA	DELTA	1.00
500-550 V/3~/50H	525	EWY	Y/DELTA	DELTA	0.76
220-240 V/3~/50H	230	AWR	YY/Y	Y	1.73
500-550 V/3~/50H	525	AWY	YY/Y	Y	0.76
500-550 V/3~/50H	525	TWY		DELTA	0.76
220-240 V/3~/60H	230	EWK	Y/DELTA	DELTA	2.09
380-420 V/3~/60H	380	EWK		Y	1.20
440-480 V/3~/60H	460	EWD	Y/DELTA	DELTA	1.00
380 V/3~/60Hz	380	AWX	YY/Y	Y	1.20
440-480 V/3~/60H	460	AWD	YY/Y	Y	1.00