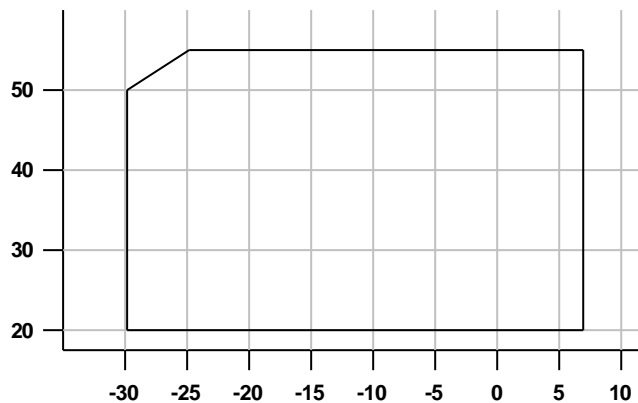


50Hz

D3SC-100X

R404A



Minimum evaporating temp. with:
 ——— 25°C Suction Gas Return

Suction Return Temperature 20.0°C **Evaporating Temperature °C** Liquid subcooling 0.0K

Cond °C	Capacity kW								
	-30	-25	-20	-15	-10	-5	0	5	7
20	11.55	14.75	18.55	23.10	28.40	34.50	41.50	49.50	52.90
25	10.65	13.70	17.30	21.60	26.50	32.30	38.90	46.30	49.50
30	9.77	12.65	16.00	20.00	24.70	30.00	36.10	43.10	46.10
35	8.89	11.55	14.75	18.45	22.80	27.70	33.40	39.90	42.70
40	8.01	10.50	13.45	16.90	20.90	25.40	30.70	36.60	39.20
45	7.13	9.45	12.15	15.30	18.90	23.10	27.90	33.30	35.70
50	6.24	8.38	10.85	13.70	16.95	20.80	25.10	30.00	32.20
55		7.30	9.52	12.05	15.00	18.40	22.20	26.70	28.60
	Power Input kW								
	-30	-25	-20	-15	-10	-5	0	5	7
20	4.81	5.33	5.79	6.17	6.45	6.59	6.58	6.38	6.24
25	4.99	5.58	6.14	6.62	7.02	7.29	7.42	7.37	7.30
30	5.12	5.80	6.44	7.03	7.54	7.94	8.20	8.30	8.29
35	5.22	5.97	6.70	7.39	8.00	8.53	8.92	9.17	9.22
40	5.28	6.09	6.91	7.69	8.42	9.06	9.59	9.98	10.10
45	5.29	6.18	7.07	7.95	8.78	9.54	10.20	10.75	10.90
50	5.26	6.22	7.19	8.16	9.09	9.96	10.75	11.40	11.65
55		6.21	7.26	8.31	9.34	10.30	11.25	12.05	12.30
	Current 400V, A								
	-30	-25	-20	-15	-10	-5	0	5	7
20	10.55	11.25	11.91	12.48	12.91	13.18	13.22	13.01	12.84
25	10.41	11.20	11.95	12.64	13.20	13.61	13.82	13.79	13.70
30	10.55	11.43	12.30	13.11	13.82	14.39	14.77	14.92	14.91
35	10.83	11.82	12.80	13.75	14.61	15.35	15.91	16.27	16.34
40	11.10	12.20	13.31	14.41	15.43	16.35	17.11	17.67	17.83
45	11.20	12.42	13.68	14.93	16.13	17.23	18.20	18.99	19.24
50	10.99	12.35	13.76	15.18	16.56	17.87	19.05	20.07	20.42
55		11.83	13.40	15.00	16.58	18.09	19.50	20.76	21.21
	Mass Flow g/s								
	-30	-25	-20	-15	-10	-5	0	5	7
20	70.70	90.50	115.00	144.00	178.00	219.00	266.00	321.00	345.00
25	68.40	88.50	112.50	141.00	175.00	215.00	261.00	315.00	340.00
30	66.00	86.00	109.50	138.00	171.00	210.00	256.00	310.00	334.00
35	63.50	83.00	106.50	134.50	167.00	206.00	251.00	304.00	328.00
40	60.70	80.00	103.50	130.50	163.00	201.00	246.00	298.00	321.00
45	57.80	77.00	100.00	126.50	158.00	196.00	240.00	291.00	314.00
50	54.50	73.60	96.00	122.50	153.00	190.00	233.00	284.00	307.00
55		69.90	92.00	118.00	148.00	184.00	227.00	277.00	300.00

50Hz

D3SC-100X

R404A

DWM Copeland - Compressor - Refrigeration - Standard**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	682/370
Height, mm	480
Net Weight, kg	159
Gross Weight, kg	174
Suction, inch	1 3/8
Discharge, inch	1 1/8
Oil Quantity, l	3.7
Frequency Range, Hz	25 - 60
Base mounting (hole dia), mm	381 x 305 (18.0)
High Side PS, bar(g)	28
Low Side PS, bar(g)	22.5

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

Maximum Operating Current, A	21.6
Locked Rotor Current, A	106
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

Additional Cooling	70W Vertical Air Flow Fan
Crankcase Heater	70W 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
Inverter	Control Techniques SK 3402

MOTOR OPTIONS

Power Supply	Nominal Voltage	Motor Code	Start Connection	DOL Connection	Amps Factor
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
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	1.26
440-480 V/3~/60H	460	EWD	Y/DELTA	DELTA	1.00
380 V/3~/60Hz	380	AWX	YY/Y	Y	1.26
440-480 V/3~/60H	460	AWD	YY/Y	Y	1.00

Model: D3SC-100X

Refrigerant: R404A

S.I.

Suction Return Temperature 20.0°C

Liquid subcooling 0.0K

50Hz

	Evaporating Temperature °C								
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
	Capacity kW								
20.0	11.55	14.75	18.55	23.10	28.40	34.50	41.50	49.50	52.90
25.0	10.65	13.70	17.30	21.60	26.50	32.30	38.90	46.30	49.50
30.0	9.77	12.65	16.00	20.00	24.70	30.00	36.10	43.10	46.10
35.0	8.89	11.55	14.75	18.45	22.80	27.70	33.40	39.90	42.70
40.0	8.01	10.50	13.45	16.90	20.90	25.40	30.70	36.60	39.20
45.0	7.13	9.45	12.15	15.30	18.90	23.10	27.90	33.30	35.70
50.0	6.24	8.38	10.85	13.70	16.95	20.80	25.10	30.00	32.20
55.0		7.30	9.52	12.05	15.00	18.40	22.20	26.70	28.60

	Power Input kW								
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
20.0	4.81	5.33	5.79	6.17	6.45	6.59	6.58	6.38	6.24
25.0	4.99	5.58	6.14	6.62	7.02	7.29	7.42	7.37	7.30
30.0	5.12	5.80	6.44	7.03	7.54	7.94	8.20	8.30	8.29
35.0	5.22	5.97	6.70	7.39	8.00	8.53	8.92	9.17	9.22
40.0	5.28	6.09	6.91	7.69	8.42	9.06	9.59	9.98	10.10
45.0	5.29	6.18	7.07	7.95	8.78	9.54	10.20	10.75	10.90
50.0	5.26	6.22	7.19	8.16	9.09	9.96	10.75	11.40	11.65
55.0		6.21	7.26	8.31	9.34	10.30	11.25	12.05	12.30

	COP								
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
20.0	2.40	2.77	3.21	3.75	4.41	5.24	6.31	7.75	8.47
25.0	2.14	2.45	2.82	3.26	3.78	4.43	5.24	6.28	6.79
30.0	1.91	2.18	2.49	2.85	3.27	3.78	4.41	5.19	5.56
35.0	1.70	1.94	2.20	2.50	2.84	3.25	3.75	4.35	4.63
40.0	1.52	1.72	1.95	2.19	2.48	2.81	3.20	3.67	3.89
45.0	1.35	1.53	1.72	1.92	2.15	2.42	2.74	3.11	3.28
50.0	1.19	1.35	1.51	1.68	1.87	2.08	2.33	2.63	2.76
55.0		1.18	1.31	1.45	1.61	1.78	1.98	2.22	2.32

	Current 400V, A								
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
20.0	10.55	11.25	11.91	12.48	12.91	13.18	13.22	13.01	12.84
25.0	10.41	11.20	11.95	12.64	13.20	13.61	13.82	13.79	13.70
30.0	10.55	11.43	12.30	13.11	13.82	14.39	14.77	14.92	14.91
35.0	10.83	11.82	12.80	13.75	14.61	15.35	15.91	16.27	16.34
40.0	11.10	12.20	13.31	14.41	15.43	16.35	17.11	17.67	17.83
45.0	11.20	12.42	13.68	14.93	16.13	17.23	18.20	18.99	19.24
50.0	10.99	12.35	13.76	15.18	16.56	17.87	19.05	20.07	20.42
55.0		11.83	13.40	15.00	16.58	18.09	19.50	20.76	21.21

Model: D3SC-100X

Refrigerant: R404A

	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
	Mass Flow g/s								
20.0	70.70	90.50	115.00	144.00	178.00	219.00	266.00	321.00	345.00
25.0	68.40	88.50	112.50	141.00	175.00	215.00	261.00	315.00	340.00
30.0	66.00	86.00	109.50	138.00	171.00	210.00	256.00	310.00	334.00
35.0	63.50	83.00	106.50	134.50	167.00	206.00	251.00	304.00	328.00
40.0	60.70	80.00	103.50	130.50	163.00	201.00	246.00	298.00	321.00
45.0	57.80	77.00	100.00	126.50	158.00	196.00	240.00	291.00	314.00
50.0	54.50	73.60	96.00	122.50	153.00	190.00	233.00	284.00	307.00
55.0		69.90	92.00	118.00	148.00	184.00	227.00	277.00	300.00

	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
	Heat Rejection kW								
20.0	16.10	19.80	24.10	29.00	34.50	40.80	47.80	55.50	58.80
25.0	15.40	19.00	23.10	27.90	33.20	39.20	45.90	53.30	56.40
30.0	14.65	18.15	22.10	26.70	31.80	37.60	43.90	51.00	54.00
35.0	13.85	17.25	21.10	25.50	30.40	35.80	41.90	48.60	51.40
40.0	13.00	16.30	20.00	24.20	28.90	34.00	39.80	46.10	48.80
45.0	12.15	15.30	18.85	22.80	27.30	32.20	37.60	43.50	46.10
50.0	11.25	14.30	17.65	21.40	25.60	30.20	35.30	40.90	43.20
55.0		13.20	16.40	19.95	23.90	28.20	32.90	38.10	40.30