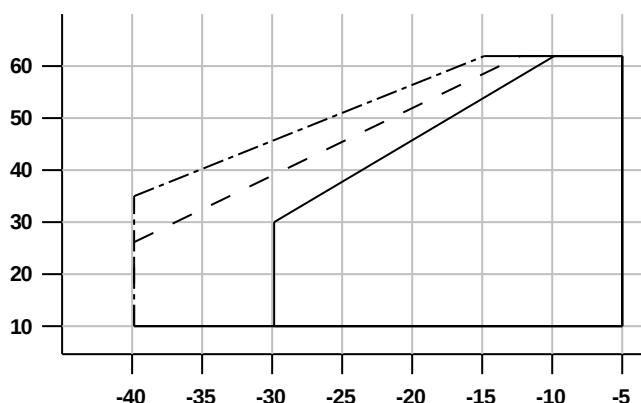


50Hz

D2SC-550

R22



Minimum evaporating temp. with:

——— 25°C Suction Gas Return

- - - 20K Suction Superheat

- . - . 20K Suction Superheat + 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
10			7.63	9.81	12.40	15.40	18.95	23.00
20			6.65	8.70	11.10	13.95	17.20	21.00
30			5.64	7.54	9.78	12.40	15.45	18.95
40					8.44	10.85	13.65	16.90
45					7.77	10.05	12.75	15.85
50						9.30	11.85	14.80
55							10.95	13.80
60							10.10	12.75
62							9.74	12.35
	Power Input kW							
	-40	-35	-30	-25	-20	-15	-10	-5
10			2.90	3.08	3.18	3.20	3.12	2.92
20			3.20	3.51	3.76	3.94	4.04	4.04
30			3.37	3.81	4.21	4.55	4.83	5.03
40					4.56	5.07	5.53	5.92
45					4.72	5.30	5.85	6.34
50						5.53	6.16	6.74
55							6.46	7.14
60							6.77	7.54
62							6.89	7.70
	Current 400V, A							
	-40	-35	-30	-25	-20	-15	-10	-5
10			6.09	6.39	6.58	6.65	6.57	6.30
20			6.54	6.96	7.31	7.56	7.69	7.67
30			6.88	7.42	7.93	8.36	8.71	8.94
40					8.46	9.08	9.65	10.12
45					8.69	9.41	10.09	10.69
50						9.73	10.52	11.25
55							10.93	11.79
60							11.34	12.33
62							11.50	12.54
	Mass Flow g/s							
	-40	-35	-30	-25	-20	-15	-10	-5
10			35.70	46.00	58.30	72.80	90.00	110.00
20			33.00	43.30	55.50	69.90	87.00	106.50
30			29.80	40.00	52.10	66.40	83.00	102.50
40					48.30	62.40	79.00	98.50
45					46.20	60.20	76.50	96.00
50						58.00	74.40	93.50
55							72.00	91.00
60							69.50	88.50
62							68.50	87.50

50Hz**D2SC-550****R22****DWM Copeland - Compressor - Refrigeration - Standard****COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	2
Displacement @ 50 Hz, cu.m/h	26.8
Bore/Stroke, mm	60.3/54.0
Length/Width, mm	560/330
Height, mm	395
Net Weight, kg	91
Gross Weight, kg	96
Suction, inch	1 1/8
Discharge, inch	7/8
Oil Quantity, l	2.4
Frequency Range, Hz	25 - 60
Base mounting (hole dia), mm	295 x 279 (14.0)
High Side PS, bar(g)	28
Low Side PS, bar(g)	22.5

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

Maximum Operating Current, A	12.8
Locked Rotor Current, A	74.1
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
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Adapter Kit	For Parallel Operation
Check Valve (NRV)	For unloaded start operation

MOTOR OPTIONS

<i>Power Supply</i>	<i>Nominal Voltage</i>	<i>Motor Code</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
380-420 V/3~/50H	400	EWL		Y	1.00
220-240 V/3~/50H	230	EWL	Y/DELTA	DELTA	1.73
380-420 V/3~/50H	400	EWM	Y/DELTA	DELTA	1.00
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
250-280 V/3~/60H	265	EWN	Y/DELTA	DELTA	1.73
440-480 V/3~/60H	460	EWN		Y	1.00
440-480 V/3~/60H	460	EWD	Y/DELTA	DELTA	1.00

Copeland Selection Software

REFRIGERANT

R22

Operating Conditions:

Evaporating Temperature: -10.0°C
 Condensing Temperature: 45.0°C
 Liquid subcooling: 0.0K
 Suction Return Temperature: 20.0°C

Required Capacity:**20.0 kW**

Compressor Selected:

D2SC-550

PERFORMANCE AT SPECIFIED OPERATING POINT D2SC-550 Data at 50 Hz

Capacity kW	12.75
Power Input kW	5.85
COP	2.18
Mass Flow g/s	76.50
Heat Rejection kW	18.30

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders 2	Bore/Stroke, mm 60.3/54.0
Length/Width, mm 560/330	Height, mm 395
Net Weight, kg 91	Gross Weight, kg 96
Suction, inch 1 1/8	Discharge, inch 7/8
Oil Quantity, l 2.4	Frequency Range, Hz 25 - 60
High Side PS, bar(g) 28	Low Side PS, bar(g) 22.5
Displacement @ 50 Hz, cu.m/h 26.8	
Base mounting (hole dia), mm 295 x 279 (14.0)	

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

Locked Rotor Current, A 74.1
 Maximum Operating Current, A 12.8
 Default Enclosure Class IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

Additional Cooling
Crankcase Heater
Oil Pressure Switch
Unloaded start
Adapter Kit
Check Valve (NRV)

70W Vertical Air Flow Fan
70W Internal
OPS2 Electronic Switch
Available
For Parallel Operation
For unloaded start operation