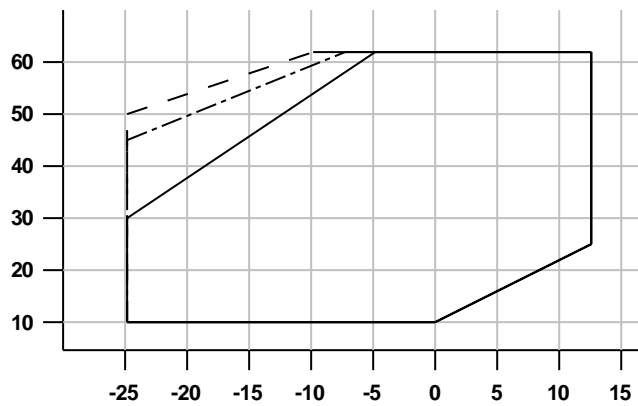


50Hz

D8SK-7000

R22



Minimum evaporating temp. with:

- 25°C Suction Gas Return
- - - 10K Suction Superheat + Fan
- · - · 20K Suction Superheat

Suction Return Temperature 20.0°C

Evaporating Temperature °C

Liquid subcooling 0.0K

Cond °C	Capacity kW									
	-25	-20	-15	-10	-5	0	5	7	10	12.5
10	75.60	95.00	118.50	146.50	179.50	219.00				
20	66.80	84.40	105.50	131.00	161.50	197.00	239.00	257.00		
30	58.90	74.70	93.80	117.00	144.00	176.50	214.00	231.00	258.00	283.00
40			82.90	103.50	127.50	156.50	191.00	206.00	231.00	253.00
45			77.70	96.90	120.00	147.00	179.50	194.00	217.00	238.00
50				90.70	112.50	138.00	168.50	182.00	204.00	224.00
55					105.00	129.00	157.50	170.00	191.00	210.00
60					97.50	120.00	146.50	158.50	178.00	196.00
62					94.60	116.50	142.50	154.00	173.00	190.50
	Power Input kW									
	-25	-20	-15	-10	-5	0	5	7	10	12.5
10	22.70	24.00	24.80	24.80	24.00	22.30				
20	25.50	27.80	29.70	31.10	31.70	31.60	30.50	29.80		
30	27.90	31.00	33.90	36.50	38.50	39.80	40.40	40.40	40.00	39.50
40			37.60	41.10	44.30	47.10	49.20	49.80	50.50	50.80
45			39.20	43.20	47.00	50.40	53.20	54.10	55.30	56.10
50				45.20	49.50	53.40	57.00	58.20	59.90	61.00
55					51.80	56.30	60.50	62.00	64.10	65.70
60					54.00	59.10	63.80	65.60	68.20	70.10
62					54.80	60.10	65.10	67.00	69.70	71.80
	Current 400V, A									
	-25	-20	-15	-10	-5	0	5	7	10	12.5
10	64.97	66.17	66.85	66.80	65.80	63.63				
20	66.91	69.10	71.00	72.40	73.08	72.82	71.39	70.44		
30	68.98	72.10	75.18	77.97	80.28	81.86	82.52	82.47	82.02	81.27
40			79.19	83.33	87.21	90.60	93.29	94.12	95.05	95.52
45			81.09	85.88	90.53	94.80	98.48	99.74	101.35	102.42
50				88.31	93.71	98.85	103.52	105.20	107.49	109.15
55					96.75	102.74	108.38	110.48	113.43	115.68
60					99.61	106.45	113.04	115.56	119.17	121.99
62					100.70	107.87	114.84	117.53	121.39	124.44
	Mass Flow g/s									
	-25	-20	-15	-10	-5	0	5	7	10	12.5
10	355.00	447.00	560.00	695.00	858.00	1050.00				
20	333.00	422.00	530.00	661.00	818.00	1005.00	1225.00	1330.00		
30	313.00	398.00	502.00	628.00	780.00	961.00	1175.00	1275.00	1435.00	1580.00
40			477.00	598.00	744.00	919.00	1130.00	1225.00	1380.00	1525.00
45			465.00	583.00	726.00	899.00	1105.00	1200.00	1355.00	1495.00
50				569.00	710.00	879.00	1085.00	1175.00	1330.00	1470.00
55					693.00	860.00	1060.00	1150.00	1305.00	1440.00
60					677.00	841.00	1040.00	1130.00	1280.00	1415.00
62					671.00	834.00	1030.00	1120.00	1270.00	1405.00

50Hz

D8SK-7000

R22

DWM Copeland - Compressor - Refrigeration - Standard**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	8
Displacement @ 50 Hz, cu.m/h	210
Bore/Stroke, mm	80.6/59.2
Length/Width, mm	904/541
Height, mm	610
Net Weight, kg	355
Gross Weight, kg	376
Suction, inch	3 1/8
Discharge, inch	2 1/8
Oil Quantity, l	7.6
Frequency Range, Hz	25 - 60
Base mounting (hole dia), mm	457 x 305 (18.0)
Sound Pressure @ 1m, dBA	78.8
Sound Power, dBA	89.8
High Side PS, bar(g)	28
Low Side PS, bar(g)	22.5

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

Maximum Operating Current, A	127
Locked Rotor Current, A	574
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4
Deep Oil Sump	Mounted

ACCESSORIES OPTIONAL

Additional Cooling	70W Vertical Air Flow Fan
Capacity Control	Capacity Steps 75/50%
Crankcase Heater	200W Internal
Discharge Temperature Protection	Head PTC sensor
Enclosure Class	IP 56
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Adapter Kit	For Parallel Operation
Check Valve (NRV)	For unloaded start operation

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
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
208-230 V/3~/60H	230	AWC	YY/Y	Y	2.19
380 V/3~/60Hz	380	AWX	YY/Y	Y	1.26
440-480 V/3~/60H	460	AWD	YY/Y	Y	1.00

Model: D8SK-7000

Refrigerant: R22

S.I.

Suction Return Temperature 20.0°C

Liquid subcooling 0.0K

50Hz

	Evaporating Temperature °C									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
	Capacity kW									
10.0	75.60	95.00	118.50	146.50	179.50	219.00				
15.0	71.10	89.60	112.00	138.50	170.50	208.00				
20.0	66.80	84.40	105.50	131.00	161.50	197.00	239.00	257.00		
25.0	62.70	79.50	99.60	124.00	152.50	186.50	226.00	244.00	273.00	299.00
30.0	58.90	74.70	93.80	117.00	144.00	176.50	214.00	231.00	258.00	283.00
35.0		70.20	88.30	110.00	136.00	166.50	202.00	218.00	244.00	268.00
40.0			82.90	103.50	127.50	156.50	191.00	206.00	231.00	253.00
45.0			77.70	96.90	120.00	147.00	179.50	194.00	217.00	238.00
50.0				90.70	112.50	138.00	168.50	182.00	204.00	224.00
55.0					105.00	129.00	157.50	170.00	191.00	210.00
60.0					97.50	120.00	146.50	158.50	178.00	196.00
62.0					94.60	116.50	142.50	154.00	173.00	190.50

	Power Input kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	22.70	24.00	24.80	24.80	24.00	22.30				
15.0	24.20	26.00	27.30	28.10	28.00	27.10				
20.0	25.50	27.80	29.70	31.10	31.70	31.60	30.50	29.80		
25.0	26.70	29.50	31.90	33.90	35.20	35.80	35.60	35.20	34.30	33.30
30.0	27.90	31.00	33.90	36.50	38.50	39.80	40.40	40.40	40.00	39.50
35.0		32.40	35.80	38.90	41.50	43.60	44.90	45.20	45.40	45.30
40.0			37.60	41.10	44.30	47.10	49.20	49.80	50.50	50.80
45.0			39.20	43.20	47.00	50.40	53.20	54.10	55.30	56.10
50.0				45.20	49.50	53.40	57.00	58.20	59.90	61.00
55.0					51.80	56.30	60.50	62.00	64.10	65.70
60.0					54.00	59.10	63.80	65.60	68.20	70.10
62.0					54.80	60.10	65.10	67.00	69.70	71.80

	COP									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	3.33	3.95	4.78	5.90	7.47	9.82				
15.0	2.94	3.45	4.09	4.94	6.08	7.67				
20.0	2.62	3.04	3.56	4.22	5.08	6.23	7.83	8.65		
25.0	2.35	2.70	3.12	3.66	4.33	5.20	6.36	6.93	7.94	8.98
30.0	2.11	2.41	2.77	3.20	3.74	4.43	5.30	5.72	6.46	7.18
35.0		2.16	2.47	2.83	3.27	3.82	4.51	4.83	5.38	5.91
40.0			2.21	2.51	2.88	3.33	3.88	4.14	4.57	4.98
45.0			1.98	2.24	2.55	2.92	3.37	3.58	3.93	4.25
50.0				2.01	2.27	2.58	2.96	3.13	3.41	3.67
55.0					2.02	2.29	2.60	2.74	2.98	3.19
60.0					1.81	2.03	2.30	2.42	2.61	2.79
62.0					1.73	1.94	2.19	2.30	2.48	2.65

Model: D8SK-7000

Refrigerant: R22

	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
	Mass Flow g/s									
10.0	355.00	447.00	560.00	695.00	858.00	1050.00				
15.0	343.00	434.00	544.00	678.00	837.00	1030.00				
20.0	333.00	422.00	530.00	661.00	818.00	1005.00	1225.00	1330.00		
25.0	322.00	410.00	516.00	644.00	798.00	983.00	1200.00	1300.00	1465.00	1610.00
30.0	313.00	398.00	502.00	628.00	780.00	961.00	1175.00	1275.00	1435.00	1580.00
35.0		387.00	489.00	613.00	761.00	940.00	1155.00	1250.00	1405.00	1550.00
40.0			477.00	598.00	744.00	919.00	1130.00	1225.00	1380.00	1525.00
45.0			465.00	583.00	726.00	899.00	1105.00	1200.00	1355.00	1495.00
50.0				569.00	710.00	879.00	1085.00	1175.00	1330.00	1470.00
55.0					693.00	860.00	1060.00	1150.00	1305.00	1440.00
60.0					677.00	841.00	1040.00	1130.00	1280.00	1415.00
62.0					671.00	834.00	1030.00	1120.00	1270.00	1405.00

	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
	Heat Rejection kW									
10.0	97.20	118.00	142.00	170.00	202.00	240.00				
15.0	94.00	114.50	138.00	165.00	197.00	233.00				
20.0	91.00	111.00	134.00	160.50	191.50	227.00	268.00	286.00		
25.0	88.10	107.50	130.00	156.00	186.00	221.00	260.00	277.00	305.00	330.00
30.0	85.30	104.00	126.00	151.50	180.50	214.00	253.00	269.00	296.00	321.00
35.0		101.00	122.50	147.00	175.00	208.00	245.00	261.00	288.00	311.00
40.0			118.50	142.50	170.00	201.00	237.00	253.00	279.00	301.00
45.0			115.00	138.00	164.50	195.00	230.00	245.00	270.00	292.00
50.0				133.50	159.50	189.00	222.00	237.00	261.00	282.00
55.0					154.00	182.50	215.00	229.00	252.00	272.00
60.0					149.00	176.00	207.00	221.00	243.00	263.00
62.0					146.50	173.50	204.00	218.00	239.00	259.00

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: D8SK-7000

PERFORMANCE AT SPECIFIED OPERATING POINT D8SK-7000 Data at 50 Hz

Capacity kW	96.90
Power Input kW	43.20
COP	2.24
Mass Flow g/s	583.00
Heat Rejection kW	138.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders 8	Bore/Stroke, mm 80.6/59.2
Length/Width, mm 904/541	Height, mm 610
Net Weight, kg 355	Gross Weight, kg 376
Suction, inch 3 1/8	Discharge, inch 2 1/8
Oil Quantity, l 7.6	Frequency Range, Hz 25 - 60
Sound Power, dBA 89.8	High Side PS, bar(g) 28
Low Side PS, bar(g) 22.5	
Displacement @ 50 Hz, cu.m/h 210	
Base mounting (hole dia), mm 457 x 305 (18.0)	
Sound Pressure @ 1m, dBA 78.8	

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

Locked Rotor Current, A 574
 Maximum Operating Current, A 127
 Default Enclosure Class IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4
Deep Oil Sump	Mounted

ACCESSORIES OPTIONAL

Additional Cooling	70W Vertical Air Flow Fan
Capacity Control	Capacity Steps 75/50%
Crankcase Heater	200W Internal
Discharge Temperature Protection	Head PTC sensor
Enclosure Class	IP 56
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Adapter Kit	For Parallel Operation
Check Valve (NRV)	For unloaded start operation