



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 20 K Suction Superheat
- 20 K Suction Superheat with add cooling
- 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	15.0
10.0	48.60	63.60	81.90	104.00	129.50	159.50					
15.0	45.00	59.50	77.10	98.00	122.50	151.50	184.50				
20.0	41.40	55.30	72.10	92.10	115.50	143.00	174.50	188.50	211.00		
25.0	37.70	51.10	67.20	86.20	108.50	134.50	164.50	177.50	198.50	218.00	238.00
30.0	34.10	46.90	62.20	80.30	101.50	126.00	154.50	167.00	187.00	205.00	224.00
35.0	30.50	42.80	57.30	74.30	94.30	117.50	144.50	156.00	175.00	192.00	210.00
40.0	26.90	38.60	52.30	68.40	87.20	109.00	134.00	145.50	163.00	179.00	196.00
45.0	23.40	34.50	47.40	62.50	80.10	100.50	124.00	134.50	151.00	166.00	182.00
50.0	19.90	30.40	42.50	56.60	73.00	92.10	114.00	123.50	139.50	153.50	168.00
55.0		26.40	37.70	50.80	66.00	83.60	104.00	113.00	127.50	140.50	154.50
60.0			33.00	45.10	59.10	75.30	94.00	102.50	115.50	127.50	140.50
65.0				39.50	52.30	67.00	84.20	91.70	104.00	115.00	127.00

Cond °C	Power, kW										
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	14.20	15.30	16.05	16.50	16.55	16.20					
15.0	15.25	16.60	17.70	18.45	18.90	18.90	18.40				
20.0	16.15	17.80	19.25	20.40	21.20	21.60	21.50	21.40	21.00		
25.0	16.95	18.90	20.70	22.20	23.40	24.20	24.60	24.70	24.60	24.30	24.00
30.0	17.55	19.85	22.00	23.90	25.50	26.70	27.60	27.80	28.00	28.10	28.00
35.0	17.95	20.60	23.10	25.40	27.40	29.10	30.50	30.90	31.40	31.70	31.90
40.0	18.10	21.10	24.00	26.70	29.20	31.40	33.20	33.90	34.70	35.20	35.70
45.0	18.00	21.40	24.70	27.80	30.70	33.40	35.80	36.60	37.70	38.60	39.30
50.0	17.55	21.30	25.00	28.60	32.00	35.20	38.10	39.10	40.60	41.70	42.70
55.0		20.90	25.10	29.10	33.00	36.70	40.10	41.40	43.20	44.60	45.90
60.0			24.70	29.30	33.70	37.90	41.80	43.30	45.50	47.20	48.80
65.0				29.00	33.90	38.70	43.20	45.00	47.50	49.50	51.50

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	15.0
10.0	39.48	39.97	40.15	39.93	39.22	37.93					
15.0	41.73	42.68	43.37	43.71	43.61	42.99	41.74				
20.0	43.39	44.79	45.99	46.89	47.41	47.45	46.92	46.53	45.74		
25.0	44.52	46.38	48.08	49.54	50.66	51.36	51.54	51.45	51.13	50.66	50.02
30.0	45.17	47.48	49.69	51.70	53.43	54.78	55.67	55.88	56.02	55.95	55.72
35.0	45.41	48.16	50.87	53.43	55.76	57.77	59.37	59.87	60.47	60.80	60.98
40.0	45.28	48.48	51.68	54.79	57.72	60.37	62.67	63.47	64.53	65.26	65.84
45.0	44.84	48.48	52.18	55.83	59.35	62.66	65.66	66.75	68.26	69.38	70.38
50.0	44.15	48.23	52.41	56.61	60.72	64.67	68.36	69.75	71.71	73.23	74.63
55.0		47.78	52.45	57.18	61.88	66.47	70.85	72.53	74.95	76.86	78.66
60.0			52.33	57.59	62.88	68.11	73.18	75.15	78.02	80.31	82.52
65.0				57.91	63.78	69.64	75.40	77.66	80.97	83.66	86.26

50 Hz

D6SK-500X

R407C Dew Point

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	15.0	
10.0	245.00	316.00	401.00	502.00	618.00	752.00						
15.0	236.00	307.00	392.00	491.00	606.00	738.00	888.00					
20.0	226.00	297.00	381.00	480.00	593.00	724.00	872.00	936.00	1038.00			
25.0	215.00	286.00	370.00	467.00	580.00	708.00	854.00	918.00	1019.00	1108.00	1203.00	
30.0	203.00	275.00	358.00	454.00	565.00	692.00	836.00	898.00	998.00	1086.00	1179.00	
35.0	190.50	262.00	345.00	440.00	550.00	675.00	816.00	878.00	976.00	1063.00	1155.00	
40.0	177.00	249.00	332.00	426.00	534.00	656.00	796.00	856.00	953.00	1038.00	1129.00	
45.0	162.50	235.00	317.00	411.00	517.00	637.00	774.00	834.00	928.00	1013.00	1102.00	
50.0	147.50	220.00	302.00	394.00	499.00	618.00	752.00	810.00	903.00	986.00	1074.00	
55.0		205.00	286.00	378.00	480.00	597.00	729.00	786.00	877.00	959.00	1045.00	
60.0			270.00	360.00	461.00	576.00	705.00	761.00	851.00	931.00	1015.00	
65.0				342.00	442.00	554.00	681.00	736.00	824.00	902.00	986.00	

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	6
Displacement @ 50 Hz, m³/h	152
Bore/Stroke, mm	80.6/57.0
Length/Width, mm	770/570
Height, mm	539
Net Weight, kg	268
Gross Weight, kg	284
Suction, inch	2 5/8
Discharge, inch	1 5/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	6.8
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	457 x 305 (18)
Sound Pressure @ 1m, dBA	77.8
Sound Power, dBA	88.8
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	89.4
Locked Rotor Current, A	393
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

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

**ACCESSORIES OPTIONAL**

Capacity Control	Capacity Steps 66/33%
Enclosure Class	IP 56
Adapter Kit	For Parallel Operation
Oil Pressure Switch	OPS2 Electronic Switch
Oil Control System	ALCO Trax-Oil OM3
Crankcase Heater	200 W Internal
Check Valve	For unloaded start operation
Additional Cooling	70 W Vertical Air Flow Fan
Discharge Temperature Protection	Head PTC sensor
Unloaded start	Available

**MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
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
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
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
AWC	208-230 V / 3~ / 60 Hz	230	YY/Y	Y	2.19
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