



Minimum Evaporating Temp. With:

- █ 25 °C Suction Gas Return
- █ Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW							
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	69.50	87.40	108.00	132.00	159.00	170.50	189.50	206.00
35.0	64.30	81.50	101.50	124.00	150.00	161.00	179.00	195.00
40.0	59.40	75.90	94.70	116.50	141.00	151.50	169.00	184.00
45.0	54.70	70.50	88.40	109.00	132.50	142.50	159.00	173.50
50.0		65.40	82.40	102.00	124.00	133.50	149.00	163.00
55.0		60.80	76.80	95.00	116.00	125.00	140.00	153.00
60.0			71.60	88.80	108.50	117.00	131.00	143.00
62.0			69.70	86.40	105.50	114.00	127.50	139.50

50 Hz

D8SH-5000

R22

Cond °C	Power, kW							
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	24.30	26.00	27.20	27.90	27.90	27.70	27.20	26.50
35.0	25.70	27.80	29.50	30.70	31.30	31.30	31.20	30.90
40.0	26.90	29.40	31.60	33.30	34.40	34.70	35.00	34.90
45.0	28.00	30.90	33.50	35.70	37.40	37.90	38.50	38.80
50.0		32.40	35.40	38.10	40.30	41.00	41.90	42.50
55.0		33.90	37.30	40.30	43.00	43.90	45.10	46.00
60.0			39.10	42.50	45.60	46.80	48.30	49.40
62.0			39.80	43.40	46.70	47.90	49.50	50.70

Cond °C	Current at 400 V, A							
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	54.29	56.42	58.01	58.90	58.93	58.67	57.94	57.01
35.0	55.96	58.68	60.93	62.55	63.38	63.46	63.26	62.80
40.0	57.52	60.83	63.73	66.07	67.70	68.11	68.45	68.44
45.0	59.02	62.89	66.44	69.50	71.91	72.66	73.52	73.97
50.0		64.91	69.10	72.87	76.06	77.14	78.52	79.42
55.0		66.92	71.74	76.21	80.17	81.58	83.47	84.82
60.0			74.38	79.55	84.28	86.01	88.41	90.21
62.0			75.45	80.89	85.92	87.79	90.39	92.37

Cond °C	Suction Mass Flow, g/s							
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
30.0	409.00	508.00	621.00	748.00	891.00	954.00	1052.00	1139.00
35.0	394.00	492.00	604.00	730.00	872.00	934.00	1031.00	1118.00
40.0	379.00	477.00	588.00	712.00	853.00	914.00	1010.00	1096.00
45.0	365.00	463.00	572.00	696.00	834.00	895.00	990.00	1075.00
50.0		450.00	558.00	680.00	817.00	877.00	971.00	1055.00
55.0		439.00	546.00	666.00	802.00	860.00	954.00	1037.00
60.0			537.00	655.00	789.00	847.00	939.00	1021.00
62.0			534.00	652.00	785.00	842.00	934.00	1016.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	8
Displacement @ 50 Hz, m <sup>3</sup> /h	151
Bore/Stroke, mm	68.3/59.2
Length/Width, mm	835/467
Height, mm	610
Net Weight, kg	326
Gross Weight, kg	347
Suction, inch	2 5/8
Discharge, inch	1 5/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	7.6
Oil type (original charge)	Suniso 3GS
Oil type (approved oils)	Suniso 3GS, TEXACO Capella WF 32, FUCHS Reniso KM
Base mounting (hole dia), mm	457 x 305 (18)
Sound Pressure @ 1m (MT), dBA	77
Sound Power (MT), dBA	88
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	76
Sound Power (HT), dBA	87
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	5 / 50 / 15 °C at 50 Hz
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1810
Refrigerant's classification	A1

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

Maximum Operating Current, A	95.2
Locked Rotor Current, A	458
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	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 75/50%
Crankcase Heater	200 W 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	For unloaded start operation
Oil Control System	ALCO Trax-Oil OM3

### MOTOR OPTIONS

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
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