



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								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
20.0	37.20	47.70	60.50	75.60					
25.0	34.50	44.60	56.80	71.30	88.30				
30.0	31.80	41.50	53.10	67.00	83.20	102.00	110.50	124.00	136.00
35.0	29.10	38.30	49.40	62.60	78.10	96.10	104.00	117.00	128.50
40.0	26.40	35.20	45.70	58.20	72.90	90.10	97.70	110.00	121.00
45.0	23.70	32.10	42.00	53.80	67.70	84.00	91.30	103.00	113.50
50.0	21.10	29.00	38.30	49.40	62.50	77.90	84.80	95.90	106.00
55.0	18.55	25.90	34.70	45.00	57.40	71.90	78.40	88.90	98.40
60.0	16.10	22.90	31.10	40.70	52.20	65.80	71.90	81.80	90.80
62.0			29.70	39.00	50.20	63.40	69.30	79.00	87.80

50 Hz

D8SH-370X

R134a

Cond °C	Power, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
20.0	12.80	14.00	14.95	15.70					
25.0	13.45	14.85	16.05	17.10	17.90				
30.0	14.00	15.55	17.05	18.40	19.50	20.30	20.60	20.90	21.00
35.0	14.45	16.20	17.95	19.55	21.00	22.20	22.60	23.10	23.40
40.0	14.80	16.75	18.70	20.60	22.30	23.80	24.40	25.10	25.60
45.0	15.05	17.25	19.40	21.50	23.50	25.40	26.10	27.00	27.70
50.0	15.30	17.60	20.00	22.30	24.60	26.80	27.60	28.80	29.70
55.0	15.45	17.90	20.50	23.10	25.60	28.10	29.00	30.40	31.50
60.0	15.55	18.15	20.90	23.70	26.50	29.20	30.30	31.90	33.10
62.0			21.00	23.90	26.80	29.70	30.80	32.50	33.80

Cond °C	Current at 400 V, A								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
20.0	32.26	33.26	34.25	35.09					
25.0	32.83	34.18	35.54	36.80	37.82				
30.0	33.34	35.00	36.72	38.38	39.84	40.98	41.31	41.66	41.80
35.0	33.77	35.74	37.80	39.83	41.71	43.30	43.83	44.48	44.88
40.0	34.14	36.38	38.77	41.16	43.43	45.46	46.17	47.11	47.76
45.0	34.44	36.95	39.63	42.36	45.01	47.45	48.34	49.56	50.45
50.0	34.67	37.43	40.39	43.44	46.45	49.29	50.35	51.84	52.96
55.0	34.85	37.82	41.05	44.40	47.75	50.97	52.19	53.93	55.27
60.0	34.96	38.14	41.61	45.24	48.91	52.49	53.86	55.85	57.40
62.0			41.80	45.54	49.33	53.05	54.49	56.56	58.20

Cond °C	Suction Mass Flow, g/s								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
20.0	223.00	281.00	349.00	428.00					
25.0	216.00	274.00	342.00	421.00	512.00				
30.0	209.00	267.00	335.00	413.00	504.00	606.00	651.00	723.00	786.00
35.0	201.00	259.00	326.00	405.00	494.00	597.00	642.00	713.00	776.00
40.0	192.00	250.00	317.00	395.00	485.00	587.00	631.00	702.00	765.00
45.0	182.50	241.00	308.00	385.00	474.00	576.00	620.00	691.00	754.00
50.0	172.50	231.00	298.00	375.00	463.00	564.00	608.00	679.00	742.00
55.0	162.50	221.00	287.00	363.00	451.00	551.00	595.00	666.00	729.00
60.0	151.50	210.00	276.00	351.00	438.00	538.00	582.00	652.00	715.00
62.0			271.00	346.00	433.00	533.00	576.00	647.00	710.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	8
Displacement @ 50 Hz, m ³ /h	151
Bore/Stroke, mm	68.3/59.2
Length/Width, mm	835/467
Height, mm	610
Net Weight, kg	314
Gross Weight, kg	335
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)	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)
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	70.9
Locked Rotor Current, A	349
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

Unloaded start	Available
Crankcase Heater	200 W Internal
Enclosure Class	IP 56
Check Valve	For unloaded start operation
Adapter Kit	For Parallel Operation
Oil Control System	ALCO Trax-Oil OM3
Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 75/50%
Discharge Temperature Protection	Head PTC sensor
Oil Pressure Switch	OPS2 Electronic Switch

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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