



Minimum Evaporating Temp. With:	
— 25 °C Suction Gas Return	— 10 K Suction Superheat with add cooling
— 20 K Suction Superheat	
— Maximum Evaporating Temperature	

Suction Return Temperature 20.0°C

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
10.0	51.80	65.70	82.50	102.50	126.00	153.00				
15.0	49.60	63.10	79.30	98.70	121.50	148.00				
20.0	47.20	60.20	75.90	94.60	116.50	142.00	171.00	184.00		
25.0	44.70	57.30	72.40	90.20	111.00	135.50	163.50	176.00	195.50	213.00
30.0	42.10	54.20	68.60	85.70	105.50	129.00	155.50	167.50	186.50	203.00
35.0		51.00	64.80	81.00	100.00	122.00	147.50	158.50	176.50	192.50
40.0			60.80	76.20	94.10	115.00	139.00	149.50	166.50	181.50
45.0			56.90	71.30	88.10	107.50	130.00	140.00	156.00	170.50
50.0				66.40	82.10	100.50	121.50	130.50	145.50	159.00
55.0					76.10	92.90	112.50	121.00	134.50	147.00
60.0					70.00	85.50	103.50	111.00	124.00	135.00
62.0					67.70	82.50	99.70	107.50	119.50	130.50

Cond °C	Power, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	15.75	16.75	17.45	17.65	17.35	16.50				
15.0	16.65	18.05	19.10	19.75	19.95	19.60				
20.0	17.50	19.20	20.60	21.70	22.40	22.60	22.10	21.80		
25.0	18.30	20.30	22.10	23.60	24.70	25.30	25.50	25.40	25.00	24.50
30.0	19.05	21.30	23.40	25.30	26.80	27.90	28.60	28.70	28.70	28.50
35.0		22.30	24.70	26.90	28.80	30.40	31.60	31.90	32.20	32.30
40.0			25.80	28.40	30.70	32.70	34.30	34.90	35.50	35.90
45.0			26.90	29.80	32.40	34.90	37.00	37.70	38.60	39.30
50.0				31.00	34.10	36.90	39.40	40.30	41.60	42.50
55.0					35.60	38.70	41.70	42.80	44.30	45.50
60.0					36.90	40.50	43.80	45.10	46.90	48.30
62.0					37.50	41.10	44.60	45.90	47.80	49.30

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
10.0	41.86	43.23	44.08	44.35	43.96	42.85				
15.0	43.32	44.97	46.18	46.87	46.97	46.40				
20.0	44.55	46.50	48.07	49.18	49.77	49.77	49.10	48.63		
25.0	45.57	47.82	49.76	51.31	52.40	52.97	52.93	52.74	52.23	51.60
30.0	46.39	48.95	51.27	53.26	54.87	56.01	56.62	56.70	56.63	56.38
35.0		49.91	52.61	55.05	57.18	58.91	60.17	60.53	60.90	61.04
40.0			53.79	56.70	59.36	61.68	63.60	64.25	65.06	65.59
45.0			54.84	58.22	61.41	64.34	66.93	67.86	69.12	70.05
50.0				59.63	63.36	66.90	70.17	71.39	73.11	74.43
55.0					65.22	69.37	73.33	74.85	77.02	78.74
60.0					66.99	71.78	76.44	78.24	80.89	83.01
62.0					67.69	72.73	77.66	79.59	82.42	84.71

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
10.0	243.00	309.00	390.00	486.00	601.00	736.00				
15.0	240.00	306.00	386.00	482.00	597.00	731.00				
20.0	235.00	301.00	381.00	477.00	590.00	724.00	880.00	949.00		
25.0	230.00	295.00	375.00	470.00	582.00	714.00	869.00	938.00	1049.00	1151.00
30.0	224.00	289.00	367.00	461.00	572.00	703.00	856.00	924.00	1034.00	1134.00
35.0		282.00	359.00	451.00	561.00	690.00	840.00	907.00	1016.00	1115.00
40.0			350.00	441.00	548.00	674.00	822.00	889.00	996.00	1093.00
45.0			340.00	429.00	534.00	658.00	803.00	867.00	973.00	1068.00
50.0				417.00	519.00	639.00	781.00	844.00	947.00	1040.00
55.0					503.00	620.00	757.00	819.00	919.00	1010.00
60.0					487.00	599.00	732.00	792.00	889.00	977.00
62.0					480.00	591.00	722.00	781.00	876.00	964.00

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	1810
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

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

ACCESSORIES OPTIONAL

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