



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	26.20	34.20	43.90	55.40	68.90	84.60					
15.0	24.90	32.70	42.10	53.20	66.30	81.40	98.70				
20.0	23.50	31.00	40.10	50.80	63.30	77.80	94.50	102.00	113.50		
25.0	21.90	29.20	37.90	48.20	60.20	74.00	90.00	96.90	108.00	118.00	128.50
30.0	20.10	27.20	35.60	45.40	56.80	70.00	85.20	91.80	102.50	112.00	122.00
35.0	18.30	25.10	33.00	42.40	53.20	65.80	80.20	86.50	96.60	105.50	115.00
40.0	16.35	22.80	30.40	39.20	49.50	61.30	74.90	80.90	90.40	99.00	108.00
45.0	14.40	20.50	27.70	36.00	45.60	56.70	69.50	75.10	84.10	92.10	100.50
50.0	12.40	18.20	24.90	32.60	41.60	51.90	63.90	69.10	77.50	85.10	93.10
55.0		15.80	22.00	29.10	37.40	47.00	58.10	63.00	70.80	77.80	85.30
60.0			19.10	25.60	33.20	42.00	52.20	56.70	63.90	70.40	77.40
65.0				22.10	29.00	37.00	46.20	50.30	56.90	62.90	69.20

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	7.91	8.57	8.98	9.10	8.89	8.32					
15.0	8.49	9.38	10.05	10.45	10.55	10.25	9.63				
20.0	8.96	10.10	11.00	11.65	12.05	12.10	11.75	11.55	11.05		
25.0	9.33	10.65	11.80	12.75	13.40	13.75	13.75	13.70	13.40	13.05	12.60
30.0	9.59	11.15	12.50	13.70	14.65	15.30	15.65	15.65	15.60	15.45	15.20
35.0	9.75	11.50	13.10	14.55	15.75	16.70	17.35	17.50	17.65	17.65	17.60
40.0	9.81	11.75	13.60	15.25	16.75	17.95	18.90	19.20	19.55	19.75	19.85
45.0	9.77	11.90	13.95	15.85	17.60	19.10	20.40	20.80	21.30	21.70	21.90
50.0	9.64	11.95	14.20	16.35	18.35	20.10	21.60	22.20	22.90	23.40	23.90
55.0		11.90	14.35	16.70	18.95	21.00	22.80	23.50	24.40	25.00	25.60
60.0			14.40	17.00	19.45	21.70	23.80	24.60	25.70	26.50	27.30
65.0				17.10	19.80	22.30	24.70	25.60	26.90	27.90	28.80

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	19.52	19.90	20.01	19.83	19.37	18.64					
15.0	20.11	20.89	21.39	21.60	21.54	21.20	20.58				
20.0	20.56	21.73	22.62	23.23	23.56	23.62	23.39	23.22	22.88		
25.0	20.87	22.43	23.72	24.72	25.45	25.89	26.06	26.05	25.95	25.79	25.55
30.0	21.04	22.99	24.67	26.06	27.18	28.02	28.58	28.73	28.86	28.90	28.87
35.0	21.06	23.41	25.48	27.27	28.78	30.01	30.97	31.27	31.64	31.87	32.04
40.0	20.94	23.68	26.14	28.33	30.23	31.86	33.21	33.67	34.27	34.70	35.06
45.0	20.67	23.81	26.66	29.24	31.54	33.56	35.30	35.92	36.76	37.39	37.95
50.0	20.26	23.79	27.04	30.02	32.71	35.12	37.26	38.03	39.11	39.94	40.69
55.0		23.64	27.28	30.65	33.73	36.54	39.07	40.00	41.32	42.34	43.29
60.0			27.38	31.14	34.61	37.82	40.74	41.83	43.38	44.60	45.74
65.0				31.48	35.35	38.95	42.26	43.51	45.30	46.71	48.06

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	132.00	170.00	215.00	268.00	329.00	398.00					
15.0	130.50	169.00	214.00	267.00	327.00	397.00	475.00				
20.0	128.00	166.50	212.00	265.00	325.00	394.00	472.00	506.00	560.00		
25.0	124.50	163.50	209.00	261.00	321.00	390.00	467.00	501.00	554.00	601.00	651.00
30.0	119.50	159.00	204.00	257.00	316.00	384.00	461.00	494.00	547.00	594.00	643.00
35.0	114.00	154.00	199.00	251.00	310.00	378.00	453.00	486.00	538.00	585.00	634.00
40.0	108.00	147.50	192.50	244.00	303.00	369.00	444.00	477.00	528.00	574.00	622.00
45.0	100.50	140.00	185.00	236.00	294.00	360.00	433.00	465.00	516.00	561.00	609.00
50.0	92.00	132.00	176.50	227.00	284.00	348.00	421.00	453.00	503.00	547.00	594.00
55.0		122.50	167.00	216.00	272.00	336.00	407.00	438.00	487.00	531.00	578.00
60.0			156.00	205.00	259.00	321.00	391.00	422.00	470.00	513.00	559.00
65.0				191.50	245.00	305.00	374.00	404.00	451.00	494.00	538.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	84.7
Length/Width, mm	690/515
Height, mm	495
Net Weight, kg	210
Gross Weight, kg	226
Suction, inch	2 1/8
Discharge, inch	1 3/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	3.3
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	381 x 305 (18)
Sound Pressure @ 1m, dBA	70
Sound Power, dBA	81
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	48
Locked Rotor Current, A	221
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Springs	4
Oil Pressure Switch	OPS2 Sensor

ACCESSORIES OPTIONAL

Crankcase Heater	100 W Internal
Unloaded start	Available
Capacity Control	Capacity Steps 50%
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
Discharge Temperature Protection	Head PTC sensor
Oil Pressure Switch	OPS2 Electronic Switch
Deep Oil Sump	Mounted

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	YYY	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
EWY	500-550 V / 3~ / 50 Hz	525	Y/DELTA	DELTA	0.76
AWR	220-240 V / 3~ / 50 Hz	230	YYY	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YYY	Y	0.76
TWY	500-550 V / 3~ / 50 Hz	525		DELTA	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	YYY	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00