



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	27.00	33.70	41.60	50.90	61.90	74.50				
15.0	25.40	31.90	39.60	48.70	59.30	71.50				
20.0	23.80	30.10	37.60	46.40	56.60	68.50	82.10	88.10		
25.0	22.20	28.40	35.60	44.10	54.00	65.40	78.50	84.20	93.50	102.00
30.0	20.80	26.70	33.70	41.80	51.30	62.20	74.80	80.30	89.20	97.10
35.0		25.00	31.70	39.50	48.60	59.00	71.00	76.30	84.80	92.40
40.0			29.80	37.20	45.90	55.80	67.20	72.20	80.30	87.50
45.0			27.90	34.90	43.10	52.50	63.30	68.10	75.70	82.60
50.0				32.70	40.40	49.20	59.40	63.90	71.10	77.50
55.0					37.60	45.90	55.50	59.60	66.40	72.40
60.0					34.80	42.60	51.40	55.40	61.60	67.20
62.0					33.70	41.20	49.80	53.60	59.70	65.20

Cond °C	Power, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	8.04	8.37	8.52	8.45	8.11	7.49				
15.0	8.34	8.86	9.21	9.36	9.27	8.91				
20.0	8.66	9.35	9.89	10.25	10.40	10.30	9.92	9.68		
25.0	8.99	9.84	10.55	11.15	11.50	11.65	11.55	11.40	11.10	10.80
30.0	9.32	10.30	11.20	11.95	12.55	12.95	13.10	13.10	12.95	12.80
35.0		10.80	11.85	12.80	13.60	14.20	14.60	14.70	14.75	14.70
40.0			12.45	13.55	14.55	15.40	16.00	16.20	16.45	16.55
45.0			13.00	14.30	15.45	16.50	17.40	17.65	18.05	18.30
50.0				15.00	16.35	17.55	18.65	19.05	19.55	19.95
55.0					17.15	18.55	19.85	20.30	21.00	21.50
60.0					17.85	19.50	21.00	21.50	22.30	23.00
62.0					18.15	19.80	21.40	22.00	22.90	23.50

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
10.0	17.88	18.28	18.44	18.30	17.83	16.95				
15.0	18.29	18.92	19.35	19.53	19.39	18.88				
20.0	18.70	19.57	20.26	20.73	20.92	20.77	20.23	19.89		
25.0	19.13	20.21	21.16	21.91	22.41	22.61	22.45	22.27	21.87	21.41
30.0	19.56	20.85	22.03	23.06	23.86	24.39	24.60	24.58	24.42	24.17
35.0		21.47	22.88	24.16	25.26	26.12	26.68	26.81	26.89	26.85
40.0			23.70	25.23	26.60	27.77	28.67	28.95	29.26	29.42
45.0			24.47	26.23	27.88	29.35	30.59	31.00	31.54	31.89
50.0				27.18	29.09	30.84	32.40	32.96	33.71	34.25
55.0					30.22	32.25	34.12	34.81	35.77	36.49
60.0					31.26	33.56	35.73	36.55	37.71	38.60
62.0					31.66	34.06	36.34	37.21	38.45	39.42

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	126.50	158.50	196.50	242.00	295.00	358.00				
15.0	122.50	154.50	192.50	238.00	291.00	354.00				
20.0	118.50	150.50	188.50	234.00	287.00	349.00	422.00	455.00		
25.0	114.50	146.50	184.50	230.00	283.00	345.00	417.00	449.00	501.00	549.00
30.0	110.50	142.50	180.50	225.00	278.00	339.00	411.00	443.00	495.00	542.00
35.0		138.00	176.00	220.00	272.00	334.00	405.00	437.00	488.00	535.00
40.0			171.50	215.00	267.00	327.00	398.00	429.00	480.00	527.00
45.0			167.00	210.00	261.00	321.00	390.00	421.00	472.00	518.00
50.0				205.00	255.00	314.00	382.00	413.00	463.00	508.00
55.0					249.00	306.00	374.00	404.00	453.00	497.00
60.0					242.00	298.00	365.00	394.00	442.00	486.00
62.0					239.00	295.00	361.00	390.00	438.00	481.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m³/h	70.8
Bore/Stroke, mm	68.3/55.6
Length/Width, mm	670/490
Height, mm	495
Net Weight, kg	194
Gross Weight, kg	210
Suction, inch	2 1/8
Discharge, inch	1 1/8
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 (MT), dBA	71
Sound Power (MT), dBA	82
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	71
Sound Power (HT), dBA	82
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	5 / 55 / 20 °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	41
Locked Rotor Current, A	199
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
Additional Cooling	70 W Vertical Air Flow Fan
Discharge Temperature Protection	Head PTC sensor
Oil Pressure Switch	OPS2 Electronic Switch
Deep Oil Sump	Mounted
Adapter Kit	For Parallel Operation
Oil Control System	ALCO Trax-Oil OM3
Capacity Control	Capacity Steps 50%
Enclosure Class	IP 56
Check Valve	For unloaded start operation

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
EWY	500-550 V / 3~ / 50 Hz	525	Y/DELTA	DELTA	0.76
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
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	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