



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- 0 °C Suction Gas Return
- 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	14.50	18.40	23.10	28.60						
15.0	13.75	17.50	22.00	27.30	33.60					
20.0	12.95	16.55	20.90	26.00	32.00	38.90				
25.0	12.15	15.60	19.75	24.60	30.30	36.90	44.50	47.90	53.20	
30.0	11.30	14.65	18.60	23.20	28.60	34.90	42.10	45.20	50.30	54.80
35.0	10.45	13.65	17.40	21.80	26.80	32.80	39.60	42.50	47.30	51.60
40.0	9.55	12.60	16.15	20.30	25.10	30.60	37.00	39.80	44.30	48.40
45.0	8.61	11.50	14.85	18.75	23.20	28.40	34.40	37.10	41.30	45.10
50.0		10.40	13.55	17.20	21.40	26.20	31.80	34.20	38.20	41.70
55.0			12.20	15.60	19.45	23.90	29.10	31.40	35.00	38.30
60.0			10.80	13.95	17.50	21.60	26.40	28.50		
62.0			10.25	13.25	16.70	20.70	25.30			

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	3.73	3.94	4.02	3.96						
15.0	4.03	4.32	4.50	4.54	4.42					
20.0	4.30	4.68	4.95	5.10	5.10	4.92				
25.0	4.55	5.02	5.39	5.64	5.76	5.71	5.48	5.33	5.04	
30.0	4.77	5.32	5.79	6.16	6.40	6.48	6.40	6.31	6.11	5.88
35.0	4.95	5.59	6.17	6.64	7.01	7.23	7.28	7.26	7.15	7.01
40.0	5.09	5.82	6.50	7.09	7.58	7.94	8.14	8.17	8.17	8.11
45.0	5.18	6.00	6.79	7.50	8.11	8.61	8.96	9.06	9.15	9.17
50.0		6.13	7.02	7.85	8.59	9.23	9.74	9.90	10.10	10.20
55.0			7.20	8.15	9.03	9.81	10.45	10.70	11.00	11.20
60.0			7.32	8.39	9.40	10.35	11.15	11.45		
62.0			7.35	8.47	9.53	10.50	11.40			

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	9.34	9.56	9.67	9.63						
15.0	9.65	9.95	10.15	10.21	10.10					
20.0	9.96	10.35	10.65	10.83	10.84	10.66				
25.0	10.25	10.74	11.16	11.47	11.62	11.59	11.32	11.15	10.80	
30.0	10.50	11.12	11.66	12.11	12.41	12.54	12.45	12.35	12.11	11.84
35.0	10.71	11.45	12.14	12.73	13.20	13.50	13.60	13.58	13.46	13.29
40.0	10.86	11.74	12.57	13.33	13.97	14.46	14.76	14.82	14.83	14.77
45.0	10.93	11.96	12.96	13.89	14.72	15.41	15.91	16.06	16.20	16.25
50.0		12.09	13.27	14.39	15.42	16.31	17.04	17.28	17.57	17.74
55.0			13.50	14.82	16.05	17.17	18.13	18.47	18.90	19.20
60.0			13.62	15.15	16.61	17.97	19.17	19.61		
62.0			13.64	15.26	16.81	18.26	19.57			

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	68.10	86.50	109.00	136.00						
15.0	66.80	85.30	107.50	134.50	166.50					
20.0	65.40	83.80	106.00	133.00	164.50	202.00				
25.0	63.70	82.20	104.50	131.00	162.50	199.50	243.00	262.00	294.00	
30.0	61.80	80.30	102.50	128.50	159.50	196.50	239.00	259.00	290.00	318.00
35.0	59.60	78.20	100.00	126.00	157.00	193.00	236.00	255.00	286.00	314.00
40.0	57.10	75.70	97.50	123.50	153.50	189.50	232.00	251.00	282.00	310.00
45.0	54.20	72.90	94.60	120.00	150.00	185.50	227.00	246.00	277.00	305.00
50.0		69.60	91.20	116.50	146.50	181.50	223.00	241.00	272.00	299.00
55.0			87.40	112.50	142.00	176.50	218.00	236.00	266.00	294.00
60.0			83.10	108.00	137.00	171.50	212.00	230.00		
62.0			81.10	106.00	135.00	169.00	210.00			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	3
Displacement @ 50 Hz, m³/h	38.0
Bore/Stroke, mm	60.4/50.8
Length/Width, mm	680/370
Height, mm	480
Net Weight, kg	164
Gross Weight, kg	175
Rotalock Discharge, inch	1 1/8
Suction, inch	1 3/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	3.7
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	69
Sound Power (MT), dBA	80
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	69
Sound Power (HT), dBA	80
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	2107
Refrigerant's classification	A1

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

Maximum Operating Current, A	20.5
Locked Rotor Current, A	121
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

Capacity Control	Moduload
Enclosure Class	IP 56
Adapter Kit	For Parallel Operation
Crankcase Heater	70 W Internal
Check Valve	For unloaded start operation
Unloaded start	Available
Additional Cooling	70 W Vertical Air Flow Fan
Oil Pressure Switch	OPS2 Electronic Switch
Deep Oil Sump	Mounted
Oil Control System	ALCO Trax-Oil OM3

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
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