



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 20 K Suction Superheat
- 10 K Suction Superheat with add cooling
- 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	31.70	39.80	49.30	60.50	73.70	88.80				
15.0	29.70	37.50	46.80	57.70	70.50	85.20				
20.0	27.70	35.30	44.30	54.90	67.20	81.50	97.80	105.00		
25.0	25.80	33.20	41.90	52.10	63.90	77.70	93.40	100.50	111.50	121.50
30.0	23.90	31.00	39.40	49.20	60.60	73.80	88.90	95.50	106.00	116.00
35.0		28.90	37.00	46.40	57.30	69.80	84.30	90.70	101.00	110.00
40.0			34.50	43.50	53.90	65.90	79.60	85.70	95.40	104.00
45.0			32.10	40.60	50.50	61.80	74.90	80.60	89.80	98.00
50.0				37.70	47.00	57.70	70.00	75.50	84.10	91.90
55.0					43.60	53.60	65.20	70.20	78.40	85.70
60.0					40.10	49.50	60.20	64.90	72.50	79.30
62.0					38.80	47.80	58.20	62.80	70.20	76.80

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	9.20	9.69	9.98	10.00	9.75	9.16				
15.0	9.58	10.30	10.80	11.10	11.15	10.85				
20.0	9.97	10.90	11.65	12.20	12.50	12.55	12.25	12.00		
25.0	10.35	11.50	12.45	13.25	13.85	14.15	14.15	14.05	13.85	13.55
30.0	10.75	12.05	13.20	14.25	15.10	15.70	16.00	16.05	16.00	15.90
35.0		12.60	13.95	15.20	16.30	17.15	17.75	17.95	18.10	18.15
40.0			14.65	16.10	17.40	18.55	19.45	19.75	20.10	20.30
45.0			15.30	16.95	18.45	19.85	21.00	21.40	21.90	22.30
50.0				17.70	19.45	21.10	22.50	23.00	23.70	24.20
55.0					20.30	22.20	23.90	24.50	25.30	26.00
60.0					21.10	23.20	25.10	25.80	26.80	27.60
62.0					21.40	23.60	25.60	26.30	27.40	28.30

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	21.10	21.36	21.35	21.07	20.53	19.72				
15.0	21.76	22.40	22.77	22.87	22.71	22.28				
20.0	22.30	23.31	24.07	24.55	24.76	24.71	24.39	24.19		
25.0	22.71	24.11	25.24	26.11	26.70	27.03	27.09	27.04	26.89	26.68
30.0	23.01	24.79	26.30	27.54	28.52	29.23	29.67	29.77	29.84	29.83
35.0		25.34	27.23	28.86	30.22	31.30	32.13	32.38	32.68	32.86
40.0			28.05	30.05	31.79	33.26	34.46	34.87	35.40	35.77
45.0			28.75	31.13	33.25	35.10	36.68	37.24	37.99	38.55
50.0				32.09	34.58	36.81	38.78	39.49	40.47	41.22
55.0					35.80	38.41	40.75	41.61	42.83	43.76
60.0					36.89	39.88	42.61	43.62	45.06	46.19
62.0					37.30	40.44	43.31	44.39	45.92	47.13

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	149.00	187.00	233.00	287.00	352.00	427.00				
15.0	143.50	182.00	228.00	282.00	346.00	422.00				
20.0	138.00	176.50	222.00	277.00	341.00	416.00	503.00	542.00		
25.0	132.50	171.00	217.00	271.00	335.00	409.00	496.00	535.00	598.00	655.00
30.0	126.50	165.50	211.00	265.00	328.00	402.00	489.00	527.00	590.00	646.00
35.0		159.50	205.00	258.00	321.00	395.00	480.00	519.00	581.00	637.00
40.0			198.50	251.00	314.00	386.00	471.00	509.00	571.00	626.00
45.0			192.00	244.00	306.00	377.00	461.00	499.00	560.00	615.00
50.0				237.00	297.00	368.00	451.00	488.00	548.00	602.00
55.0					288.00	358.00	439.00	476.00	535.00	588.00
60.0					279.00	347.00	427.00	462.00	520.00	573.00
62.0					275.00	342.00	421.00	457.00	515.00	567.00

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)
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	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