



Minimum Evaporating Temp. With:

20 K Suction Superheat

Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	25.20	31.80	39.90									
15.0	23.80	30.20	37.90	47.20								
20.0	22.40	28.50	35.90	44.90	55.40							
25.0	20.90	26.80	33.90	42.40	52.60	64.40	69.70					
30.0	19.50	25.10	31.90	40.00	49.60	60.90	65.90	74.00	81.30			
35.0	18.00	23.40	29.80	37.60	46.70	57.40	62.20	69.90	76.80	84.30		
40.0	16.55	21.60	27.80	35.10	43.70	53.90	58.40	65.70	72.30	79.40	95.00	112.50
45.0	15.05	19.90	25.70	32.60	40.80	50.40	54.60	61.50	67.80	74.40	89.30	106.00
50.0	13.55	18.15	23.60	30.10	37.80	46.80	50.80	57.30	63.20	69.50	83.50	99.50
55.0	12.05	16.40	21.50	27.60	34.80	43.20	47.00	53.10	58.60	64.50	77.70	92.80
60.0		14.65	19.40	25.10	31.70	39.60	43.10	48.80	54.00	59.50	71.90	86.10
65.0			17.30	22.50	28.70	36.00	39.20	44.50	49.30	54.50	66.10	
70.0			15.20	20.00	25.70	32.40	35.40	40.20	44.70	49.50	60.20	
75.0				17.50	22.60	28.70	31.50	35.90	40.00	44.40	54.40	
80.0				14.95	19.60	25.10	27.60	31.60	35.40	39.40		

Cond °C	Power, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	6.21	6.62	6.89									
15.0	6.67	7.19	7.61	7.88								
20.0	7.08	7.72	8.27	8.70	8.98							
25.0	7.44	8.19	8.87	9.46	9.91	10.20	10.25					
30.0	7.75	8.61	9.43	10.15	10.80	11.25	11.40	11.55	11.65			
35.0	8.03	9.00	9.94	10.80	11.60	12.25	12.50	12.75	12.95	13.10		
40.0	8.27	9.34	10.40	11.40	12.35	13.20	13.50	13.95	14.20	14.45	14.80	14.95
45.0	8.48	9.65	10.85	12.00	13.10	14.10	14.50	15.05	15.45	15.80	16.35	16.75
50.0	8.67	9.93	11.25	12.50	13.80	15.00	15.45	16.10	16.60	17.05	17.85	18.50
55.0	8.83	10.20	11.60	13.00	14.45	15.80	16.30	17.10	17.70	18.30	19.30	20.20
60.0		10.40	11.95	13.50	15.05	16.60	17.20	18.05	18.75	19.45	20.70	21.90
65.0			12.25	13.90	15.65	17.35	18.00	19.00	19.80	20.60	22.10	
70.0			12.55	14.35	16.20	18.05	18.80	19.90	20.80	21.70	23.40	
75.0				14.75	16.70	18.75	19.55	20.80	21.80	22.80	24.70	
80.0				15.15	17.25	19.40	20.30	21.60	22.70	23.80		

Cond °C	Current at 400 V, A											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	17.59	17.62	17.52									
15.0	17.77	18.01	18.17	18.17								
20.0	17.96	18.43	18.83	19.11	19.21							
25.0	18.19	18.85	19.48	20.03	20.43	20.63	20.64					
30.0	18.42	19.27	20.13	20.93	21.63	22.15	22.29	22.43	22.47			
35.0	18.67	19.69	20.76	21.80	22.78	23.61	23.89	24.24	24.46	24.61		
40.0	18.92	20.10	21.36	22.64	23.88	25.01	25.42	25.98	26.38	26.72	27.17	27.27
45.0	19.16	20.50	21.94	23.44	24.93	26.35	26.88	27.64	28.21	28.73	29.57	30.10
50.0	19.40	20.87	22.49	24.19	25.92	27.62	28.27	29.21	29.96	30.65	31.87	32.81
55.0	19.62	21.22	23.00	24.89	26.85	28.81	29.57	30.70	31.60	32.47	34.05	35.39
60.0		21.53	23.46	25.53	27.71	29.91	30.79	32.09	33.15	34.18	36.11	37.84
65.0			23.86	26.11	28.49	30.93	31.91	33.38	34.59	35.77	38.05	
70.0			24.21	26.62	29.18	31.85	32.93	34.56	35.91	37.24	39.85	
75.0				27.04	29.79	32.67	33.85	35.62	37.11	38.59	41.51	
80.0				27.39	30.30	33.38	34.65	36.57	38.19	39.81		

Cond °C	Suction Mass Flow, g/s											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	139.50	173.00	213.00									
15.0	137.00	170.50	210.00	257.00								
20.0	134.50	167.50	207.00	254.00	308.00							
25.0	131.50	164.50	204.00	251.00	305.00	367.00	394.00					
30.0	128.00	161.50	201.00	247.00	300.00	362.00	389.00	432.00	470.00			
35.0	124.50	157.50	197.00	243.00	296.00	357.00	383.00	426.00	464.00	504.00		
40.0	120.50	154.00	193.00	238.00	291.00	351.00	377.00	419.00	457.00	497.00	583.00	680.00
45.0	116.00	149.50	188.50	233.00	285.00	345.00	371.00	413.00	450.00	489.00	575.00	671.00
50.0	111.00	145.00	183.50	228.00	280.00	338.00	364.00	405.00	442.00	481.00	566.00	661.00
55.0	105.50	139.50	178.00	222.00	273.00	331.00	357.00	398.00	434.00	472.00	557.00	651.00
60.0		134.00	172.50	216.00	266.00	324.00	349.00	389.00	425.00	463.00	547.00	640.00
65.0			166.00	209.00	259.00	316.00	340.00	380.00	416.00	453.00	536.00	
70.0			159.00	202.00	251.00	307.00	331.00	371.00	406.00	443.00	525.00	
75.0				194.00	242.00	298.00	322.00	361.00	395.00	433.00	514.00	
80.0				185.00	233.00	288.00	312.00	351.00	385.00	422.00		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m ³ /h	84.7
Bore/Stroke, mm	74.7/55.6
Length/Width, mm	690/535
Height, mm	495
Net Weight, kg	214
Gross Weight, kg	230
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	74
Sound Power, dBA	85
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	52.5
Locked Rotor Current, A	221
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

Enclosure Class	IP 56
Adapter Kit	For Parallel Operation
Oil Pressure Switch	OPS2 Electronic Switch
Deep Oil Sump	Mounted
Oil Control System	ALCO Trax-Oil OM3
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Unloaded start	Available
Capacity Control	Capacity Steps 50%
Check Valve	For unloaded start operation

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