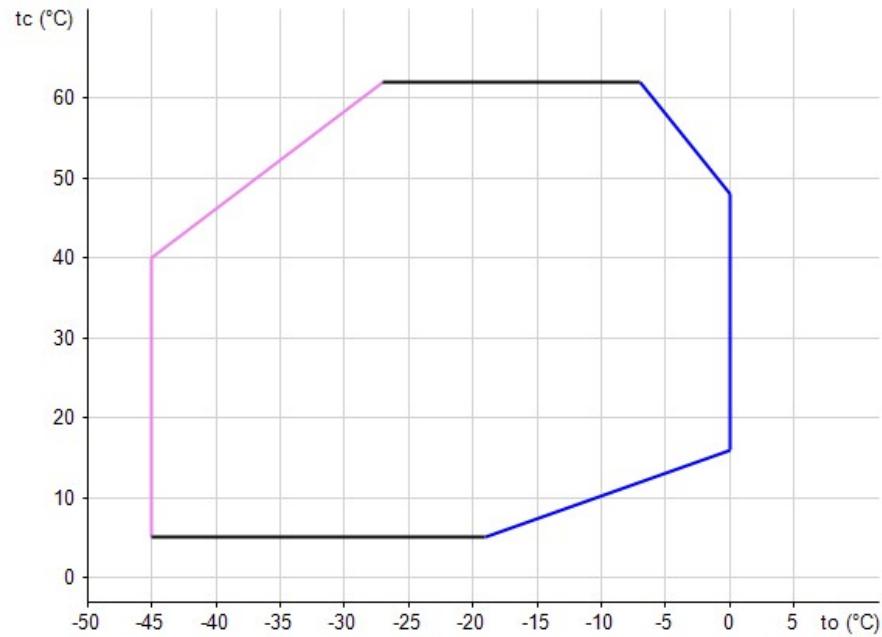




Minimum Evaporating Temp. With:

20 °C Suction Gas Return Liquid injection

Maximum Evaporating Temperature

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
5.0	10.65	14.15	18.55	23.90	30.30	37.90				
10.0	9.93	13.35	17.55	22.70	28.80	36.10	44.60			
15.0	9.16	12.50	16.60	21.50	27.40	34.30	42.40	51.80	62.60	
20.0	8.36	11.65	15.55	20.30	25.90	32.50	40.20	49.20	59.50	71.20
25.0	7.53	10.75	14.55	19.05	24.40	30.70	38.00	46.50	56.30	67.50
30.0	6.66	9.80	13.45	17.80	22.90	28.90	35.80	43.90	53.20	63.80
35.0	5.76	8.83	12.40	16.55	21.40	27.00	33.60	41.20	50.00	60.10
40.0	4.82	7.84	11.25	15.25	19.85	25.20	31.40	38.60	46.90	56.30
45.0		6.81	10.15	13.90	18.25	23.30	29.20	35.90	43.70	52.60
50.0			8.95	12.55	16.70	21.40	26.90	33.20	40.50	
55.0				11.20	15.05	19.50	24.60	30.50	37.30	
60.0					13.45	17.60	22.30	27.80		
62.0					12.75	16.80	21.40	26.70		

50 Hz

4ML-15 DC

R449A Dew Point

Cond °C	Power, kW									
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
5.0	4.64	5.17	5.64	6.03	6.30	6.44				
10.0	4.86	5.50	6.09	6.62	7.06	7.38	7.55			
15.0	5.02	5.76	6.47	7.14	7.74	8.24	8.61	8.84	8.89	
20.0	5.13	5.96	6.79	7.60	8.35	9.02	9.59	10.05	10.30	10.45
25.0	5.20	6.12	7.06	8.00	8.90	9.74	10.50	11.15	11.70	12.05
30.0	5.22	6.23	7.28	8.34	9.39	10.40	11.35	12.20	12.95	13.55
35.0	5.21	6.30	7.46	8.64	9.84	11.00	12.15	13.20	14.20	15.05
40.0	5.18	6.35	7.60	8.91	10.25	11.60	12.90	14.15	15.35	16.45
45.0		6.37	7.72	9.14	10.60	12.10	13.60	15.05	16.45	17.80
50.0			7.81	9.34	10.95	12.60	14.25	15.90	17.55	
55.0				9.53	11.25	13.05	14.90	16.75	18.55	
60.0					11.55	13.50	15.50	17.50		
62.0					11.70	13.65	15.75	17.85		

Cond °C	Current at 400 V, A									
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
5.0	13.28	13.70	14.12	14.48	14.74	14.85				
10.0	13.44	13.96	14.50	15.03	15.49	15.83	16.01			
15.0	13.57	14.18	14.85	15.55	16.20	16.78	17.22	17.48	17.51	
20.0	13.66	14.37	15.17	16.02	16.88	17.69	18.40	18.96	19.33	19.45
25.0	13.72	14.51	15.45	16.47	17.52	18.56	19.54	20.41	21.11	21.60
30.0	13.73	14.63	15.69	16.87	18.12	19.40	20.64	21.81	22.85	23.71
35.0	13.71	14.70	15.89	17.24	18.69	20.19	21.71	23.18	24.55	25.79
40.0	13.65	14.74	16.06	17.57	19.21	20.95	22.73	24.50	26.22	27.82
45.0		14.73	16.18	17.85	19.70	21.67	23.72	25.79	27.84	29.81
50.0			16.27	18.10	20.15	22.35	24.67	27.04	29.42	
55.0				18.31	20.56	22.99	25.57	28.25	30.97	
60.0					20.92	23.59	26.44	29.41		
62.0					21.06	23.82	26.77	29.87		

50 Hz

4ML-15 DC

R449A Dew Point

Cond °C	Suction Mass Flow, g/s									
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
5.0	47.50	63.20	82.80	107.00	136.00	170.50				
10.0	45.70	61.50	81.10	105.00	134.00	168.00	209.00			
15.0	43.60	59.60	79.20	103.00	131.50	165.50	206.00	253.00	308.00	
20.0	41.30	57.50	77.20	101.00	129.00	163.00	203.00	249.00	304.00	367.00
25.0	38.60	55.20	74.90	98.50	126.50	160.00	199.00	245.00	299.00	362.00
30.0	35.60	52.50	72.30	95.90	124.00	157.00	195.50	241.00	295.00	357.00
35.0	32.10	49.40	69.50	93.00	121.00	153.50	192.00	237.00	290.00	352.00
40.0	28.20	46.00	66.30	89.90	117.50	150.00	188.00	233.00	285.00	347.00
45.0		42.00	62.70	86.40	114.00	146.50	184.00	228.00	281.00	341.00
50.0			58.60	82.50	110.00	142.00	180.00	224.00	276.00	
55.0				78.20	106.00	138.00	175.50	219.00	271.00	
60.0					101.00	133.50	170.50	215.00		
62.0					99.20	131.50	169.00	213.00		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m ³ /h	71.4
Bore/Stroke, mm	68.3/56.0
Length/Width, mm	638/501
Height, mm	452
Net Weight, kg	180
Suction, inch	1 5/8
Discharge, inch	1 1/8
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 (LT), dBA	75
Sound Power (LT), dBA	86
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
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
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	35.4
Locked Rotor Current, A	156
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Parts	Spring
CoreSense Protection (-P)	Motor protection
Oil Pressure Switch (-P)	OPS2 Sensor
Copeland Compressor Electronic (-N)	Oil pressure, motor and discharge line temperature protection; advanced diagnostics features and power measurement

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Additional Cooling	Demand Cooling (Driver XEV01D)
Crankcase Heater	100 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Mounting Parts	Rubber
Copeland Compressor Electronic module	Modbus extension module

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