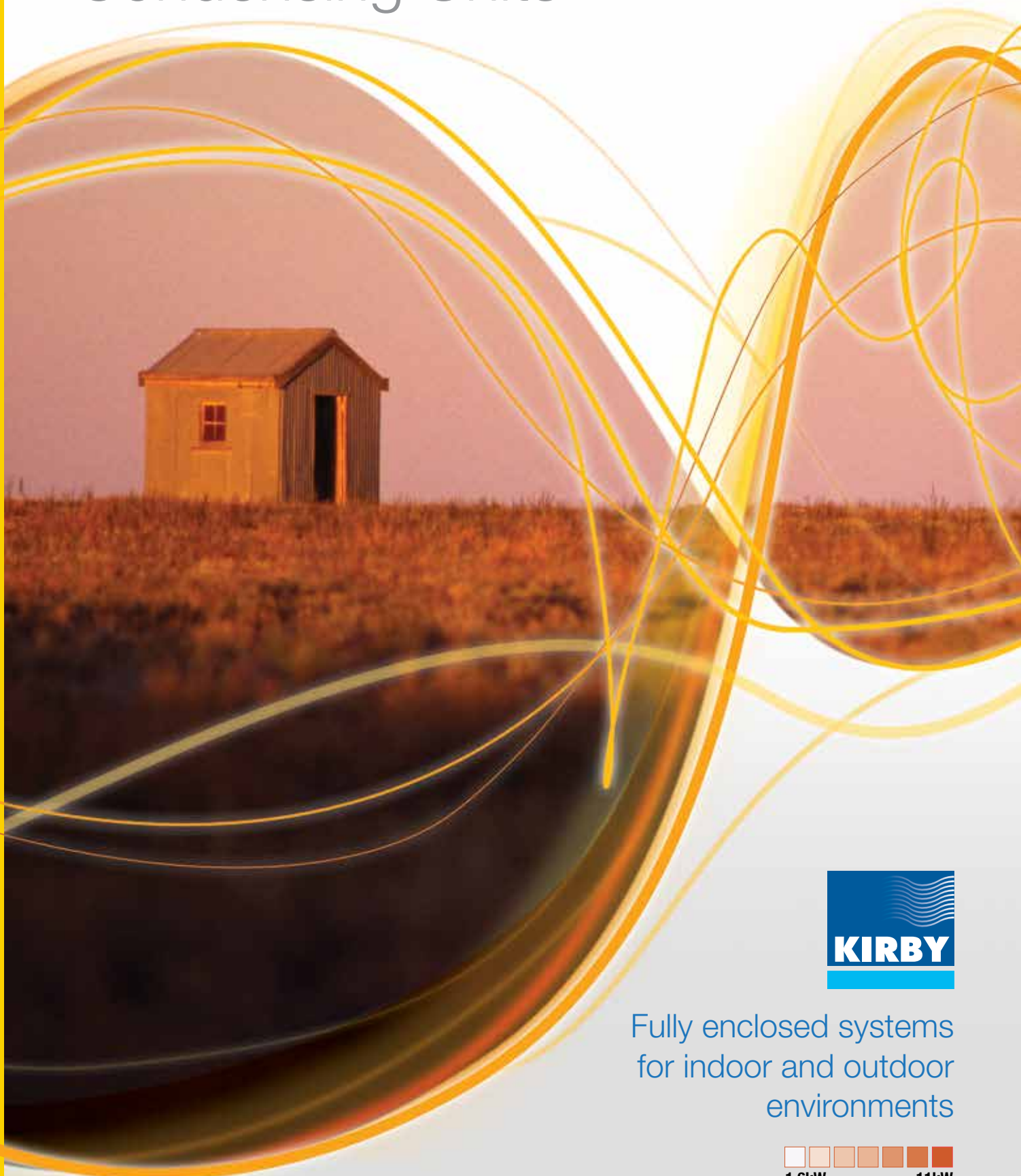


# Kirby Polar Pack Series III Outdoor Condensing Units



Fully enclosed systems  
for indoor and outdoor  
environments





The **Kirby Polar Pack** outdoor condensing unit is fully enclosed and built tough to withstand harsh ambient conditions, like those found in Australia.

Australia is not only a dry country, but is also subject to fierce heat. As the sun tracks into the southern hemisphere in early spring, it begins to strongly heat northern and interior parts of the country. By November, average maximum temperatures have already climbed to the high 30s over wide areas of northern and central Australia - and into the low 40s in parts of north-western Australia and western Queensland. The heat does not relent until the following autumn<sup>1</sup>.

1. Australian Government – Department of Meteorology

# Kirby Polar Pack Series III

Compact and robust, our Polar Pack Series III commercial refrigeration unit is specially designed for harsh ambient conditions. Pre-wired and constructed around a small base, Polar Pack is easy to install. And because it's from Kirby, Polar Pack is tough and reliable – guaranteed.

Kirby's outdoor condensing units have always been renowned for their durability and clever design. The Polar Pack is no exception. Being a fully enclosed system, it can be installed indoors or outside.

- Hi-Ambient (45°C)
- Easy Servicing
- Fast Installation
- Fully pre-wired
- Designed for Australian conditions
- Fan speed control
- 1 to 11.3kW capacity
- Coil protection standard on all units
- Phase failure protection module and universal HP/LP control standard
- Suction accumulator standard for low temperature models and all semi hermetic compressor models



## Kirby Polar Pack Condensing Units – Nomenclature Data

PP	H	100	MH	A1	2
PP = Polar Pack					
<b>Compressor Type</b> H = Hermetic Reciprocating S = Semi Hermetic Reciprocating					
<b>R404A CAPACITY (kW) X 10</b> at -5°C SST for "M" & "LM" Range at -25°C SST for "L" Range eg. 100 = 10 (kW) x 10					
<b>Operating Range for R404A</b> M = Medium LM = Low / Medium L = Low					
		<b>Power Supply to Compressor</b> Odd Number = Single Phase Even Number = Three Phase			
		<b>Condenser Type &amp; Variant</b> A = Air-Cooled Number = Sequential for Different Available Condensers			



# Kirby Polar Pack Series III Condensing Units

## Performance Rating Basis



### 1. CONDENSING UNIT RATINGS ARE AT THE FOLLOWING CONDITIONS

- Ambient temperature of 30, 35, 40 and 45°C.
- Liquid entering temperature with inherent subcooling averaging 2 to 3 K.
- Return vapour temperature of 20°C. Return vapour temperature should never exceed 20°C for any refrigerant selected for M/HBP applications. LBP applications should be restricted to 20 K return gas superheat maximum.
- All capacity data based on continuous condenser fan operation at 100% speed.

### 2. THE FOLLOWING FACTORS MAY BE USED WITH SUFFICIENT ACCURACY FOR CAPACITY CORRECTION AS REQUIRED

- For changed ambient temperature: interpolate as necessary.
- For changed liquid entering temperature: increase capacity 1% for each 1°C lower liquid temperature. Vice versa for each 1°C higher liquid temperature.
- For lower return vapour temperature:  
R22: Disregard - generally marginal.  
R404A: Use factors below for 10K return vapour superheat.

SST	-40	-30	-20	-10	0	10
R404A	0.88	0.89	0.91	0.94	0.97	1

Multiply rated capacity by factor to get capacity at 10K superheat.

### 3. LIQUID RECEIVER CAPACITY

- Based on 80% liquid and 20% vapour by volume at 32°C (rated ambient) condition.
- Refrigerant factor for liquid receiver capacity:  
R507: multiply R404A liquid receiver capacity by 1.02 to find R507 capacity data.  
R407C: multiply R22 liquid receiver capacity by 0.96 to find R407C capacity data.

### 4. UNIT INPUT WATTS, MCC (MAXIMUM CONTINUOUS CURRENT) AND RLA (RATED LOAD AMPS)

- RLA and input watts values are given for the stated load condition based on calorimeter data where possible. Actual values may vary with varying conditions.
- RLA and input watts are intended as a guide for comparison purposes with other equipment.
- MCC is intended to be used as a guide for power supply rating, protection setting, and functional settings such as CPR valve.
- Unit RLA = Compressor RLA + Condenser Fan RLA.
- Unit MCC = Compressor MCC + Condenser Fan RLA.
- Unit Input Watts = Compressor Input Watts + Condenser Fan Input Watts.

### 5. SOUND POWER LEVEL RATINGS

- Values given are provisional based on compressor manufacturer's data and tested fan data, and are subject to change. Actual levels may vary according to unit loading.
- Sound pressure level at 3m = sound power level - 17.5 dB(A). Sound pressure level at 10m = sound power level - 28 dB(A).
- When lower sound power ratings are required, consider optional insulation kits. Factory fitted kits generally achieve a 2.5dB(A) reduction. Maneurop acoustic blankets are available and approved for units with Maneurop compressors that achieve up to 6dB(A) reduction (manufacturer's data).

### 6. UNIT CAPACITY (REFRIGERANT FACTOR) DATA

- Refrigerant capacity correction data is based on compressor capacity data from the manufacturer, and published thermodynamic data from the refrigerant manufacturers.
- Figures are an average of data for all models, and are given at 32°C ambient condition.
- Values can be used with sufficient accuracy over a wide range of ambient temperature without further correction. R507: multiply R404A capacity by 1.03 to find R507 capacity data. R507 application limits are the same as for R404A. R407C: the capacity and application limits are the same as for R22.

# Kirby Polar Pack Series III Condensing Units

## Technical Information



### 1. OIL TYPES USED IN POLAR PACK CONDENSING UNITS

- All compressors used in Polar Pack condensing units, including Kulthorn Kirby, Danfoss Maneurop and Dorin are charged with Polyolester (POE) oil.
- POE oil can be used with HCFC refrigerants, such as R22, and HFC refrigerants, such as R404A, R507, R407C and R134a.
- Use ONLY POE oil, do NOT mix POE with other oils, when using HFC refrigerants.
- Use RC32HT oil if the exact oil listed on the compressor is not available.

### 2. RECOMMENDED HIGH/LOW PRESSURE SWITCH SETTING

#### High Pressure

- Polar Pack Series III condensing units have a maximum operating pressure of 32 Bar(a) set by pressure vessels codes which apply to items such as liquid receiver.
- Pressure limiting device can have a maximum setting of 29 Bar(a) =  $0.9 \times 32$ . Lower values are also acceptable in accordance with AS/NZS1677.2:1998.
- Polar Pack Series III have a maximum design condensing temperature of 60°C. When setting the HP control, consideration must be given to the type of refrigerant used and the maximum ambient temperature to ensure compliance with AS/NZS1677.2 and avoiding nuisance tripping.

#### Low Pressure

- The cut-out points shall be 3-5 K below the minimum design evaporating temperature, the differential shall be no more than 2 bar depending on the application and compressor.
- When the units are installed in a cold ambient, the cut-out pressure shall be lower than the pressure corresponding to the ambient temperature.
- The cut-out pressure shall be in the positive pressure region.
- Do not operate compressors in deep vacuum conditions as this can cause electrical failure. Compressors should never be used to evacuate refrigeration or air conditioning systems.

### 3. STANDARD & OPTIONAL CONFIGURATIONS (Refer to configuration section).

#### Standard configurations

- Crankcase heater for the unit with Maneurop or Dorin compressor.
- Oil separator, Koil Kote condenser coil, liquid receiver, liquid line dryer, sightglass, dual pressure control and fan speed control for all units.
- Suction accumulator for the units in low temperature application and Dorin semi hermetics.

### 4. FAN SPEED CONTROL "P215PR-9200" FROM JOHNSON CONTROLS

- The controller varies the supply voltage to the fan motor from 30% to at least 95% over the proportional condensing pressure band which is factory fixed at  $4.5 \pm 1$  bar.
- The setpoint is defined at 90% supply voltage to the fan motor, and is factory set at 19 bar. It can be adjusted by turning the screw. It is about 2.5 bar per full (360°) turn.
- The cut-off point is defined at 30% supply voltage to the fan motor, and is corresponding to  $19$  (if set at 19) -  $4.5 \pm 1 = 14.5 \pm 1$  bar depending on actual load and/or power supply.
- When the condensing pressure reduces to the condition of cut-off point, the controller will cut off the supply to the fan and fan will stop. Vice versa when the pressure rises.
- Heatcraft factory setpoint for primary refrigerant R404A is 19 bar(g) for M/T & 14 bar(g) for L/T units. Heatcraft Australia recommends 16 bar(g) for R22, 10 bar(g) for R134a units.

# Kirby Polar Pack Series III Condensing Units R404A/R507 Medium Temperature Reciprocating Hermetic Compressors



UNIT MODEL	AMB. (°C)	LT				MT			HT			REC'R CAP.		
		-35	-30	-25	-20	-15	-10	-5	0	5	10	(L)	(KG)	
<b>R404A/R507 MEDIUM TEMPERATURE RANGE CONDENSING UNITS - RECIPROCATING HERMETIC COMPRESSORS</b>														
PPH 016 M A1-1 3/4 HP	30				980	1190	1420	1675	1945	2240			2.4	2.0
	35				900	1095	1310	1545	1795	2070				
	40				815	1000	1200	1415	1645	1895				
	45				735	905	1090	1285	1495	1720				
PPH 018 M A1-1 7/8 HP	30				1095	1340	1605	1885	2190	2505			2.4	2.0
	35				1005	1230	1475	1730	2005	2300				
	40				915	1120	1340	1580	1825	2090				
	45				820	1010	1210	1425	1645	1885				
PPH 022 M A1-1 1 HP	30					1585	1910	2270	2665	3090	3555		2.4	2.0
	35					1435	1745	2090	2465	2875	3310			
	40					1285	1585	1915	2270	2655	3065			
	45					1130	1420	1735	2075	2435	2820			
PPH 027 M A1-1 1.25 HP	30					1930	2350	2785	3235	3700	4175		2.4	2.0
	35					1765	2170	2580	2995	3415	3845			
	40					1605	1990	2370	2755	3140	3520			
	45					1440	1805	2165	2515	2860				
PPH 030 M A1-1 1.5 HP	30					2320	2820	3370	3965	4605	5295		2.4	2.0
	35					2145	2615	3125	3670	4250	4865			
	40					1935	2380	2850	3350	3870	4410			
	45					1745	2160	2595	3040	3495				
PPH 040 M A1-1 PPH 040 M A1-2 2 HP	30					2825	3470	4180	4950	5785	6685		4.4	3.6
	35					2520	3145	3810	4525	5285	6090			
	40					2215	2815	3440	4100	4785	5495			
	45					1910	2485	3075	3675	4280				
PPH 046 M A1-1 PPH 046 M A1-2 2.25 HP	30					3100	3940	4855	5850	6925	8075		4.4	3.6
	35					2830	3640	4505	5430	6415	7455			
	40					2560	3340	4160	5015	5905	6835			
	45					2290	3045	3815	4595	5400				
PPH 052 M A1-1 PPH 052 M A1-2 2.5 HP	30					3420	4340	5335	6405	7555	8775		4.4	3.6
	35					3120	4015	4955	5940	6970	8050			
	40					2820	3690	4575	5475	6390	7320			
	45					2520	3365	4195	5010	5805				
PPH 062 M A1-1 PPH 062 M A1-2 3 HP	30				3570	4445	5405	6450	7580	8795		8.2	6.8	
	35				3235	4050	4935	5890	6915	8015				
	40				2905	3655	4460	5325	6250	7235				
	45				2570	3255	3990	4765	5585	6455				
PPH 068 M A1-2 3.3 HP	30				3810	4830	5900	7025	8200	9430		8.2	6.8	
	35				3465	4420	5405	6435	7500	8600				
	40				3120	4010	4915	5845	6795	7765				
	45				2775	3600	4425	5255	6090	6935				
PPH 075 M A1-2 3.8 HP	30				4165	5310	6535	7855	9260	10755		8.2	6.8	
	35				3780	4855	6000	7210	8490	9835				
	40				3390	4400	5460	6565	7720	8920				
	45				3005	3950	4920	5920	6950	8005				
PPH 089 M A1-2 4.2 HP	30				4880	6185	7570	9035	10580	12205		8.2	6.8	
	35				4420	5645	6930	8275	9685	11155				
	40				3965	5105	6285	7515	8785	10105				
	45				3505	4565	5645	6755	7890	9050				
PPH 100 M A1-2 4.8 HP	30				5230	6680	8250	9935	11740	13660		8.2	6.8	
	35				4755	6110	7565	9115	10760	12500				
	40				4280	5545	6885	8295	9780	11340				
	45				3805	4980	6200	7480	8805	10180				
PPH 113 M A1-2 5.4 HP	30				6175	7800	9545	11405	13385	15480		8.2	6.8	
	35				5600	7130	8745	10445	12235	14105				
	40				5025	6455	7945	9485	11080	12730				
	45				4445	5785	7145	8525	9930	11360				

# Kirby Polar Pack Series III Condensing Units R404A/R507 Low/Medium Temperature Semi-Hermetic Compressors



UNIT MODEL	AMB. (°C)	LT				MT			HT		REC'R CAP.		
		-35	-30	-25	-20	-15	-10	-5	0	5	10	(L)	(KG)
<b>R404A/R507 LOW/MEDIUM TEMPERATURE RANGE CONDENSING UNITS - SEMI-HERMETIC COMPRESSORS</b>													
PPS 016 LM A1-3 PPS 016 LM A1-4 3/8 HP	30	475	630	805	1000	1215	1450	1705	1985	2285		2.4	2.0
	35	425	565	730	910	1110	1330	1570	1830	2105			
	40	370	505	655	825	1010	1215	1435	1675	1930			
PPS 022 LM A1-3 PPS 022 LM A1-4 3/4 HP	45	315	445	585	740	910	1100	1300	1520	1750		2.4	2.0
	30	675	880	1115	1380	1675	1995	2350	2730	3145			
	35	655	825	1030	1270	1535	1835	2170	2530	2925			
PPS 031 LM A1-3 PPS 031 LM A1-4 1 HP	40	635	775	950	1155	1400	1675	1985	2330	2710		2.4	2.0
	45	615	720	865	1045	1260	1515	1805	2130	2495			
	30	915	1240	1595	1985	2405	2855	3340	3855	4400			
PPS 039 LM A1-3 PPS 039 LM A1-4 1.5 HP	35	835	1135	1465	1825	2215	2635	3080	3560	4065		4.4	3.6
	40	755	1030	1335	1665	2025	2410	2825	3260	3730			
	45	670	925	1205	1510	1835	2190	2565	2965	3395			
PPS 046 LM A1-4 1.8 HP	30	1010	1450	1925	2425	2960	3525	4120	4740	5395		4.4	3.6
	35	980	1370	1790	2240	2730	3250	3805	4395	5020			
	40	955	1285	1650	2055	2500	2980	3495	4050	4640			
PPS 051 LM A1-4 2.0 HP	45	930	1200	1515	1870	2265	2705	3185	3700	4260		4.4	3.6
	30	1300	1765	2280	2855	3485	4165	4905	5700	6550			
	35	1185	1615	2095	2625	3205	3840	4520	5255	6040			
PPS 057 LM A1-4 2.2HP	40	1070	1465	1910	2395	2930	3510	4135	4810	5530		4.4	3.6
	45	960	1320	1720	2165	2655	3180	3750	4365	5015			
	30	1415	1945	2530	3165	3855	4595	5385	6230	7125			
PPS 074 LM A1-4 2.8 HP	35	1275	1775	2315	2910	3545	4230	4965	5745	6570		8.2	6.8
	40	1140	1600	2105	2650	3240	3870	4540	5260	6015			
	45	1000	1425	1890	2395	2930	3505	4120	4770	5460			
PPS 084 LM A1-4 3 HP	30	1580	2210	2885	3610	4380	5200	6065	6975	7935		8.2	6.8
	35	1365	1975	2625	3310	4035	4795	5595	6430	7305			
	40	1155	1745	2365	3010	3690	4390	5125	5885	6675			
PPS 094 LM A1-4 3.5 HP	45	940	1515	2105	2715	3340	3990	4655	5340	6045		8.2	6.8
	30	1540	2490	3475	4490	5540	6625	7735	8885	10065			
	35	1485	2345	3235	4165	5130	6135	7175	8250	9365			
PPS 103 LM A1-4 3.8 HP	40	1435	2195	2995	3840	4720	5645	6610	7620	8670		8.2	6.8
	45	1385	2050	2755	3510	4310	5155	6050	6985	7970			
	30	2100	3060	4090	5200	6390	7650	8990	10410	11905			
PPS 094 LM A1-4 3.5 HP	35	1805	2715	3695	4740	5855	7035	8280	9595	10975		8.2	6.8
	40	1505	2370	3295	4280	5320	6415	7565	8775	10045			
	45	1205	2030	2900	3820	4780	5795	6855	7960	9115			
PPS 103 LM A1-4 3.8 HP	30	2315	3390	4550	5790	7115	8515	10000	11565	13210		8.2	6.8
	35	2055	3060	4145	5300	6530	7830	9205	10655	12175			
	40	1795	2730	3735	4810	5945	7145	8415	9745	11145			
PPS 103 LM A1-4 3.8 HP	45	1535	2400	3330	4315	5360	6460	7620	8835	10110		8.2	6.8
	30	2600	3775	5035	6385	7825	9345	10960	12660	14445			
	35	2480	3520	4655	5880	7200	8615	10120	11725	13420			
PPS 103 LM A1-4 3.8 HP	40	2360	3265	4270	5375	6575	7880	9285	10790	12395		8.2	6.8
	45	2240	3010	3885	4865	5955	7150	8450	9855	11365			

# Kirby Polar Pack Series III Condensing Units R404A/R507 Low Temp & R134A Medium Temp Reciprocating Hermetic Compressors



UNIT MODEL	AMB. (°C)	LT					MT			HT		REC'R CAP.		
		-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	(L)	(KG)
<b>R404A/R507 LOW TEMPERATURE RANGE CONDENSING UNITS - RECIPROCATING HERMETIC COMPRESSORS</b>														
PPH 010 L A1-1 3/4 HP	30		565	780	1025	1290	1575						2.4	2.0
	35		520	700	915	1160	1440							
	40		475	620	810	1035	1300							
	45			540	700	905	1165							
PPH 012 L A1-1 7/8 HP	30		705	955	1240	1565	1925						2.4	2.0
	35		625	845	1105	1405	1745							
	40		550	735	970	1250	1570							
	45			630	835	1090	1390							
PPH 014 L A1-1 1 HP	30		800	1090	1420	1780	2185						2.4	2.0
	35		705	975	1280	1620	2000							
	40		610	860	1140	1460	1820							
	45			740	1005	1300	1640							
PPH 020 L A1-1 1.25 HP	30		1290	1660	2080	2550	3075						4.4	3.6
	35		1085	1445	1855	2310	2815							
	40		880	1235	1630	2065	2550							
	45			1020	1405	1825	2285							
PPH 024 L A1-1 1.5 HP	30		1735	2030	2470	3060	3800						4.4	3.6
	35			1750	2200	2785	3495							
	40			1470	1930	2505	3190							
	45			1190	1665	2230	2890							
PPH 028 L A1-2 2.3 HP	30	1470	2035	2670	3370	4140	4985						4.4	3.6
	35	1315	1840	2430	3085	3810	4600							
	40		1645	2195	2805	3475	4215							
	45		1450	1955	2520	3145	3830							
PPH 043 L A1-2 3.3 HP	30		2485	3295	4275	5435	6765						8.2	6.8
	35			2945	3865	4950	6190							
	40			2595	3460	4465	5615							
	45			2250	3050	3980	5035							
PPH 050 L A1-2 3.8 HP	30		3005	4005	5160	6470	7930						8.2	6.8
	35		2675	3605	4680	5905	7280							
	40			3200	4205	5345	6625							
	45			2800	3725	4785	5975							
PPH 061 L A1-2 4 HP	30	2755	3770	4950	6295	7815	9505						8.2	6.8
	35		3385	4490	5755	7180	8760							
	40		3005	4035	5210	6540	8015							
	45		2620	3575	4670	5900	7270							

<b>R134A MEDIUM TEMPERATURE RANGE CONDENSING UNITS - RECIPROCATING HERMETIC COMPRESSORS</b>														
PPH 062 M A1-1, -2 MTZ36-5VM, -4VM	30						2735	3490	4355	5330	6420	7615	8.2	7.8
	35						2550	3270	4090	5015	6040	7170		
	40						2370	3050	3825	4695	5660	6720		
	45						2185	2830	3560	4380	5285	6275		
PPH 068 M A1-2 MTZ40-4VM	30						3135	3900	4750	5680	6700	7800	8.2	7.8
	35						2960	3690	4495	5380	6345	7385		
	40						2785	3475	4240	5080	5990	6975		
	45						2615	3265	3990	4780	5635	6560		
PPH 075 M A1-2 MTZ45-4VM	30						3095	4030	5080	6240	7515	8910	8.2	7.8
	35						2760	3640	4630	5740	6960	8300		
	40						2425	3250	4185	5235	6405	7690		
	45						2095	2855	3735	4735	5850	7080		
PPH 089 M A1-2 MTZ51-4VM	30						3640	4760	5995	7345	8810	10385	8.2	7.8
	35						3305	4355	5520	6805	8195	9705		
	40						2970	3950	5050	6260	7585	9025		
	45						2635	3545	4575	5715	6975	8345		
PPH 100 M A1-2 MTZ57-4VM	30						4095	5185	6500	8045	9815	11820	8.2	7.8
	35						3730	4785	6040	7500	9155	11015		
	40						3365	4385	5585	6955	8495	10215		
	45						2995	3990	5125	6410	7835	9410		
PPH 113 M A1-2 MTZ65-4VM	30						4920	6145	7570	9190	11015	13040	8.2	7.8
	35						4530	5675	7010	8535	10250	12160		
	40						4135	5205	6455	7885	9490	11275		
	45						3745	4740	5900	7230	8730	10395		

# Kirby Polar Pack Series III Condensing Units

## R134A Low/Medium Temperature

### Semi-Hermetic Compressors



UNIT MODEL	AMB. (°C)	LT				MT			HT			REC'R CAP.		
		-35	-30	-25	-20	-15	-10	-5	0	5	10	(L)	(KG)	
<b>R134A LOW/MEDIUM TEMPERATURE RANGE CONDENSING UNITS - SEMI-HERMETIC COMPRESSORS</b>														
PPS 016 LM A1-3, -4 H40CC-S/HTCR, H40CC/HTCR	30					755	955	1180	1430	1705	2005	2.4	2.3	
	35					705	895	1105	1345	1610	1895			
	40					655	835	1035	1265	1510	1785			
	45					600	775	965	1180	1415	1675			
PPS 022 LM A1-3, -4 H75CC-S/HTCR, H75CC/HTCR	30					1055	1345	1670	2040	2445	2890	2.4	2.3	
	35					980	1260	1570	1920	2305	2730			
	40					910	1170	1470	1800	2170	2570			
	45					835	1085	1370	1685	2030	2410			
PPS 031 LM A1-3, -4 H100CC-S/HTCR, H100CC/HTCR	30					1535	1905	2320	2785	3295	3855	2.4	2.3	
	35					1435	1785	2180	2620	3105	3635			
	40					1335	1670	2045	2460	2920	3415			
	45					1235	1550	1905	2295	2730	3200			
PPS 039 LM A1-3, -4 H150CC-S/HTCR, H150CC/HTCR	30					1790	2225	2720	3285	3920	4620	4.4	4.2	
	35					1715	2130	2610	3155	3765	4440			
	40					1635	2040	2500	3025	3615	4260			
	45					1560	1945	2390	2895	3460	4080			
PPS 046 LM A1-4 H180CC/HTCR	30					2150	2675	3285	3970	4730	5570	4.4	4.2	
	35					2035	2540	3120	3775	4505	5305			
	40					1925	2405	2955	3580	4275	5040			
	45					1810	2270	2795	3385	4050	4780			
PPS 051 LM A1-4 H200CC/HTCR	30					2340	2920	3585	4335	5170	6090	4.4	4.2	
	35					2215	2775	3410	4130	4925	5805			
	40					2090	2625	3235	3920	4685	5525			
	45					1965	2475	3060	3715	4440	5245			
PPS 057 LM A1-4 H220CC/HTCR	30					2735	3400	4150	5000	5935	6965	4.4	4.2	
	35					2580	3215	3935	4745	5645	6625			
	40					2420	3030	3720	4495	5350	6290			
	45					2265	2845	3505	4240	5055	5950			
PPS 074 LM A1-4 H280CC/HTCR	30					3655	4530	5515	6610	7815	9135	8.2	7.8	
	35					3410	4245	5180	6220	7365	8615			
	40					3170	3960	4845	5835	6915	8100			
	45					2925	3675	4515	5445	6465	7580			
PPS 084 LM A1-4 H300CC/HTCR	30					3865	4860	5965	7185	8520	9965	8.2	7.8	
	35					3575	4525	5580	6740	8010	9385			
	40					3285	4185	5190	6295	7500	8810			
	45					2995	3850	4800	5850	6990	8230			
PPS 094 LM A1-4 H350CC/HTCR	30					4260	5370	6610	7985	9495	11140	8.2	7.8	
	35					3940	5000	6185	7495	8930	10485			
	40					3620	4635	5760	7005	8365	9835			
	45					3300	4265	5340	6515	7795	9185			
PPS 103 LM A1-4 H380CC/HTCR	30					4780	5950	7260	8710	10300	12030	8.2	7.8	
	35					4460	5570	6810	8185	9690	11325			
	40					4145	5195	6365	7660	9080	10625			
	45					3830	4815	5915	7135	8470	9920			



# Kirby Polar Pack Series III Condensing Units

## R22 Medium Temperature

### Reciprocating Hermetic Compressors



UNIT MODEL	AMB. (°C)	LT				MT			HT		REC'R CAP.		
		-35	-30	-25	-20	-15	-10	-5	0	5	10	(L)	(KG)
<b>R22 MEDIUM TEMPERATURE RANGE CONDENSING UNITS - RECIPROCATING HERMETIC COMPRESSORS</b>													
PPH 016 M A1-1 3/4 HP	30				905	1105	1340	1610	1910	2240			
	35				845	1035	1260	1515	1800	2115			
	40				785	965	1175	1415	1690	1990	2.4	2.3	
	45				720	895	1095	1320	1580	1860			
PPH 018 M A1-1 7/8 HP	30				1000	1220	1475	1770	2100	2470			
	35				935	1145	1390	1670	1990	2345			
	40				870	1070	1305	1575	1880	2220	2.4	2.3	
	45				805	995	1220	1475	1770	2095			
PPH 022 M A1-1 1 HP	30					1440	1770	2155	2590	3085	3630		
	35					1355	1670	2045	2470	2950	3480		
	40					1265	1575	1935	2350	2815	3335	2.4	2.3
	45					1175	1475	1825	2230	2680	3185		
PPH 027 M A1-1 1.25 HP	30					1835	2255	2710	3195	3720	4280		
	35					1725	2125	2555	3020	3515	4045		
	40					1615	1995	2405	2845	3315	3815	2.4	2.3
	45					1505	1865	2250	2670	3110			
PPH 030 M A1-1 1.5 HP	30					2135	2645	3210	3840	4530	5285		
	35					2000	2480	3015	3600	4240	4930		
	40					1865	2315	2815	3360	3945	4580	2.4	2.3
	45					1725	2155	2620	3120	3655			
PPH 040 M A1-1 PPH 040 M A1-2 2 HP	30					2395	3140	3970	4890	5895	6990		
	35					2160	2870	3665	4540	5505	6555		
	40					1925	2600	3360	4195	5115	6115	4.4	4.1
	45					1690	2335	3055	3850	4725			
PPH 046 M A1-1 PPH 046 M A1-2 2.25 HP	30					2855	3735	4730	5835	7055	8390		
	35					2610	3455	4405	5460	6620	7890		
	40					2370	3170	4075	5080	6185	7390	4.4	4.1
	45					2125	2890	3750	4705	5750	6895		
PPH 052 M A1-1 PPH 052 M A1-2 2.5 HP	30					3155	4125	5210	6415	7730	9165		
	35					2885	3815	4850	6000	7255	8625		
	40					2620	3505	4490	5585	6780	8085	4.4	4.1
	45					2350	3190	4130	5170	6305			
PPH 062 M A1-1 PPH 062 M A1-2 3 HP	30				3345	4285	5340	6505	7785	9170	10670		
	35				3045	3960	4980	6105	7335	8665	10105		
	40				2750	3640	4625	5705	6885	8160	9535	8.2	7.7
	45					4265	5310	6440	7655	8965			
PPH 068 M A1-2 3.3 HP	30				3575	4575	5715	6990	8395	9940	11620		
	35				3240	4230	5350	6595	7975	9485	11125		
	40				2900	3880	4980	6205	7555	9030	10625	8.2	7.7
	45					4615	5815	7135	8575				
PPH 075 M A1-2 3.8 HP	30				3645	4760	6030	7450	9015	10735	12605		
	35				3250	4325	5545	6905	8410	10060	11845		
	40				2855	3890	5060	6365	7805	9380	11090	8.2	7.7
	45					4575	5825	7200	8700	10330			
PPH 089 M A1-2 4.2 HP	30				4145	5415	6860	8470	10245	12195	14310		
	35				3775	4985	6355	7890	9590	11455	13480		
	40				3400	4550	5855	7315	8935	10710	12645	8.2	7.7
	45					5350	6740	8280	9970	11815			
PPH 100 M A1-2 4.8 HP	30				4960	6305	7850	9590	11535	13685	16035		
	35				4655	5915	7360	9000	10830	12855	15075		
	40				4350	5520	6875	8410	10125	12030	14120	8.2	7.7
	45					6390	7820	9425	11205	13160			
PPH 113 M A1-2 5.4 HP	30				5680	7150	8855	10795	12965	15375	18015		
	35				5270	6665	8280	10120	12185	14470	16980		
	40				4860	6175	7710	9450	11405	13570	15945	8.2	7.7
	45					7135	8780	10625	12665				

# Kirby Polar Pack Series III Condensing Units

## R22 Low/Medium Temperature Semi-Hermetic Compressors



UNIT MODEL	AMB. (°C)	LT				MT			HT		REC'R CAP.		
		-35	-30	-25	-20	-15	-10	-5	0	5	10	(L)	(KG)
<b>R22 LOW/MEDIUM TEMPERATURE RANGE CONDENSING UNITS - SEMI-HERMETIC COMPRESSORS</b>													
PPS 016 LM A1-3 PPS 016 LM A1-4 3/8 HP	30					1175	1415	1690	1995	2330	2695	2.4	2.3
	35					1105	1335	1595	1885	2210	2560		
	40					1035	1255	1505	1780	2090	2425		
	45					965	1175	1410	1675	1970	2290		
PPS 022 LM A1-3 PPS 022 LM A1-4 3/4 HP	30					1625	1965	2350	2770	3235	3745	2.4	2.3
	35					1530	1855	2215	2620	3065	3555		
	40					1435	1740	2085	2470	2895	3360		
	45					1340	1625	1955	2320	2725	3170		
PPS 031 LM A1-3 PPS 031 LM A1-4 1 HP	30					2320	2795	3330	3925	4570	5280	2.4	2.3
	35					2180	2630	3145	3730	4375	5085		
	40					2040	2465	2965	3535	4175	4895		
	45					1905	2300	2780	3340	3980			
PPS 039 LM A1-3 PPS 039 LM A1-4 1.5 HP	30					2810	3440	4125	4860	5650	6490	4.4	4.1
	35					2640	3240	3895	4615	5400	6245		
	40					2470	3035	3665	4370	5150	6000		
	45					2305	2830	3435	4125	4900			
PPS 046 LM A1-4 1.8 HP	30					3255	4005	4820	5700	6645	7655	4.4	4.1
	35					3065	3775	4550	5395	6305	7285		
	40					2875	3545	4285	5090	5965	6915		
	45					2685	3315	4015	4785	5630	6540		
PPS 051 LM A1-4 2 HP	30					3550	4355	5235	6180	7195	8280	4.4	4.1
	35					3345	4115	4950	5850	6815	7850		
	40					3140	3870	4660	5520	6440	7420		
	45					2935	3625	4375	5185	6060	6990		
PPS 057 LM A1-4 2.2 HP	30					4075	4995	5980	7040	8165	9365	4.4	4.1
	35					3840	4715	5655	6665	7745	8890		
	40					3605	4435	5330	6290	7320	8415		
	45					3370	4155	5000	5915	6895			
PPS 074 LM A1-4 2.8 HP	30					5105	6270	7525	8875	10320	11855	8.2	7.7
	35					4805	5905	7110	8405	9805	11300		
	40					4505	5545	6690	7940	9290	10745		
	45					4205	5185	6275	7470	8775	10190		
PPS 084 LM A1-4 3 HP	30					6015	7315	8765	10375	12135	14050	8.2	7.7
	35					5530	6765	8155	9690	11375	13210		
	40					5045	6220	7545	9010	10615	12370		
	45					4560	5675	6930	8325	9860	11535		
PPS 094 LM A1-4 3.5 HP	30					6280	7905	9665	11565	13600	15775	8.2	7.7
	35					5795	7340	9020	10835	12785	14870		
	40					5305	6770	8370	10100	11965	13960		
	45					4815	6205	7720	9370	11150	13055		
PPS 103 LM A1-4 3.8 HP	30					6865	8605	10480	12495	14650	16940	8.2	7.7
	35					6370	8025	9810	11735	13800	15995		
	40					5880	7445	9145	10975	12945	15050		
	45					5385	6860	8475	10215	12095	14105		

# Kirby Polar Pack Series III Condensing Units

## Technical Data

### Electrical Specifications



UNIT MODEL	COMPRESSOR								CONDENSER FAN			UNIT		
	MODEL	DISPL. (m3/Hr)	Volts / Ph (50Hz)	MOTOR TYPE	RLA*	LRA	MCC	INPUT* (Watts)	Volts / Ph (50Hz)	RLA (Amps)	INPUT (Watts)	RLA	MCC	INPUT (Watts)
					(Amps/Ph)							(Amps/Ph)		
<b>MEDIUM TEMPERATURE RANGE CONDENSING UNITS - RECIPROCATING HERMETIC COMPRESSORS</b>														
PPH 016 M A1-1	BA16MG-4KS	2.82	220 - 240 / 1	CSR	3.5	14.6	4.6	810	240 / 1	0.8	150	4.3	5.4	960
PPH 018 M A1-1	BA18MG-1KS	3.13	220 - 240 / 1	CSR	3.8	18.0	5.8	900	240 / 1	0.8	150	4.6	6.6	1050
PPH 022 M A1-1	WJ22MHG-1C	3.74	220 - 240 / 1	CSR	5.3	25.0	8.2	1220	240 / 1	0.8	150	6.1	9.0	1370
PPH 027 M A1-1	WJ26MHG-3C	4.66	220 - 240 / 1	CSR	6.7	31.0	10.5	1580	240 / 1	0.8	150	7.5	11.3	1730
PPH 030 M A1-1	WJ31MHG-1C	5.31	220 - 240 / 1	CSR	6.5	40.0	11.9	1840	240 / 1	0.8	150	7.3	12.7	1990
PPH 040 M A1-1	AW43MHG-1C	7.50	220 - 240 / 1	CSR	9.6	46.0	13.2	2100	240 / 1	0.8	150	10.4	14.0	2250
PPH 040 M A1-2	AW43MHG-4C	7.50	380 - 420 / 3	3 Ph	3.4	25.0	5.2	2150	240 / 1	0.8	150	4.2	6.0	2300
PPH 046 M A1-1	AW48MHG-1C	8.42	220 - 240 / 1	CSR	11.6	55.0	14.6	2440	240 / 1	0.9	180	12.5	15.5	2620
PPH 046 M A1-2	AW48MHG-4C	8.42	380 - 420 / 3	3 Ph	4.2	36.0	4.7	2500	240 / 1	0.9	180	5.1	5.6	2680
PPH 052 M A1-1	AW54MHG-3C	9.31	220 - 240 / 1	CSR	12.9	82.0	16.7	2770	240 / 1	0.9	180	13.8	17.6	2950
PPH 052 M A1-2	AW54MHG-4C	9.31	380 - 420 / 3	3 Ph	4.2	36.0	5.9	2770	240 / 1	0.9	180	5.1	6.8	2950

\* = Compressor RLA and Input Watts data are taken at +5°C SST / +55°C SCT with refrigerant R22.

PPH 062 M A1-1	MTZ36-5VM	10.52	220 - 240 / 1	CSR	14.4	70.0	20.0	3370	240 / 1	1.6	300	16.0	21.6	3670
PPH 062 M A1-2	MTZ36-4VM	10.52	380 - 420 / 3	3 Ph	5.8	30.0	9.0	3370	240 / 1	1.6	300	7.4	10.6	3670
PPH 068 M A1-2	MTZ40-4VM	11.81	380 - 420 / 3	3 Ph	6.5	38.0	10.0	3850	240 / 1	1.6	300	8.1	11.6	4150
PPH 075 M A1-2	MTZ45-4VM	13.26	380 - 420 / 3	3 Ph	6.9	48.5	9.5	3620	240 / 1	1.6	300	8.5	11.1	3920
PPH 089 M A1-2	MTZ51-4VM	14.90	380 - 420 / 3	3 Ph	7.9	48.5	11.5	4010	240 / 1	1.8	360	9.7	13.3	4370
PPH 100 M A1-2	MTZ57-4VM	16.73	380 - 420 / 3	3 Ph	9.2	64.0	12.0	4540	240 / 1	1.8	360	11.0	13.8	4900
PPH 113 M A1-2	MTZ65-4VM	18.74	380 - 420 / 3	3 Ph	8.8	64.0	14.0	5230	240 / 1	1.8	360	10.6	15.8	5590

\* = Compressor RLA and Input Watts data are taken at +7°C SST / +55°C SCT with refrigerant R22. Compressor LRA and MCC data are taken from compressor manufacturer data.

<b>LOW/MEDIUM TEMPERATURE RANGE CONDENSING UNITS - SEMI-HERMETIC COMPRESSORS</b>														
PPS 016 LM A1-3	H40CC-S/HTCR	2.89	220 - 240 / 1	1 Ph	4.4	30.0	6.0	1023	240 / 1	0.8	150	5.2	6.8	1173
PPS 016 LM A1-4	H40CC/HTCR	2.89	380 - 420 / 3	3 Ph	1.6	11.1	2.4	1049	240 / 1	0.8	150	2.4	3.2	1199
PPS 022 LM A1-3	H75CC-S/HTCR	3.86	220 - 240 / 1	1 Ph	6.6	44.0	9.0	1485	240 / 1	0.8	150	7.4	9.8	1635
PPS 022 LM A1-4	H75CC/HTCR	3.86	380 - 420 / 3	3 Ph	2.1	13.8	2.9	1450	240 / 1	0.8	150	2.9	3.7	1600
PPS 031 LM A1-3	H100CC-S/HTCR	5.30	220 - 240 / 1	1 Ph	6.8	62.0	10.0	2008	240 / 1	0.8	150	7.6	10.8	2158
PPS 031 LM A1-4	H100CC/HTCR	5.30	380 - 420 / 3	3 Ph	2.7	20.0	4.4	2080	240 / 1	0.8	150	3.5	5.2	2230
PPS 039 LM A1-3	H150CC-S/HTCR	6.75	220 - 240 / 1	1 Ph	7.5	69.0	13.5	2402	240 / 1	0.8	150	8.3	14.3	2552
PPS 039 LM A1-4	H150CC/HTCR	6.75	380 - 420 / 3	3 Ph	3.1	24.4	6.0	2530	240 / 1	0.8	150	3.9	6.8	2680
PPS 046 LM A1-4	H180CC/HTCR	7.71	380 - 420 / 3	3 Ph	3.8	24.4	6.0	2882	240 / 1	0.9	180	4.7	6.9	3062
PPS 051 LM A1-4	H200CC/HTCR	8.47	380 - 420 / 3	3 Ph	4.3	24.4	6.0	3196	240 / 1	0.9	180	5.2	6.9	3376
PPS 057 LM A1-4	H220CC/HTCR	9.88	380 - 420 / 3	3 Ph	4.5	24.4	6.0	3510	240 / 1	0.9	180	5.4	6.9	3690
PPS 074 LM A1-4	H280CC/HTCR	12.17	380 - 420 / 3	3 Ph	6.2	43.6	9.4	4611	240 / 1	1.6	300	7.8	11.0	4911
PPS 084 LM A1-4	H300CC/HTCR	14.74	380 - 420 / 3	3 Ph	6.9	43.6	9.4	5160	240 / 1	1.8	360	8.7	11.2	5520
PPS 094 LM A1-4	H350CC/HTCR	15.94	380 - 420 / 3	3 Ph	7.3	43.6	9.4	5330	240 / 1	1.8	360	9.1	11.2	5690
PPS 103 LM A1-4	H380CC/HTCR	17.53	380 - 420 / 3	3 Ph	8.1	43.6	9.4	5410	240 / 1	1.8	360	9.9	11.2	5770

\* = Compressor RLA and Input Watts data are taken at -5°C SST / +45°C SCT with refrigerant R404A. Compressor LRA and MCC data are supplied by compressor manufacturer.

<b>LOW TEMPERATURE RANGE CONDENSING UNITS - KIRBY RECIPROCATING HERMETIC COMPRESSORS</b>														
PPH 010 L A1-1	WJ22LZ-1C	3.74	220 - 240 / 1	CSR	2.7	30.0	5.1	780	240 / 1	0.8	150	3.5	5.9	930
PPH 012 L A1-1	WJ26LZ-1C	4.65	220 - 240 / 1	CSR	4.2	30.0	6.2	920	240 / 1	0.8	150	5.0	7.0	1070
PPH 014 L A1-1	WJ31LZ-1C	5.31	220 - 240 / 1	CSR	4.2	37.0	7.4	1050	240 / 1	0.8	150	5.0	8.2	1200
PPH 020 L A1-1	AW43LZ-5C	7.50	220 - 240 / 1	CSR	6.9	43.0	8.3	1200	240 / 1	0.8	150	7.7	9.1	1350
PPH 024 L A1-1	AW54LZ-1C	9.31	220 - 240 / 1	CSR	7.9	43.0	11.7	1665	240 / 1	0.9	180	8.8	12.6	1845

\* = Compressor RLA and Input Watts data are taken at -25°C SST / +55°C SCT with refrigerant R404A.

<b>LOW TEMPERATURE RANGE CONDENSING UNITS - MANEUROP RECIPROCATING HERMETIC COMPRESSORS</b>														
PPH 028 L A1-2	NTZ068A4LR1A	11.81	380 - 420 / 3	3 Ph	3.4	25	8.4	1516	240 / 1	0.9	180	4.3	9.3	1696
PPH 043 L A1-2	NTZ096A4LR1A	16.73	380 - 420 / 3	3 Ph	3.3	32	10.1	1734	240 / 1	1.8	360	6.9	13.7	2454
PPH 050 L A1-2	NTZ108A4LR1A	18.74	380 - 420 / 3	3 Ph	4.5	45	12.1	2079	240 / 1	1.8	360	8.1	15.7	2799
PPH 061 L A1-2	NTZ136A4LR1A	23.63	380 - 420 / 3	3 Ph	6.1	51	14.3	2896	240 / 1	1.8	360	9.7	17.9	3616

LEGEND  SINGLE FAN  DOUBLE FAN

# Kirby Polar Pack Series III Condensing Units

## Technical Data

### Physical Specifications



UNIT MODEL	APPL. RANGE	REFRIGERANT		DIMENSIONS					APPROX			SOUND
		CONNECTIONS		OVERALL			MT'G HOLE		WEIGHT		SHIP'G	POWER
		SUCT'N (mm)	LIQUID (mm)	HEIGHT (mm)	WIDTH (mm)	DEPTH (mm)	CRS (mm)	CRS (mm)	NET (kg)	GROSS (kg)	VOL. (m3)	LEVEL dB(A)
<b>MEDIUM TEMPERATURE RANGE CONDENSING UNITS - RECIPROCATING HERMETIC COMPRESSORS</b>												
PPH 016 M A1-1	M	12.7	9.5	730	750	660	420	620	55	67	0.58	70
PPH 018 M A1-1	M	12.7	9.5	730	750	660	420	620	55	67	0.58	71
PPH 022 M A1-1	M	12.7	9.5	730	750	660	420	620	70	82	0.58	72
PPH 027 M A1-1	M	12.7	9.5	730	750	660	420	620	70	82	0.58	71
PPH 030 M A1-1	M	12.7	9.5	730	750	660	420	620	70	82	0.58	71
PPH 040 M A1-1	M	15.9	12.7	730	750	660	420	620	80	92	0.58	73
PPH 040 M A1-2	M	15.9	12.7	730	750	660	420	620	80	92	0.58	73
PPH 046 M A1-1	M	15.9	12.7	730	750	660	420	620	80	92	0.58	74
PPH 046 M A1-2	M	15.9	12.7	730	750	660	420	620	80	92	0.58	74
PPH 052 M A1-1	M	15.9	12.7	730	750	660	420	620	80	92	0.58	75
PPH 052 M A1-2	M	15.9	12.7	730	750	660	420	620	80	92	0.58	75
PPH 062 M A1-1	M	19.1	15.9	730	1220	660	450	620	100	121	0.91	74
PPH 062 M A1-2	M	19.1	15.9	730	1220	660	450	620	100	121	0.91	74
PPH 068 M A1-2	M	22.2	15.9	730	1220	660	450	620	100	121	0.91	74
PPH 075 M A1-2	M	22.2	15.9	730	1220	660	450	620	115	136	0.91	81
PPH 089 M A1-2	M	22.2	15.9	730	1220	660	450	620	110	131	0.91	84
PPH 100 M A1-2	M	22.2	15.9	730	1220	660	450	620	115	136	0.91	82
PPH 113 M A1-2	M	22.2	15.9	730	1220	660	450	620	120	141	0.91	81

<b>LOW/MEDIUM TEMPERATURE RANGE CONDENSING UNITS - SEMI-HERMETIC COMPRESSORS</b>												
PPS 016 LM A1-3	L / M	12.7	9.5	730	750	660	420	620	75	87	0.58	69
PPS 016 LM A1-4	L / M	12.7	9.5	730	750	660	420	620	75	87	0.58	69
PPS 022 LM A1-3	L / M	12.7	9.5	730	750	660	420	620	80	92	0.58	69
PPS 022 LM A1-4	L / M	12.7	9.5	730	750	660	420	620	80	92	0.58	69
PPS 031 LM A1-3	L / M	15.9	9.5	730	750	660	420	620	80	92	0.58	70
PPS 031 LM A1-4	L / M	15.9	9.5	730	750	660	420	620	80	92	0.58	70
PPS 039 LM A1-3	L / M	15.9	12.7	730	750	660	420	620	85	97	0.58	70
PPS 039 LM A1-4	L / M	15.9	12.7	730	750	660	420	620	85	97	0.58	70
PPS 046 LM A1-4	L / M	15.9	12.7	730	750	660	420	620	90	102	0.58	73
PPS 051 LM A1-4	L / M	15.9	12.7	730	750	660	420	620	90	102	0.58	73
PPS 057 LM A1-4	L / M	15.9	12.7	730	750	660	420	620	90	102	0.58	74
PPS 074 LM A1-4	L / M	19.1	15.9	730	1220	660	450	620	120	141	0.91	74
PPS 084 LM A1-4	L / M	19.1	15.9	730	1220	660	450	620	130	151	0.91	76
PPS 094 LM A1-4	L / M	22.2	15.9	730	1220	660	450	620	130	151	0.91	76
PPS 103 LM A1-4	L / M	22.2	15.9	730	1220	660	450	620	135	156	0.91	77

<b>LOW TEMPERATURE RANGE CONDENSING UNITS - RECIPROCATING HERMETIC COMPRESSORS</b>												
PPH 010 L A1-1	L	12.7	9.5	730	750	660	420	620	70	82	0.58	71
PPH 012 L A1-1	L	12.7	9.5	730	750	660	420	620	70	82	0.58	70
PPH 014 L A1-1	L	12.7	9.5	730	750	660	420	620	70	82	0.58	70
PPH 020 L A1-1	L	15.9	9.5	730	750	660	420	620	75	87	0.58	72
PPH 024 L A1-1	L	15.9	9.5	730	750	660	420	620	80	92	0.58	74
PPH 028 L A1-2	L	15.9	9.5	730	750	660	420	620	75	87	0.58	74
PPH 043 L A1-2	L	22.2	15.9	730	1220	660	450	620	110	131	0.91	86
PPH 050 L A1-2	L	22.2	15.9	730	1220	660	450	620	115	136	0.91	85
PPH 061 L A1-2	L	22.2	15.9	730	1220	660	450	620	115	136	0.91	84

LEGEND  SINGLE FAN  DOUBLE FAN

# Kirby Polar Pack Series III Condensing Units Configurations



Product	Comp Model	Crankcase Heater	Suction Accum.	MP15 Motor Protection	Horizontal Airflow		Thermal Overload	
					Supply Only KP Kit	Factory Fitted KP Kit	Overload	Setting
<b>MEDIUM TEMPERATURE RANGE CONDENSING UNITS - RECIPROCATING HERMETIC COMPRESSORS</b>								
PPH016MA1-1	BA16MG-4KS	N/A	N/A	STD	KP540-1	KP540-1F	N/A	N/A
PPH018MA1-1	BA18MG-1KS	N/A	N/A	STD	KP540-1	KP540-1F	N/A	N/A
PPH022MA1-1	WJ22MHG-1C	N/A	N/A	STD	KP540-1	KP540-1F	N/A	N/A
PPH027MA1-1	WJ26MHG-3C	N/A	N/A	STD	KP540-1	KP540-1F	N/A	N/A
PPH030MA1-1	WJ31MHG-1C	N/A	N/A	STD	KP540-1	KP540-1F	N/A	N/A
PPH040MA1-1	AW43MHG-1C	N/A	N/A	STD	KP540-1	KP540-1F	N/A	N/A
PPH040MA1-2	AW43MHG-4C	N/A	N/A	STD	KP540-1	KP540-1F	M047H4209	5.2 A
PPH046MA1-1	AW48MHG-1C	N/A	N/A	STD	KP540-2	KP540-2F	N/A	N/A
PPH046MA1-2	AW48MHG-4C	N/A	N/A	STD	KP540-2	KP540-2F	M047H4209	4.7 A
PPH052MA1-1	AW54MHG-3C	N/A	N/A	STD	KP540-2	KP540-2F	N/A	N/A
PPH052MA1-2	AW54MHG-4C	N/A	N/A	STD	KP540-2	KP540-2F	M047H4209	5.9 A
PPH062MA1-1	MTZ36-5VM	STD	N/A	STD	KP540-3	KP540-3F	N/A	N/A
PPH062MA1-2	MTZ36-4VM	STD	N/A	STD	KP540-3	KP540-3F	M047H4210	9.0 A
PPH068MA1-2	MTZ40-4VM	STD	N/A	STD	KP540-3	KP540-3F	M047H4211	10.0 A
PPH075MA1-2	MTZ45-4VM	STD	N/A	STD	N/A	N/A	M047H4211	9.5 A
PPH089MA1-2	MTZ51-4VM	STD	N/A	STD	N/A	N/A	M047H4211	11.5 A
PPH100MA1-2	MTZ57-4VM	STD	N/A	STD	N/A	N/A	M047H4211	12.0 A
PPH113MA1-2	MTZ65-4VM	STD	N/A	STD	N/A	N/A	M047H4212	14.0 A
<b>LOW/MEDIUM TEMPERATURE RANGE CONDENSING UNITS - SEMI-HERMETIC COMPRESSORS</b>								
PPS016LMA1-3	H40CC-S/HTCR	STD	STD	STD	KP540-1	KP540-1F	N/A	N/A
PPS016LMA1-4	H40CC/HTCR	STD	STD	STD	KP540-1	KP540-1F	M047H4207	2.4 A
PPS022LMA1-3	H75CC-S/HTCR	STD	STD	STD	KP540-1	KP540-1F	N/A	N/A
PPS022LMA1-4	H75CC/HTCR	STD	STD	STD	KP540-1	KP540-1F	M047H4208	2.9 A
PPS031LMA1-3	H100CC-SHTCR	STD	STD	STD	KP540-1	KP540-1F	N/A	N/A
PPS031LMA1-4	H100CC/HTCR	STD	STD	STD	KP540-1	KP540-1F	M047H4209	4.4 A
PPS039LMA1-3	H150CC-SHTCR	STD	STD	STD	KP540-1	KP540-1F	N/A	N/A
PPS039LMA1-4	H150CC/HTCR	STD	STD	STD	KP540-1	KP540-1F	M047H4209	6.0 A
PPS046LMA1-4	H180CC/HTCR	STD	STD	STD	KP540-1	KP540-1F	M047H4209	6.0 A
PPS051LMA1-4	H200CC/HTCR	STD	STD	STD	KP540-2	KP540-2F	M047H4209	6.0 A
PPS057LMA1-4	H220CC/HTCR	STD	STD	STD	KP540-2	KP540-2F	M047H4209	6.0 A
PPS074LMA1-4	H280CC/HTCR	STD	STD	STD	KP540-4	KP540-4F	M047H4211	9.4 A
PPS084LMA1-4	H300CC/HTCR	STD	STD	STD	KP540-4	KP540-4F	M047H4211	9.4 A
PPS094LMA1-4	H350CC/HTCR	STD	STD	STD	KP540-4	KP540-4F	M047H4211	9.4 A
PPS103LMA1-4	H380CC/HTCR	STD	STD	STD	KP540-4	KP540-4F	M047H4211	9.4 A
<b>LOW TEMPERATURE RANGE CONDENSING UNITS - RECIPROCATING HERMETIC COMPRESSORS</b>								
PPH010LA1-1	WJ22LZ-1C	N/A	STD	STD	KP540-1	KP540-1F	N/A	N/A
PPH012LA1-1	WJ26LZ-1C	N/A	STD	STD	KP540-1	KP540-1F	N/A	N/A
PPH014LA1-1	WJ31LZ-1C	N/A	STD	STD	KP540-1	KP540-1F	N/A	N/A
PPH020LA1-1	AW43LZ-5C	N/A	STD	STD	KP540-1	KP540-1F	N/A	N/A
PPH024LA1-1	AW54LZ-1C	N/A	STD	STD	KP540-2	KP540-2F	N/A	N/A
PPH028LA1-2	NTZ068A4LR1A	STD	STD	STD	KP540-2	KP540-2F	M047H4210	8.4 A
PPH043LA1-2	NTZ096A4LR1A	STD	STD	STD	N/A	N/A	M047H4211	10.1 A
PPH050LA1-2	NTZ108A4LR1A	STD	STD	STD	N/A	N/A	M047H4212	12.1 A
PPH061LA1-2	NTZ136A4LR1A	STD	STD	STD	N/A	N/A	M047H4212	14.3 A

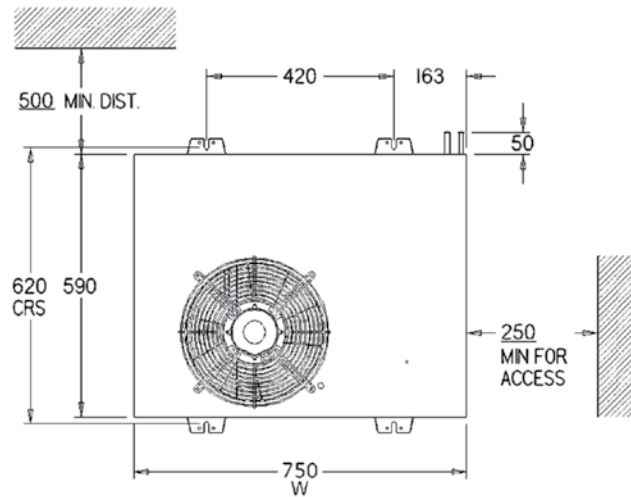
# Kirby Polar Pack Series III Condensing Units

## Technical Data

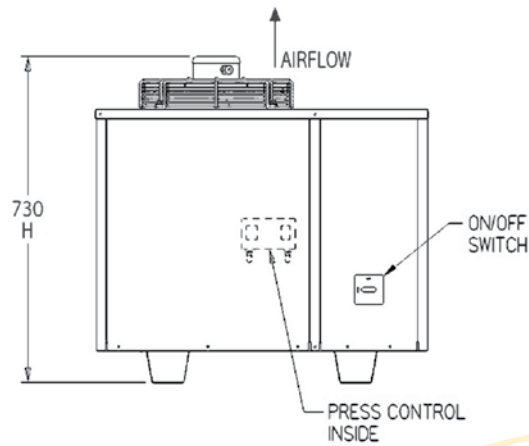


### Single Fan Physical Dimensions

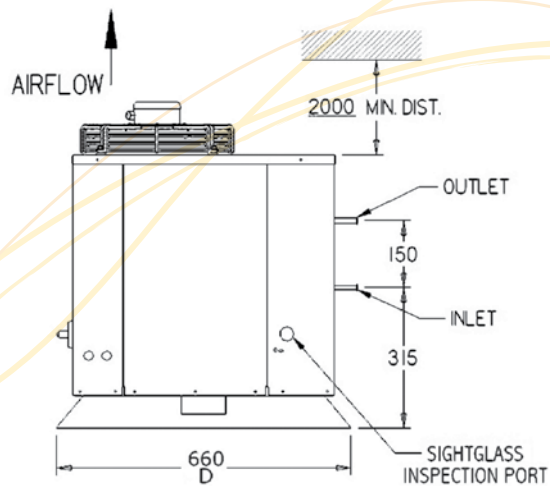
#### ■ Plan View



#### ■ Side View



#### ■ End View (right side of unit)



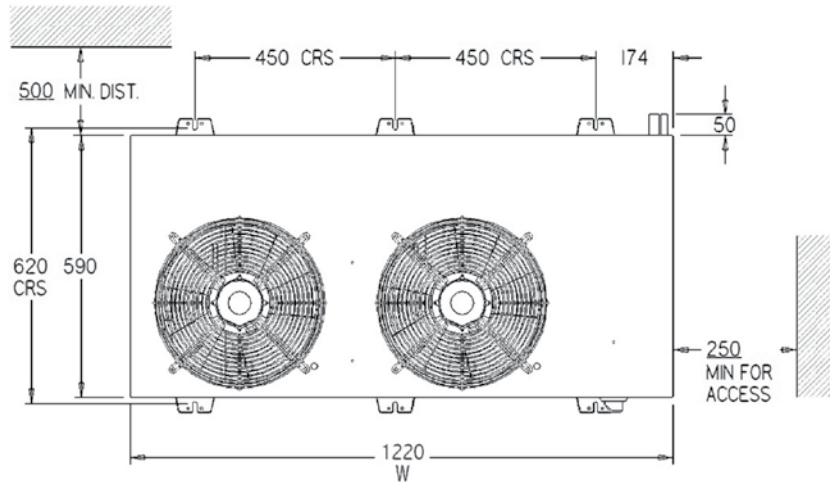
# Kirby Polar Pack Series III Condensing Units

## Technical Data

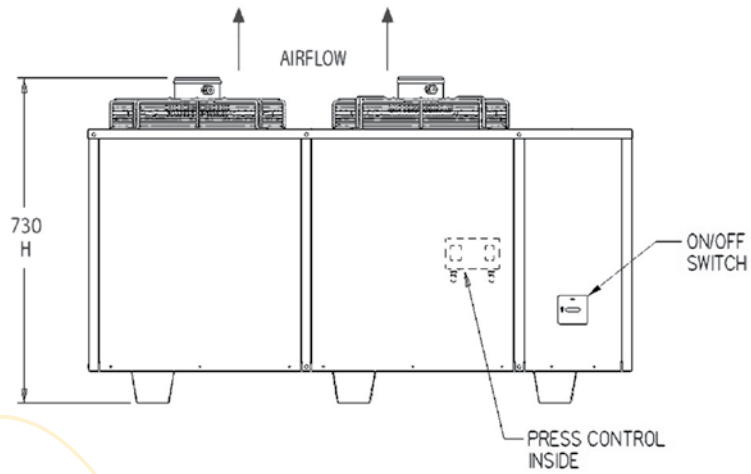


### Double Fan Physical Dimensions

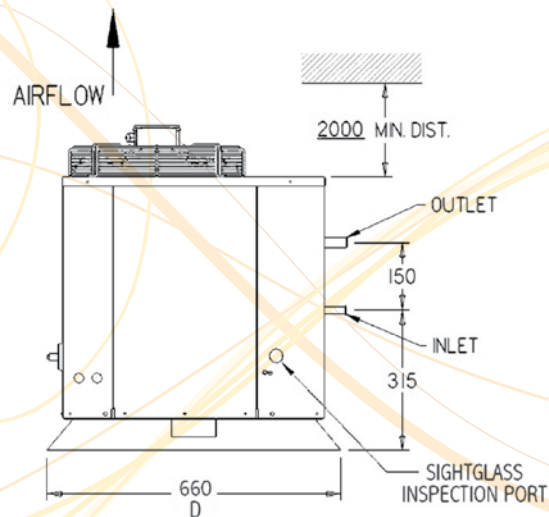
#### Plan View



#### Side View



#### End View (right side of unit)





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