

# Refrigeration Equipment Product Overview



People  
Product  
Partnerships

realcold

A BEIJER REF Company

## KIRBY CABINET COOLERS

Application Range:

Low Temperature 0.6kW - 1.7kW\*

Medium/High Temperature 0.3kW - 2.3kW\*

- Removable, discreet drain tray (housing) which is easily removed for cleaning and service.
- Heat exchanger with rifled bore tubing for high performance and exceptional oil return (KC & KCT Series).
- E-Kote coil protection.
- Dual Discharge option available (KCT Range).

Note: The Cabinet and Reach In coolers are optimised for performance to ensure the footprint of the unit remains compact. The low profile design increases shelf and retail display space.



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## KIRBY TA EVAPORATORS

Application Range:

Medium/High Temperature 4kW - 16kW

- High efficiency coil includes corrugated aluminium fins and grooved internal copper tubes, low velocity air discharge.
- Intelligent housing design and drainage offers for superior drainage and hygienic performance.
- The hinged drain pan offers improved accessibility to all the components and the housing is designed to accommodate installation of a condensate pump.
- Glycol application available.

Note: The casing with integrated fan guards offers improved aesthetics, perfect for open food preparation areas unit remains compact.



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## KIRBY 9000 SERIES EVAPORATORS

Application Range:

Low Temperature 1.2kW - 13.6kW

Medium/High Temperature 1.3kW - 19.8kW

The front facing quick connect terminal board simplifies wiring for faster install and servicing.

- Face heaters allow easy access for maintenance/replacement.
- Extended model and capacity range with low frost, heater assisted defrost and EC fan configuration models available.
- Separate panels for refrigeration/electrical connections (opp. ends).
- CO2 coil circuiting part of the 9000 Series (KLC/KMC).
- Glycol application models available.



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## BUFFALO TRIDENT CO<sub>2</sub> EVAPORATORS

Application Range:

Low Temperature 1.55kw - 6.5kw

Medium /High Temperature 1.62kw - 7.1kw

- Internal ripple finned tube for higher heat transfer performance.
- No condensation formation with thermally decoupled defrost tray.
- Max operating pressure 80 bar.

 **Buffalo Trident**  
 BY BITZER GROUP



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## KIRBY NULLARBOR CONDENSING UNITS

Application Range:

Low Temperature 0.3kW – 2.3kW

Medium/High Temperature 0.4kW – 4.9kW

- Condensers selections provide assured operation at 45°C ambient and enhance the life of the compressor.
- WJ/AW series include liquid line drier, sight glass and HP/LP control.
- Selected unit models are provided complete with a condensate waste tray and discharge heat loop for efficient condensate waste removal.



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## EASY PACK CONDENSING UNITS

Application Range:

Low Temperature 1.4kw – 5.2kw

Medium /High Temperature 2.0kw – 13.0kw

- Condenser Selections provide for 10k split at 30°C ambient.
- Include HP/LP control, dryer & sight glass, liquid line solenoid valve.
- Crankcase heater.
- Pressure relief valve fitted,
- Suction accumulator – all models,
- Oil separator – low temp models.



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## KIRBY POLAR PACK HERMETIC CONDENSING UNITS

Application Range:

Low Temperature 1.3kW – 6.0 kW

Medium/High Temperature 2.7 kW – 11.0 kW

- Fully pre-wired including condenser fan speed control as well as motor and phase failure protection.
- The package supports fast installation, express commissioning and easy servicing.
- Kirby Blue Kote Protection to condenser coil.
- Include crankcase heater, oil separator, liquid line dryer and sight glass, HP/LP control.
- Suction accumulator fitted to low temp units.



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Note: Condenser fan speed control is standard and controlled by condensing pressure. Select units can be supplied in horizontal airflow configuration allowing flexibility in installation location.

## KIRBY TITAN HERMETIC CONDENSING UNITS

Application Range:

Low Temperature 4.9kW - 12.6kW

Medium/High Temperature 12.6kW - 28.6kW

- Maneurop Hermetic Compressors.
- Fully pre-wired including, condenser fan speed control plus motor and phase failure protection (fan speed controlled by condensing pressures).
- Includes oil separator, liquid line dryer & sight glass, HP/LP control.
- Kirby Blue Kote Protection to condenser coil.



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## TECUMSEH PAC<sup>3</sup> CONDENSING UNITS

Fitted with either reciprocating or scroll compressor technology, optimised for space constrained landscapes.

Application Range:

Low Temperature 1.2kw - 5.6kw

Medium Temperature 2.0kw - 13.3kw.

- Configured for horizontal air flow.
- Fully pre-wired including condenser fan speed control.
- Fitted with crankcase heater, liquid line dryer & sightglass.
- HP/ LP control.
- Suction accumulator and oil separator.



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## KIRBY CONTAINER PACK CONDENSING UNITS

Application Range:

Low Temperature 3.3kW

Medium/High Temperature 6.0kW

- Incorporating single phase Maneurop compressors delivering reliability and proven performance.
- Fully wired with isolator, contactors, and circuit breaker - no temperature controller.
- High ambient vertical discharge condenser optimises efficiency and airflow for continuous operation at temperatures up to 45°C ambient temperatures.
- Durable painted galvabond bases maximise service life.
- Single unit offering both Medium and Low temperature capable.
- Premium quality inclusions and controls.
- Units include liquid line dryer, sight glass and HP/LP and liquid line solenoid valve.
- Suction Accumulator & Oil Separator.
- Suitable for R134A, R404A, R449A, R407F.



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## BITZER ECOLITE SEMI HERMETIC CONDENSING UNITS

Wide range ECOLITE compressors for low or medium temperature application as standard.

Application Range:

Low Temperature 3.7kw – 8.9kw

Medium Temperature 7.9kw – 18.4kw.

- Horizontal Air Flow.
- HP/LP Control.
- Oil Separator.
- Liquid line dryer & sight glass.
- CRIL capacity modulation and start unloader function.
- Pre-wired to include optimised condenser fan speed control (high side pressure reference).



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## KIRBY KRC REMOTE CONDENSERS

Application Range:

R404A 0.8kW – 17kW @ 1KTD R134a 0.7kW – 16kW @ 1KTD

- Optimised coil design incorporating inner grooved tube for enhanced heat transfer.
- Kirby Blue Koted fins for optimal UV protection and corrosion resistance.
- Header clearance holes ensure the end/divider plates prevent premature fatigue, failure and/or leaks.
- Powder coated galvanised casing for extended life.
- Dry cooler application available.

Note: Condenser fan speed control is standard and controlled by condensing pressure.  
Select units can be supplied in horizontal airflow configuration allowing flexibility in installation location.



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## GREEN & COOL TRANSCRITICAL CONDENSING UNITS

A basic cost effective natural refrigerant condensing unit.

Application Range:

Low Temperature 2.2kw – 4.9kw (nominal)

Medium Temperature 2.0kw – 6.7kw (nominal)

- Fitted with user friendly intelligent control system.
- 89 bar rated.



TBA



## Kirby® Cabinet Cooler Evaporators



### Overview and introduction

With a smart and aesthetically pleasing design, Kirby® Cabinet Coolers deliver the perfect combination of additional storage space and greater refrigerated storage capability.

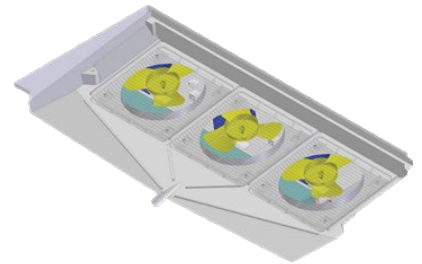
Offering long life and superior reliability that just keeps going, medium temperature models also feature E-Kote coil protection on all essential components including the copper, to safeguard against corrosion from airborne food acids. For larger medium temperature applications, twin air blowers deliver consistent and even air flow around the inside of the cabinet.



### Features and Benefits

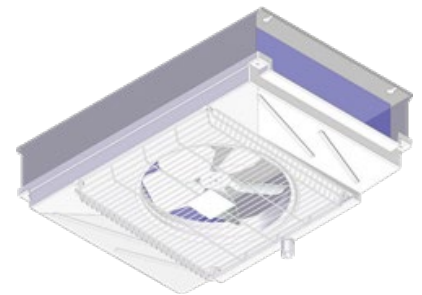
Medium Temperature Models:

- Compact, low profile design which gives more shelf space.
- Slim, neat profile for maximum cabinet storage space.
- Removable, discreet drain tray which is easily removed for cleaning and service.
- Heat exchanger with rifled bore tubing for high performance and exceptional oil return.
- Fan motors which can be easily removed for servicing.
- E-Kote coil protection for protection against the elements.
- Larger capacity twin blower coolers, suitable for larger sized cabinets.
- Suitable for high and medium temperature applications where a defrost heater is not required.



Low Temperature Models:

- Compact, low profile design which gives more shelf space.
- Slim, neat profile for maximum cabinet storage space.
- Removable, discreet drain tray which is easily removed for cleaning and service.
- Storage temperature capacity down to -32°C.
- In-built controls terminate the defrost cycle when required temperatures are reached.



### Kirby Cabinet Cooler Evaporators - Nomenclature

<p><b>K</b></p> <p><b>Manufacturer brand</b></p> <p>K Kirby</p>	<p><b>CT</b></p> <p><b>Usage Application</b></p> <p>F Low Temperature C Medium Temperature CT Medium Temperature - Twin Blow</p>	<p><b>1600</b></p> <p><b>Nominal Capacity</b></p>
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## KIRBY CABINET COOLER EVAPORATORS

### CABINET COOLER - MEDIUM TEMPERATURE

Stock No.	Watts @ 6 KTD			Fan Data				TX Valve
	R449A	R404A	R134a	Fan Qty.	Dimensions (mm)	Airflow (l/s)	Total Amps	
<b>KC MEDIUM TEMPERATURE</b>								
KC301	342	360	320	1	178	72	0.26	Internal
KC401	466	490	420	1	178	77	0.26	Internal
KC550	599	630	520	2	178	110	0.43	Internal
KC651	694	730	600	2	178	105	0.47	Internal
KC750	808	850	700	2	178	120	0.43	Internal
KC1001	1121	1180	970	3	178	165	0.72	Internal
KC1201	1216	1280	1140	3	178	175	0.65	Internal
KC1350	1501	1580	1220	3	178	265	0.82	External
KC1700	1786	1880	1460	3	200	380	0.67	External
KC2100	2233	2350	1810	3	200	350	0.67	External
<b>KCT MEDIUM TEMPERATURE - DUAL DISCHARGE</b>								
KCT400	485	510	420	1	254	210	0.32	Internal
KCT600	694	730	550	1	254	210	0.32	Internal
KCT800	770	810	650	1	254	190	0.32	Internal
KCT1000	1036	1090	820	1	254	210	0.4	Internal
KCT1200	1292	1360	1070	1	254	230	0.4	External
KCT1600	1600	1780	1340	1	300	280	0.3	External

### CABINET COOLER - LOW TEMPERATURE

Stock No.	Watts @ 6 KTD		Fan Data				Heater Data		TX Valve
	R449A	R404A	Fan Qty.	Dimensions (mm)	Airflow (l/s)	Total Amps	Total Amps	Total Amps	
<b>KF LOW TEMPERATURE</b>									
KF600	589	620	3	178	160	0.72	720	3	Internal
KF750	751	790	3	178	175	0.65	720	3	External
KF1000	1112	1170	3	178	270	0.82	1225	5.1	External
KF1380	1397	1470	3	200	380	0.67	1700	7.1	External
KF1650	1625	1710	3	200	350	0.67	2200	9.2	External

## Kirby® TA Evaporators



### Overview and introduction

The twin air flow TA unit coolers with direct expansion or glycol water coils are designed for installation in cold rooms, air locks, laboratories, meat cutting and packing rooms, etc

### Features and Benefits

- High efficiency coil includes corrugated aluminum fins and grooved internal copper tubes, low velocity air discharge.
- Intelligent housing design and drainage offers for superior drainage and hygienic performance.
- The hinged drain pan offers improved accessibility to all the components and the housing is designed to accommodate installation of a condensate pump.
- Glycol application available.
- The casing with integrated fan guards offers improved aesthetics, perfect for open food preparation areas.



### KIRBY TA EVAPORATORS

Stock No.	Watts @ 10 KTD			Air Throw (m)	Fan Qty.	Dimensions (mm)			Nett Weight (kg)	TX Valve
	R449A	R404A	R134a			Width	Depth	Height		
TA1R6P-C	3734	3930	3654	3.5	1	866	800	361	22.6	External
TA2R6P-C	5786	6090	5664	3.5	2	1366	800	361	24.5	External
TA3R6P-C	7087	7460	6938	3.5	2	1366	800	361	27.6	External
TA4R6P-C	7657	8060	7496	3.5	2	1366	800	361	32.9	External
TA5R6P-C	10697	11260	10472	3.5	3	1866	800	379	36.4	External
TA6R6P-C	12550	13210	12285	3.2	3	1866	800	379	45.3	External
TA7R6P-C	15504	16320	15178	3.7	4	2366	800	379	54.7	External

CAPACITY - Performance calculations are intended as a guide only and actual capacity is subject to specific application conditions and the operating environment. Capacities are based on + 10 °C air inlet temperature and 0 °C air inlet temperature

RECOMMENDED CONDENSATE PUMP - SINGLE TA UNIT	
SI-30	SAUERMANN Condensate Pump



## Kirby® 9000 Evaporators



### Overview and Introduction

The Kirby® 9000 Series Evaporator has been specifically designed to overcome the usual limitations of a typical compact coil design. This low frost innovation uses a unique fin pattern to minimise latent load and maximise sensible load. Enhanced fin configuration means less moisture removal and vastly improved run times before ice formation.

By increasing the ratio of fin surface to tube surface, the Kirby 9000 Series Evaporator maintains airflow as ice builds up and the coil is able to hold ice for longer. The result is more stable room conditions and longer time between defrosts as well as greater energy efficiency.



### Market Segments

- Retail
- Cold storage
- Convenience
- Hospitality
- Process
- Industry

### Features and Benefits

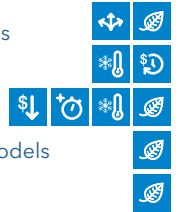
The Kirby® 9000 Series Evaporator offers:

- Simplified installation including factory wiring on all models for fans and heaters (excludes controls).
- High airflow from the latest generation fan assemblies ensures efficient pull down and air throw.
- Front opening access to electrical panel and separate panel for refrigeration components for ease of service.
- Face heaters allow easy access for maintenance and replacement.
- A supporting spare parts range accessible 24/7 through the Realcold wholesale network.

### Optional Enhancements

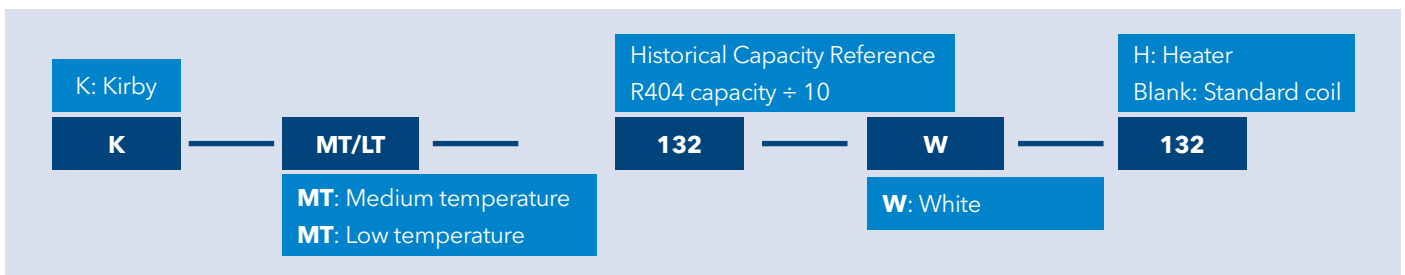
Kirby® 9000 Series can be configured with the following options:

- Special circuiting to suit glycol, CO2, water, split circuit and special operating conditions
- Expansion valves fitted
- EC fan motors
- Electric defrost for medium temperature models
- Air straightener



KEY CHART			
	Extended life		Sustainable solution
	Installation cost/time saving		Improved performance
	Improved efficiency		Flexible application

### Kirby 9000 Evaporators - Nomenclature



## KIRBY 9000 EVAPORATORS

### KMT - MEDIUM TEMPERATURE

Stock No.	Watts @ 6 KTD			Fan Qty.	Fan Data 240V 50HZ 1 Phase				Sound Power dB(A)**	Dry Weight (kg)
	R449A	R404A	R134a		Air		Total			
					Flow (l/s)*	Throw (m)	Watts	AMS		
KMT013W	1254	1320	1148	1	380	7.2	73	0.32	68	9.4
KMT016W	1539	1620	1409	1	360	6.9	73	0.32	68	10.3
KMT020W	1910	2010	1749	1	340	6.5	73	0.32	68	11.5
KMT027W	2565	2700	2349	2	760	10.3	146	0.64	71	15.1
KMT034W	3230	3400	2958	2	720	9.8	146	0.64	71	16.9
KMT038W	3591	3780	3289	2	680	9.3	146	0.64	71	18.7
KMT051W	4798	5050	4394	3	1080	12.1	219	0.96	72	23.0
KMT060W	5662	5960	5185	3	1020	11.5	219	0.96	72	26.0
KMT067W	6318	6650	5786	4	1440	13.6	292	1.28	74	29.9
KMT081W	7648	8050	7004	4	1360	12.9	292	1.28	74	32.4
KMT023W	2204	2320	2018	1	700	8.8	155	0.65	71	14.7
KMT045W	4275	4500	3915	2	1400	12.6	310	1.3	75	25.3
KMT063W	5938	6250	5438	2	1400	12.6	310	1.3	75	26.3
KMT071W	6745	7100	6177	2	1375	11.9	310	1.3	75	30.4
KMT093W	8835	9300	8091	3	2160	15.4	465	1.95	77	37.7
KMT106W	10070	10600	9222	3	2060	14.7	465	1.95	77	42.6
KMT121W	11495	12100	10527	3	1970	14.2	465	1.95	77	47.6
KMT132W	12540	13200	11484	4	2880	17.3	620	2.6	79	49.5
KMT154W	14630	15400	13398	4	2630	15.9	620	2.6	79	63.7
KMT165W	15675	16500	14355	5	3600	19.3	775	3.25	80	60.5
KMT198W	18810	19800	17226	5	3280	17.8	775	3.25	80	77.5

Performance Rating Basis KMT

CAPACITY - Performance calculations are intended as a guide only and actual capacity is subject to specific application conditions and the operating environment. Capacities are based on +2°C air on temperature, and 6KTD. KTD is defined as "air on temperature - leaving refrigerant saturation temperature."

## KIRBY 9000 EVAPORATORS

### KLT - LOW TEMPERATURE

Stock No.	Watts @ 6 KTD		Fan Data 240V 50HZ 1 Phase					Heater Deforst				Dry Weight (kg)
	R449A	R404A	Fan Qty.	Air		Total		Sound Power dB(A)**	Total watts	Amps (1 Ph)	Max AMPS /Ph	
				Flow (l/s)*	Throw (m)	Watts	AMS					
<b>300mm FAN DIAMETER</b>												
KLT013W	1216	1280	1	360	6.4	73	0.32	68	900	3.75	-	10.8
KLT015W	1397	1470	1	340	6.0	73	0.32	68	900	3.75	-	11.8
KLT024W	2280	2400	2	720	9.1	146	0.64	71	1800	7.5	-	17.5
KLT028W	2641	2780	2	680	8.6	146	0.64	71	1800	7.5	-	19.4
KLT030W	2850	3000	2	680	8.6	146	0.64	71	1800	7.5	-	19.5
KLT036W	3420	3600	3	1080	11.2	219	0.96	72	2700	-	3.75	24.4
KLT042W	3943	4150	3	1020	10.6	219	0.96	72	2700	-	3.75	26.5
KLT062W	5890	6200	4	1360	11.9	292	1.28	74	3600	-	5	34.6
<b>350mm FAN DIAMETER</b>												
KLT021W	1948	2050	1	700	8.1	155	0.65	71	1600	6.67	-	15.51
KLT045W	4275	4500	2	1400	11.6	310	1.3	75	3200	-	6.67	27.02
KLT050W	4703	4950	2	1400	11.6	310	1.3	75	3200	-	6.67	27.82
KLT054W	5083	5350	2	1375	11.0	310	1.3	75	3200	-	6.67	31.23
KLT067W	6318	6650	3	2160	14.3	465	1.95	77	4800	-	10	38.05
KLT075W	7078	7450	3	2160	14.3	465	1.95	77	4800	-	10	38.87
KLT089W	8455	8900	3	2060	13.6	465	1.95	77	4800	-	10	45.18
KLT100W	9500	10000	4	2750	15.2	620	2.6	79	6400	-	13.33	58.94
KLT113W	10735	11300	4	2750	15.2	620	2.6	79	6400	-	13.33	62.96
KLT126W	11970	12600	5	3600	17.9	775	3.25	80	8000	-	16.67	69.58
KLT136W	12920	13600	5	3440	17.0	775	3.25	80	8000	-	16.67	77.82

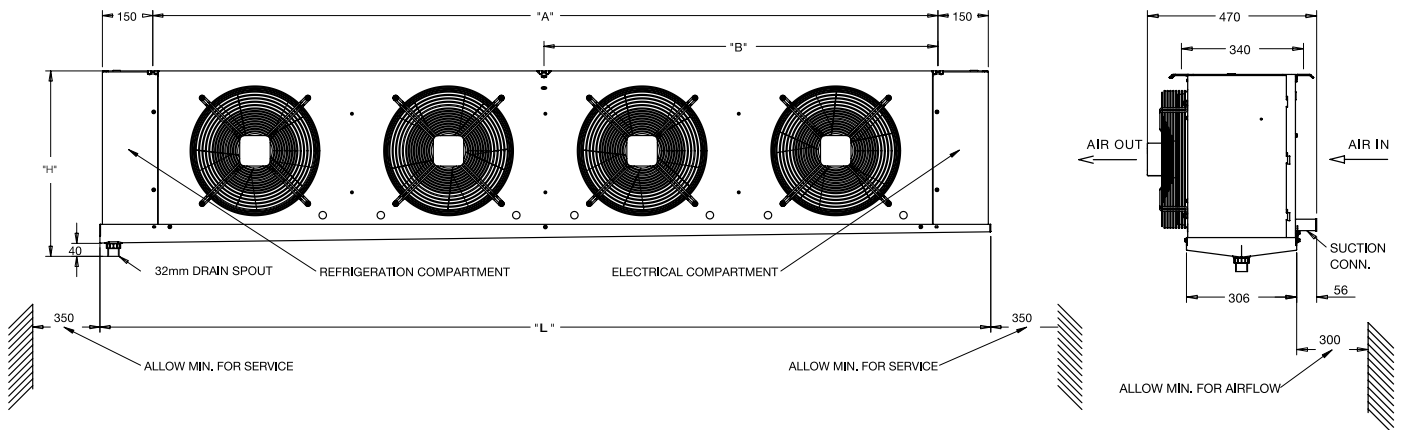
Performance Rating Basis KLT

CAPACITY - Performance calculations are intended as a guide only and actual capacity is subject to specific application conditions and the operating environment. Capacities are based on -18°C air on temperature, and 6KTD. KTD is defined as air on temperature - leaving refrigerant saturation temperature.

# KIRBY 9000 EVAPORATORS

## DIMENSIONS

Stock No.	A (mm)	B (mm)	L Length (mm)	H Length (mm)	Connection Data		Stock No.	A (mm)	B (mm)	L Length (mm)	H Length (mm)	Connection Data	
					Liquid (mm)	Suction (mm)						Liquid (mm)	Suction (mm)
<b>300mm FAN DIAMETER</b>							<b>300mm FAN DIAMETER</b>						
KMT013W	440	-	750	430	9.5	9.5	KLT013W	440	-	750	430	12.7	15.9
KMT016W	440	-	750	430	9.5	9.5	KLT015W	440	-	750	430	12.7	15.9
KMT020W	440	-	750	430	12.7	12.7	KLT024W	845	-	1155	430	12.7	19.1
KMT027W	845	-	1155	430	12.7	12.7	KLT028W	845	-	1155	430	12.7	22.2
KMT034W	845	-	1155	430	12.7	15.9	KLT030W	845	-	1155	430	12.7	22.2
KMT038W	845	-	1155	430	12.7	15.9	KLT036W	1250	-	1560	430	12.7	22.2
KMT051W	1250	-	1560	430	12.7	19.1	KLT042W	1250	-	1560	430	12.7	25.4
KMT060W	1250	-	1560	430	12.7	19.1	KLT062W	1660	-	1970	430	12.7	25.4
KMT067W	1660	-	1970	430	12.7	22.2	<b>350mm FAN DIAMETER</b>						
KMT081W	1660	-	1970	430	12.7	22.2	KLT021W	540	-	850	545	9.5	19.1
<b>350mm FAN DIAMETER</b>							KLT045W	1175	-	1485	545	9.5	25.4
KMT023W	540	-	850	545	12.7	12.7	KLT050W	1175	-	1485	545	9.5	25.4
KMT045W	1175	-	1485	545	12.7	19.1	KLT054W	1175	-	1485	545	9.5	25.4
KMT063W	1175	-	1485	545	12.7	22.2	KLT067W	1745	-	2060	545	9.5	28.6
KMT071W	1175	-	1485	545	12.7	22.2	KLT075W	1745	-	2060	545	9.5	28.6
KMT093W	1745	-	2060	545	12.7	25.4	KLT089W	1745	-	2060	545	12.7	31.8
KMT106W	1745	-	2060	545	12.7	25.4	KLT100W	2320	1165	2630	545	12.7	34.9
KMT121W	1745	-	2060	545	12.7	25.4	KLT113W	2320	1165	2630	545	12.7	41.3
KMT132W	2320	1165	2630	545	15.9	25.4	KLT126W	2890	1735	3200	545	12.7	41.3
KMT154W	2320	1165	2630	545	15.9	28.6	KLT136W	2890	1735	3200	545	12.7	41.3
KMT165W	2890	1735	3200	545	15.9	28.6							
KMT198W	2890	1735	3200	545	15.9	31.8							





## Buffalo Trident CO<sub>2</sub> Evaporators



### Overview and Introduction

The constant push for smaller, cheaper, quieter and better performing equipment is at the forefront of design. To achieve these goals, BUFFALO TRIDENT employs a host of strategies to achieve a delicate balance between performance, size and noise levels. Innovative technologies and modern design means our evaporators set the standards in engineering excellence, flexibility and reliability. Gains come from using smaller tube designs, in combination with high efficiency EC fans and economic superheat control solutions. Our evaporators are available in a multitude of configurations and are therefore suitable for a wide range of customer specifications.



### Features and Benefits

- Natural refrigerant - environmentally safe and non-toxic.
- Internal ripple finned tube for higher heat transfer performance.
- No condensation formation with thermally-decoupled tray.
- Max operating pressure up to 80 bar (CX-units).

### R744 (CO<sub>2</sub>) EVAPORATORS - MEDIUM TEMP

Conditions: Evap Temp: -4°C, Air Temp: 2°C, Cond Temp: 6°C, SC: 1K, SH: 5K

Stock No.	Model	Capacity (kW)	No. Fans	Fan Dia. (mm)	Defrost Type	Length (mm)	Width (mm)	Height (mm)
<b>GACC - Cubic Range</b>								
BGC016M	GACC CX 031.1_1-40.A	1.62	1	310	Air	752	430	455
BGC019M	GACC CX 031.1_1-40.A	1.98	1	310	Air	752	430	455
BGC025M	GACC CX 031.1_1-40.A	2.50	1	310	Air	752	430	455
BGC034M	GACC CX 031.1_2-40.A	3.40	2	310	Air	1212	430	455
BGC051M	GACC CX 031.1_2-60.A	5.10	2	310	Air	1212	430	455
BGC076M	GACC CX 031.1_3-40.A	7.60	3	310	Air	1672	430	455
<b>GASC - Slimline</b>								
BGS014M	GASC CX 031.1_1-60.A	1.43	1	310	Air	964	580	337
BGS017M	GASC CX 031.1_1-60.A	1.77	1	310	Air	964	580	337
BGS029M	GASC CX 031.1_2-60.A	2.90	2	310	Air	1644	580	337
BGS050M	GASC CX 031.1_3-40.A	5.00	3	310	Air	2324	580	337
BGS071M	GASC CX 031.1_3-60.A	7.10	3	310	Air	2324	580	337

## BUFFALO TRIDENT CO<sub>2</sub> EVAPORATORS

### R744 (CO<sub>2</sub>) EVAPORATORS - LOW TEMP

Conditions: Evap temp: -24°C, Air Temp: -18°C, Cond Temp: 2°C, SC: 1K, SH: 5K

Stock No.	Model	Capacity (kW)	No. Fans	Fan Dia. (mm)	Defrost Type	Length (mm)	Width (mm)	Height (mm)
<b>GACC - Cubic Range</b>								
<b>BGC014L</b>	GACC CX 031.1_1-60.E	1.44	1	310	Electric	752	430	455
<b>BGC019L</b>	GACC CX 031.1_1-60.E	1.91	1	310	Electric	752	430	455
<b>BGC030L</b>	GACC CX 031.1_2-60.E	3.00	1	310	Electric	1212	430	455
<b>BGC037L</b>	GACC CX 040.1_1-60.E	3.70	1	400	Electric	1006	560	565
<b>GASC - Slimline</b>								
<b>BGS012L</b>	GASC CX 031.1_1-60.E	1.26	1	310	Electric	964	580	337
<b>BGS014L</b>	GASC CX 031.1_1-40.E	1.47	1	310	Electric	964	580	337
<b>BGS020L</b>	GASC CX 031.1_1-60.E	2.00	1	310	Electric	964	580	337
<b>BGS043L</b>	GASC CX 013.1_2-40.E	4.30	2	310	Electric	1644	580	337
<b>BGS065L</b>	GASC CX 031.1_3-40.E	6.50	3	310	Electric	2324	580	337

## Kirby® Nullarbor Condensing Units



### Overview and Introduction

The Nullarbor Hi-Ambient condensing units are rated for operation up to 45°C ambient. With improved performance due to the inclusion of large condensers, the Kirby Nullarbor range delivers high output and efficiency. Additionally because they're from Kirby, they're robust and reliable - guaranteed.

### Market Segments

- Retail
- Hospitality
- Institutional
- Light Industrial

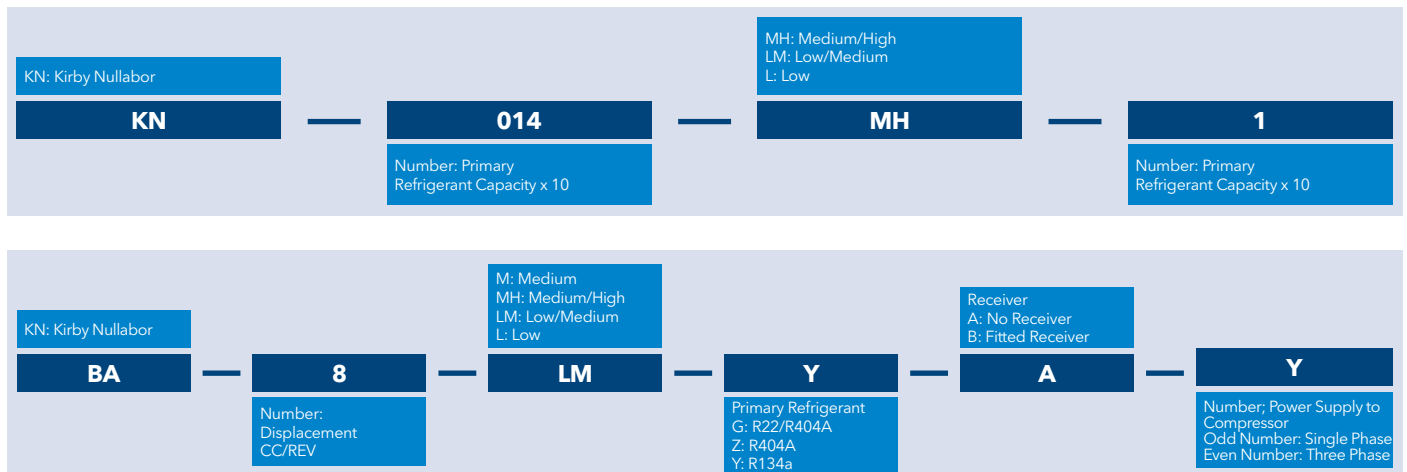


### Features and Benefits

The Nullarbor Condensing Units offer proven design attributes to be installation ready:

- Incorporating the latest Kirby BA, WJ and AW series compressors that delivers reliability and proven performance.
- High ambient condenser optimises efficiency and airflow for continuous operation at temperatures up to 45°C ambient temperatures.
- Durable painted galvabond bases maximise service life.
- Lower noise and vibration levels through clever compressor design.
- Compact footprint for ease of installation.
- Premium quality inclusions and controls.
- KN units include liquid line dryer, sight glass and HP/LP control.

### Kirby Nullarbor Condensing Units - Nomenclature



## KIRBY NULLARBOR CONDENSING UNITS

### R513A / R134A MEDIUM TEMP

Stock No.	Model	Disp. (cc)	Amb (°C)	Capacity (Watts)				RLA (A)	Receiver Volume (L)	Nom. HP
				R513A		R134a				
				-5°C	+5°C	-5°C	+5°C			
220-240/1/50 - Single Phase										
CK2210	BA9MHYB1	8.9	32	507	821	483	782	2.6	1.4	1/4
			40	462	746	440	710			
CK2211	BA12LMYB1	12.1	32	695	1079	662	1028	2.9	1.4	1/3
			40	630	982	600	935			
CK2212	BA14LMYB1	14.1	32	793	1252	755	1192	4.0	1.4	1/3
			40	719	1134	685	1080			
CK2213	BA16LMYB1	16.2	32	1126	1758	1072	1674	3.0	1.4	3/8
			40	1019	1607	970	1530			
CK2214	BA18LZB1	18.0	32	1241	1911	1182	1820	3.5	2.4	1/2
			40	1124	1743	1070	1660			
CK2215	WJ22LZB1N	21.5	32	1464	2329	1394	2218	4.1	2.4	3/4
			40	1323	2121	1260	2020			
CK2216	WJ26LZB1N	26.8	32	1775	2768	1690	2636	4.6	2.4	7/8
			40	1607	2520	1530	2400			
CK2217	WJ31LZB1N	30.5	32	2050	3131	1952	2982	5.5	2.4	1.0
			40	1859	2856	1770	2720			
CK2218	AW43LMYB1N	43.1	32	2911	4652	2772	4430	5.8	4.4	1-1/4
			40	2636	4242	2510	4040			
CK2219	AW48MHYB3N	48.1	32	3165	5038	3014	4798	8.2	4.4	1-1/2
			40	2867	4578	2730	4360			

Rating Conditions: ASHRAE-T Standard

**Note:** The suffix N denotes that the unit includes liquid line drier, sight glass and HP/LP control



## KIRBY NULLARBOR CONDENSING UNITS

### R449A / R404A - MEDIUM TEMP

Stock No.	Model	Disp. (cc)	Amb (°C)	Capacity (Watts)				RLA (A)	Receiver Volume (L)	Nom. HP
				R449A		R404A				
				-5°C	+5°C	-5°C	+5°C			
220-240/1/50 - Single Phase										
CK2231	BA6MHGB1	5.5	32	397	563	446	633	2.8	1.4	1/4
			40	347	490	390	550			
CK2221	BA8MGB1	7.6	32	592	778	665	874	2.8	1.4	1/4
			40	521	685	585	770			
CK2232	BA9MGB1	8.9	32	706	965	793	1084	3.2	1.4	1/3
			40	614	841	690	945			
CK2233	BA12MGB1	12.1	32	913	1242	1026	1396	2.8	1.4	3/8
			40	783	1077	880	1210			
CK2234	BA14MGB1	14.1	32	1077	1463	1210	1644	3.4	1.4	1/2
			40	926	1273	1040	1430			
CK2235	BA16MGB1	16.2	32	1337	1846	1502	2074	3.0	2.4	3/4
			40	1157	1611	1300	1810			
CK2236	BA18MGB1	18.0	32	1638	2207	1840	2480	4.4	2.4	3/4
			40	1415	1914	1590	2150			
CK2237	WJ22MHGB1N	21.5	32	2017	2775	2266	3118	5.6	2.4	7/8
			40	1744	2403	1960	2700			
CK2238	WJ26MHGB1N	26.8	32	2417	3339	2716	3752	7.0	2.4	1.0
			40	2127	2875	2390	3230			
CK2240	WJ31MHGB1N	30.5	32	3124	4341	3510	4878	7.9	2.4	1-1/4
			40	2715	3756	3050	4220			
CK2239	AW38MGB1N	37.5	32	3078	4210	3458	4730	7.9	4.4	1-1/2
			40	2652	3649	2980	4100			
CK2241	AW43MHGB1N	43.1	32	3786	5283	4254	5936	9.6	4.4	2.0
			40	3257	4646	3660	5220			
CK2242	AW48MHGB1N	48.4	32	4133	5936	4644	6670	11.2	4.4	2-1/4
			40	3569	5215	4010	5860			
CK2243	AW54MHGB3N	53.5	32	4418	6152	4964	6912	12.5	4.4	2-1/2
			40	3809	-	4280	-			

Rating Conditions: ASHRAE-T Standard

**Note:** The suffix N denotes that the unit includes liquid line drier, sight glass and HP/LP control

## KIRBY NULLARBOR CONDENSING UNITS

### R449A / R404A - LOW TEMP

Stock No.	Model	Disp. (cc)	Amb. (°C)	Capacity (Watts)				RLA (A)	Receiver Volume (L)	Nom. HP
				R449A		R404A				
				-25°C	-20°C	-25°C	-20°C			
220-240/1/50 - Single Phase										
CK2221	BA8MGB1	7.6	32	296	361	333	406	2.6	1.4	1/4
			40	254	316	285	355			
CK2211	BA12LMYB1	12.1	32	429	521	482	585	2.8	1.4	1/3
			40	369	454	415	510			
CK2212	BA14LMYB1	14.1	32	512	624	575	701	4.0	1.4	1/3+
			40	441	543	495	610			
CK2213	BA16LMYB1	16.2	32	579	707	651	794	2.8	1.4	3/8
			40	503	619	565	695			
CK2214	BA18LZB1	18.0	32	764	947	858	1064	3.5	2.4	1/2
			40	663	828	745	930			
CK2215	WJ22LZB1N	21.5	32	828	1038	930	1166	3.3	2.4	3/4
			40	690	877	775	985			
CK2216	WJ26LZB1N	26.8	32	1029	1298	1156	1458	4.8	2.4	7/8
			40	877	1113	985	1250			
CK2217	WJ31LZB1N	30.5	32	1264	1568	1420	1762	5.5	2.4	1.0
			40	1059	1335	1190	1500			
CK2218	AW43LMYB1N	43.1	32	1752	2159	1968	2426	5.8	4.4	1-1/4
			40	1513	1887	1700	2120			
CK2222	AW54LZB1N	53.5	32	2052	2572	2306	2890	7.8	4.4	1-1/2
			40	1780	2243	2000	2520			

Rating Conditions: ASHRAE-T Standard

**Note:** The suffix N denotes that the unit includes liquid line drier, sight glass and HP/LP control

## KIRBY NULLARBOR CONDENSING UNITS

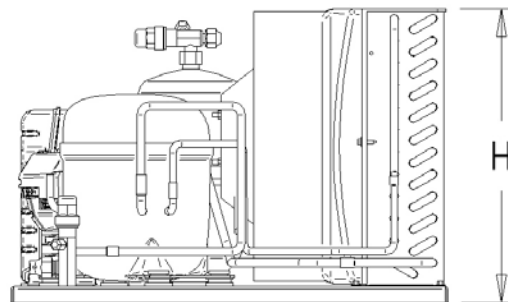
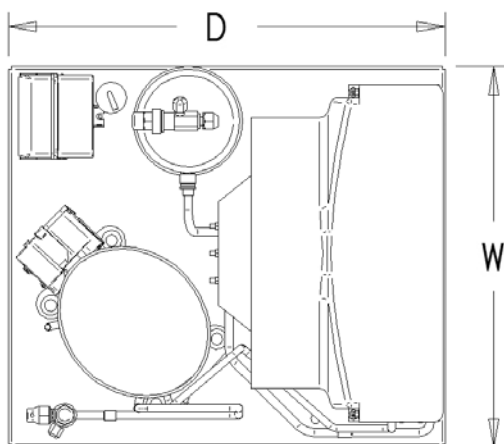
### NULLARBOR TECHNICAL DATA

Stock No.	Cond. Unit Model	Compressor Model	Volts Phase	Fan Motor		Connections		Dimensions (mm)			Weight (Kg)
				Qty.	Motor Dia.	Suction	Liquid	W	D	H	
<b>R134a Medium Temperature</b>											
CK2210	BA9MHYB1	BA9MHY	240 V 1	1	230	3/8	1/4	330	470	280	18
CK2211	BA12LMYB1	BA12LMY		1	230	3/8	1/4	330	470	280	19
CK2212	BA14LMYB1	BA14LMY		1	230	3/8	1/4	330	470	280	22
CK2213	BA16LMYB1	BA16LMY		1	300	3/8	1/4	435	500	338	32
CK2214	BA18LZB1	BA18LZ		1	300	3/8	3/8	435	550	338	34
CK2215	WJ22LZB1N	WJ22LZ		1	300	1/2	3/8	435	550	338	37
CK2216	WJ26LZB1N	WJ26LZ		1	300	1/2	3/8	435	550	338	38
CK2217	WJ31LZB1N	WJ31LZ		1	300	5/8	3/8	520	620	395	41
CK2218	AW43LMYB1N	AW43LZ		2	300	5/8	3/8	520	620	446	60
CK2219	AW48MHYB3N	AW48MHY		2	300	5/8	3/8	860	550	418	70
<b>R404A Medium Temperature</b>											
CK2231	BA6MHGB1	BA6MHG	240 V 1	1	200	3/8	1/4	330	470	276	17
CK2221	BA8MGB1	BA8MG		1	200	3/8	1/4	330	470	276	17
CK2232	BA9MGB1	BA9MG		1	230	3/8	1/4	330	470	276	21
CK2233	BA12MGB1	BA12MG		1	300	3/8	1/4	330	470	276	22
CK2234	BA14MGB1	BA14MG		1	300	3/8	1/4	435	500	338	34
CK2235	BA16MGB1	BA16MG		1	300	3/8	1/4	435	500	338	35
CK2236	BA18MGB1	BA18MG		1	300	3/8	3/8	520	620	395	37
CK2237	WJ22MHGB1N	WJ22MHG		1	300	1/2	3/8	520	620	395	41
CK2238	WJ26MHGB1N	WJ26MHG		1	300	1/2	3/8	520	620	446	42
CK2240	WJ31MHGB1N	WJ31MHG		1	350	5/8	3/8	520	620	446	43
CK2239	AW38MGB1N	AW38MG		2	300	5/8	3/8	860	550	418	63
CK2241	AW43MHGB1N	AW43MHG		2	300	5/8	3/8	860	550	421	69
CK2242	AW48MHGB1N	AW48MHG		2	300	5/8	3/8	860	550	421	71
CK2243	AW54MHGB3N	AW54MHG		2	300	5/8	3/8	860	550	421	71

## KIRBY NULLARBOR CONDENSING UNITS

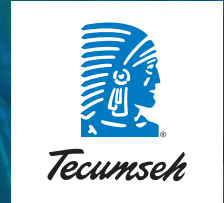
### NULLARBOR TECHNICAL DATA

Stock No.	Cond. Unit Model	Compressor Model	Volts Phase	Fan Motor		Connections		Dimensions (mm)			Weight (Kg)
				Qty.	Motor Dia.	Suction	Liquid	W	D	H	
<b>R404A Low Temperature</b>											
CK2221	BA8MGB1	BA8MG	240 V 1	1	200	3/8	1/4	330	470	276	17
CK2211	BA12LMYB1	BA12LMY		1	230	3/8	1/4	330	470	280	19
CK2212	BA14LMYB1	BA14LMY		1	230	3/8	1/4	330	470	280	22
CK2213	BA16LMYB1	BA16LMY		1	300	3/8	1/4	435	500	338	32
CK2214	BA18LZB1	BA18LZ		1	300	3/8	3/8	435	550	338	34
CK2215	WJ22LZB1N	WJ22LZ		1	300	1/2	3/8	435	550	338	37
CK2216	WJ26LZB1N	WJ26LZ		1	300	1/2	3/8	435	550	338	38
CK2217	WJ31LZB1N	WJ31LZ		1	300	5/8	3/8	520	620	395	41
CK2218	AW43LMYB1N	AW43LZ		2	300	5/8	3/8	520	620	446	60
CK2222	AW54LZB1N	AW54LZ		2	300	5/8	3/8	860	550	421	68





## EasyPack Hermetic Condensing Units



### Overview and Introduction

The EasyPack series of hermetic refrigeration condensing units provide a high quality professional solution for all commercial refrigeration applications. Common applications include cabinets, cool rooms, freezers, convenience stores, restaurants, pubs and clubs, food processing and many more.

### Features and Benefits

- Tecumseh Hermetic compressor.
- Large HTA condenser.
- Factory wired single phase fan motor/s.
- Liquid receiver.
- Pressure Relief valve.
- Liquid line dryer / sight glass/ solenoid valve.
- Suction Accumulator - all models.
- Oil Separator - Low temperature models.
- HP/LP control.
- Oil sight glass on FH, TFH and TAG models.
- Crankcase heater on FH, TFH and TAG models.



Application Range:

**Low Temp - 1.4Kw - 5.3Kw**

**Med Temp - 2.2Kw - 13.0 Kw**

### R513A / R134A - MEDIUM TEMP

Stock No.	Model	Compressor	Disp. (cc)	Amb. (°C)	Capacity (Watts)				RLA (A)	Receiver Volume (L)	Nom. HP
					R513A		R134a				
					-5°C	+5°C	-5°C	+5°C			
<b>220-240/1/50 - Single Phase</b>											
C0810	RMTY100	CAJ4511Y	32.7	32	2175	3052	2071	2992	8.8	2.3	1.0
				40	1937	2727	1845	2674			
C0811	RMTY150	FH4518Y	53.2	32	3065	4553	2919	4464	11.8	2.3	1-1/2
				40	2636	4011	2510	3932			
C0812	RMTY200	FH4525Y	74.3	32	4250	6012	4048	5894	15.8	2.3	2.0
				40	3683	5315	3508	5211			
<b>380-420/3/50 - Three Phase</b>											
C0813	RMTYX230	TAG4528Y	90.2	32	4287	6507	4083	6379	11.1	2.3	2.5
				40	3734	5763	3556	5650			
C0814	RMTYX300	TAG4537Y	112.5	32	5924	8501	5642	8334	11.1	2.3	3.0
				40	5108	7441	4865	7295			
C0815	RMTYX390	TAG4547Y	134.8	32	7249	10185	6904	9985	11.6	3.9	4.0
				40	6293	8962	5993	8786			

Rating Conditions: EN13215 at stated ambient, 20°C return gas temp & 3K Subcooling.

**Notes:**

- Models RMTY100 to RMTY200 include HP/LP control, liquid line drier, sight glass, solenoid valve, crankcase heater and pressure relief valve fitted.
- Models RMTYX230 to RMTYX390 include HP/LP control, liquid line drier, sight glass, solenoid valve, suction accumulator, crankcase heater and pressure relief valve fitted.

## EASYPACK HERMETIC CONDENSING UNITS

### R449A / R404A - MEDIUM TEMP

Stock No.	Model	Compressor	Disp. (cc)	Amb. (°C)	Capacity (Watts)				RLA (A)	Receiver Volume (L)	Nom. HP
					R449A		R404A				
					-5°C	+5°C	-5°C	+5°C			
<b>220-240/1/50 - Single Phase</b>											
C0757E	RMTZ112	CAJ9513Z	24.2	32	1960	2797	2186	2845	11.5	2.3	1-1/8
				40	1724	-	1888	-			
C0759E	RMTZ150	CAJ4519Z	34.5	32	3073	4395	3448	4545	16	2.3	1-1/2
				40	2736	-	3015	3985			
C0762E	RMTZ200	FH4524Z	43.5	32	3750	5546	4256	5815	20.7	2.3	2.0
				40	3258	4934	3641	5048			
C0764E	RMTZ250	FH4531Z	56.6	32	4857	7032	5492	7307	23.5	3.9	2-1/2
				40	4188	-	4653	6325			
<b>380-420/3/50 - Three Phase</b>											
C0964E	RMTXZ300	TFH4540Z	74.2	32	6153	8876	6942	9247	10.3	6.0	3.0
				40	5420	7947	6005	8050			
C0968E	RMTXZ450	TAG4553Z	100.7	32	8193	12351	9310	13001	16.3	6.0	4-1/2
				40	6904	10500	7845	11053			
C0971E	RMTXZ500	TAG4561Z	112.5	32	9090	13487	10381	14278	17.6	6.0	5.0
				40	7854	11848	8836	12229			
C0973E	RMTXZ600	TAG4573Z	134.8	32	11466	16660	13029	17537	21.3	9.0	6-1/2
				40	10006	14614	11371	15383			

Rating Conditions: EN13215 at stated ambient, 20°C return gas temp & 3K Subcooling.

**Notes:**

- Models RMTZ112 to RMTZ450 include HP/LP control, liquid line drier, sight glass, solenoid valve, crankcase heater and pressure relief valve fitted.
- Models RMTXZ500 & RMTZ600 include HP/LP control, liquid line drier, sight glass, solenoid valve, suction accumulator, crankcase heater and pressure relief valve fitted.

## EASYPACK HERMETIC CONDENSING UNITS

### R449A / R404A - LOW TEMP

Stock No.	Model	Compressor	Disp. (cc)	Amb. (°C)	Capacity (Watts)				RLA (A)	Receiver Volume (L)	Nom. HP
					R449A		R404A				
					-25°C	-20°C	-25°C	-20°C			
<b>220-240/1/50 - Single Phase</b>											
C0787E	RLTZ150	CAJ2464Z	34.5	32	1259	1522	1415	1710	10.2	2.3	1-1/2
				40	1080	1310	1214	1472			
C0789E	RLTZ200	FH2480Z	53.2	32	2063	2546	2318	2861	16.5	2.3	2.0
				40	1769	2208	1988	2481			
<b>380-420/3/50 - Three Phase</b>											
C0793E	RLTZ300	TFH2511Z	74.2	32	2522	3095	2834	3477	7.8	3.9	3.0
				40	2166	2678	2434	3009			
C0794E	RLTZ400	TAG2516Z	112.5	32	3920	4946	4405	5557	10.2	6.0	4.0
				40	3372	4253	3788	4779			
C0795E	RLTZ500	TAG2522Z	134.8	32	4681	5796	5259	6512	14.2	9.0	5.0
				40	4025	4984	4523	5600			

Rating Conditions: EN13215 at stated ambient, 20°C return gas temp & 3K Subcooling.

**Notes:**

- Models RLTZ150 to RLTZ500 include HP/LP control, liquid line drier, sight glass, solenoid valve, suction accumulator, oil separator, crankcase heater and pressure relief valve fitted.

## EASYPACK HERMETIC CONDENSING UNITS

### TECHNICAL DATA

Stock No.	Cond. Unit Model	Compressor Model	Volts Phase	Fan Motor		Connections		Dimensions (mm)			Weight (Kg)
				Qty.	Motor Dia.	Suction	Liquid	W	D	H	
<b>R134a Medium Temperature</b>											
C0810	RMTY100	CAJ4511Y	240V 1	1	350	5/8	3/8	550	640	500	40
C0811	RMTY150	FH4518Y		1	350	5/8	3/8	550	640	500	51
C0812	RMTY200	FH4525Y		1	400	5/8	3/8	800	700	820	95
C0813	RMTYX230	TAG4528Y	400V 3	2	400	5/8	3/8	1140	720	810	115
C0814	RMTYX300	TAG4537Y		2	400	7/8	3/8	1140	720	810	128
C0815	RMTYX390	TAG4547Y		2	400	7/8	3/8	1140	720	810	133
<b>R404A Medium Temperature</b>											
C0757E	RMTZ112	CAJ9513Z	240V 1	1	350	5/8	3/8	550	650	465	47
C0759E	RMTZ150	CAJ4519Z		1	400	5/8	3/8	600	600	560	60
C0762E	RMTZ200	FH4524Z		1	400	5/8	3/8	600	600	560	73
C0764E	RMTZ250	FH4531Z		1	400	7/8	3/8	600	600	560	76
C0964E	RMTXZ300	TFH4540Z	400V 3	1	400	7/8	1/2	600	600	560	80
C0968E	RMTXZ450	TAG4553Z		2	400	7/8	1/2	1080	680	565	118
C0971E	RMTXZ500	TAG4561Z		2	400	1-1/8	1/2	1080	680	565	118
C0973E	RMTXZ600	TAG4573Z		2	400	1-1/8	1/2	1080	680	565	135
<b>R404A Low Temperature</b>											
C0787E	RLTZ150	CAJ2464Z	240V 1	1	350	5/8	3/8	550	650	395	40
C0789E	RLTZ200	FH2480Z		1	400	5/8	3/8	600	600	560	73
C0793E	RLTZ300	TFH2511Z	400V 3	1	400	5/8	3/8	600	600	560	80
C0794E	RLTZ400	TAG2516Z		2	400	7/8	3/8	1080	680	565	107
C0795E	RLTZ500	TAG2522Z		2	400	7/8	1/2	1080	680	565	107

## Kirby® Polar Pack Condensing Units



### Overview and Introduction

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.

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.



### Features and Benefits

The Polar Pack Condensing Units offer proven design attributes to be installation ready:

- Wide model range between 1.3Kw and 11.0kW.
- True high ambient condenser design, with operating capacity up to 45°C.
- Removable panels for ease of servicing.
- Factory pre-wired for quicker, easier installation and commissioning.
- Phase failure protection module.
- Coil protection as standard on all models.
- Powder coated exterior for long wearing durability.
- Suction accumulator as standard on all low temperature models.
- Kirby® Polar Pack condensing units can be configured with the following options: Horizontal airflow on select models.

### Kirby Polar Pack Condensing Units - Nomenclature

<p><b>PP</b></p> <p><b>Unit Type</b> PP Kirby Polar Pack</p>	<p><b>H</b></p> <p><b>Compressor Type</b> H Hermetic Reciprocating</p>	<p><b>100</b></p> <p><b>Nominal Capacity</b></p>	<p><b>M</b></p> <p><b>Usage Application</b> L Low Temperature M Medium Temperature H High Temperature</p>	<p><b>A1</b></p> <p><b>Power Supply &amp; Release Number</b> Odd Single Phase Supply Even Three Phase Supply</p>	<p><b>-2</b></p> <p><b>Condenser Type &amp; Variation</b> A Air Cooled</p>
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## KIRBY POLAR PACK CONDENSING UNITS

### R513A / R134a - MEDIUM TEMP

Stock No.	Model	Disp. (cc)	Amb. (°C)	Capacity (Watts)				Fan Qty.	RLA (A)	Receiver Volume (L)	Nom. HP
				R513A		R134a					
				-5°C	+5°C	-5°C	+5°C				
<b>220-240/1/50 - Single Phase</b>											
CK4222	PPH062MA1-1	60.5	32	4461	6581	4249	6268	2	14.4	8.2	3.0
			40	4016	5943	3825	5660				
<b>380-420/3/50 - Three Phase</b>											
CK4224	PPH068MA1-2	67.9	32	4880	6886	4648	6558	2	6.5/PH	8.2	3-1/4
			40	4452	6290	4240	5990				
CK4225	PPH075MA1-2	76.2	32	5145	7658	4900	7293	2	6.9/PH	8.2	3-3/4
			40	4394	6725	4185	6405				
CK4226	PPH089MA1-2	85.6	32	6095	8992	5805	8564	2	7.9/PH	8.2	4-1/4
			40	5303	7964	5050	7585				
CK4227	PPH100MA1-2	96.1	32	6632	10029	6316	9551	2	9.2/PH	8.2	4-3/4
			40	5864	8920	5585	8495				
CK4228	PPH113MA1-2	107.7	32	7713	11244	7346	10709	2	8.8/PH	8.2	5-1/2
			40	6778	9965	6455	9490				

Rating Conditions: ASHRAE-T Standard

**Notes:**

1. Units are configured for vertical airflow
2. Units are fully pre-wired and include the following: fitted crankcase heater, oil separator, liquid receiver, liquid line drier & sight glass, HP/LP control, fan speed control and Koil Kote condenser protection



## KIRBY POLAR PACK CONDENSING UNITS

### R449A / R404A - MEDIUM TEMP

Stock No.	Model	Disp. (cc)	Amb. (°C)	Capacity (Watts)				Fan Qty.	RLA (A)	Receiver Volume (L)	Nom. HP
				R449A		R404A					
				-5°C	+5°C	-5°C	+5°C				
<b>220-240/1/50 - Single Phase</b>											
CK4214	PPH027MA1-1	26.8	32	2406	3192	2703	3586	1	6.7	2.4	1-1/4
			40	2109	2795	2370	3140				
CK4215	PPH030MA1-1	30.5	32	2912	3972	3272	4463	1	6.5	2.4	1-1/2
			40	2537	3444	2850	3870				
CK4216	PPH040MA1-1	43.1	32	3588	4971	4032	5585	1	9.6	4.4	2.0
			40	3062	4259	3440	4785				
CK4218	PPH046MA1-1	48.4	32	4196	5982	4715	6721	1	11.6	4.4	2-1/4
			40	3702	5255	4160	5905				
CK4220	PPH052MA1-2	53.5	32	4613	6516	5183	7321	1	12.9	4.4	2-1/2
			40	4072	5687	4575	6390				
CK4222	PPH062MA1-1	60.5	32	5541	7550	6226	8483	2	14.4	8.2	3.0
			40	4739	6439	5325	7235				
<b>380-420/3/50 - Three Phase</b>											
CK4224	PPH068MA1-2	67.9	32	6042	8097	6789	9098	2	6.5/PH	8.2	3-1/4
			40	5202	6911	5845	7765				
CK4225	PPH075MA1-2	76.2	32	6761	9244	7597	10387	2	6.9/PH	8.2	3-3/4
			40	5843	7939	6565	8920				
CK4226	PPH089MA1-2	85.6	32	7771	10489	8731	11785	2	7.9/PH	8.2	4-1/4
			40	6688	8993	7515	10105				
CK4227	PPH100MA1-2	96.1	32	8550	11744	9607	13196	2	9.2/PH	8.2	4-3/4
			40	7383	10093	8295	11340				
CK4228	PPH113MA1-2	107.7	32	9809	13288	11021	14930	2	8.8/PH	8.2	5-1/2
			40	8442	11330	9485	12730				

Rating Conditions: ASHRAE-T Standard

**Notes:**

- Units are configured for vertical airflow
- Units are fully pre-wired and include the following: fitted crankcase heater, oil separator, liquid receiver, liquid line drier & sight glass, HP/LP control, fan speed control and Koil Kote condenser protection

## KIRBY POLAR PACK CONDENSING UNITS

### R449A / R404A - LOW TEMP

Stock No.	Model	Disp. (cc)	Amb. (°C)	Capacity (Watts)				Fan Qty.	RLA (A)	Receiver Volume (L)	Nom. HP
				R449A		R404A					
				-25°C	-15°C	-25°C	-15°C				
<b>220-240/1/50 - Single Phase</b>											
CK4253	PPH014LA1-1	30.5	32	1214	1879	1364	2111	1	4.2	2.4	1.0
			40	1015	1620	1140	1820				
CK4255	PPH024LA1-1	53.5	32	2102	3273	2362	3678	1	7.9	4.4	1-1/2
			40	1718	2839	1930	3190				
<b>380-420/3/50 - Three Phase</b>											
CK4256	PPH028LA1-2	67.9	32	2898	4300	3256	4831	1	3.4/PH	4.4	2-1/4
			40	2496	3751	2805	4215				
CK4257	PPH043LA1-2	96.1	32	3659	5832	4111	6553	2	3.3/PH	8.2	3-1/4
			40	3079	4997	3460	5615				
CK4258	PPH050LA1-2	107.7	32	4422	6826	4968	7670	2	4.5/PH	8.2	3-3/4
			40	3742	5896	4205	6625				
CK4259	PPH061LA1-2	135.8	32	5410	8194	6079	9207	2	6.1/PH	8.2	4.0
			40	4637	7133	5210	8015				

Rating Conditions: ASHRAE-T Standard

**Notes:**

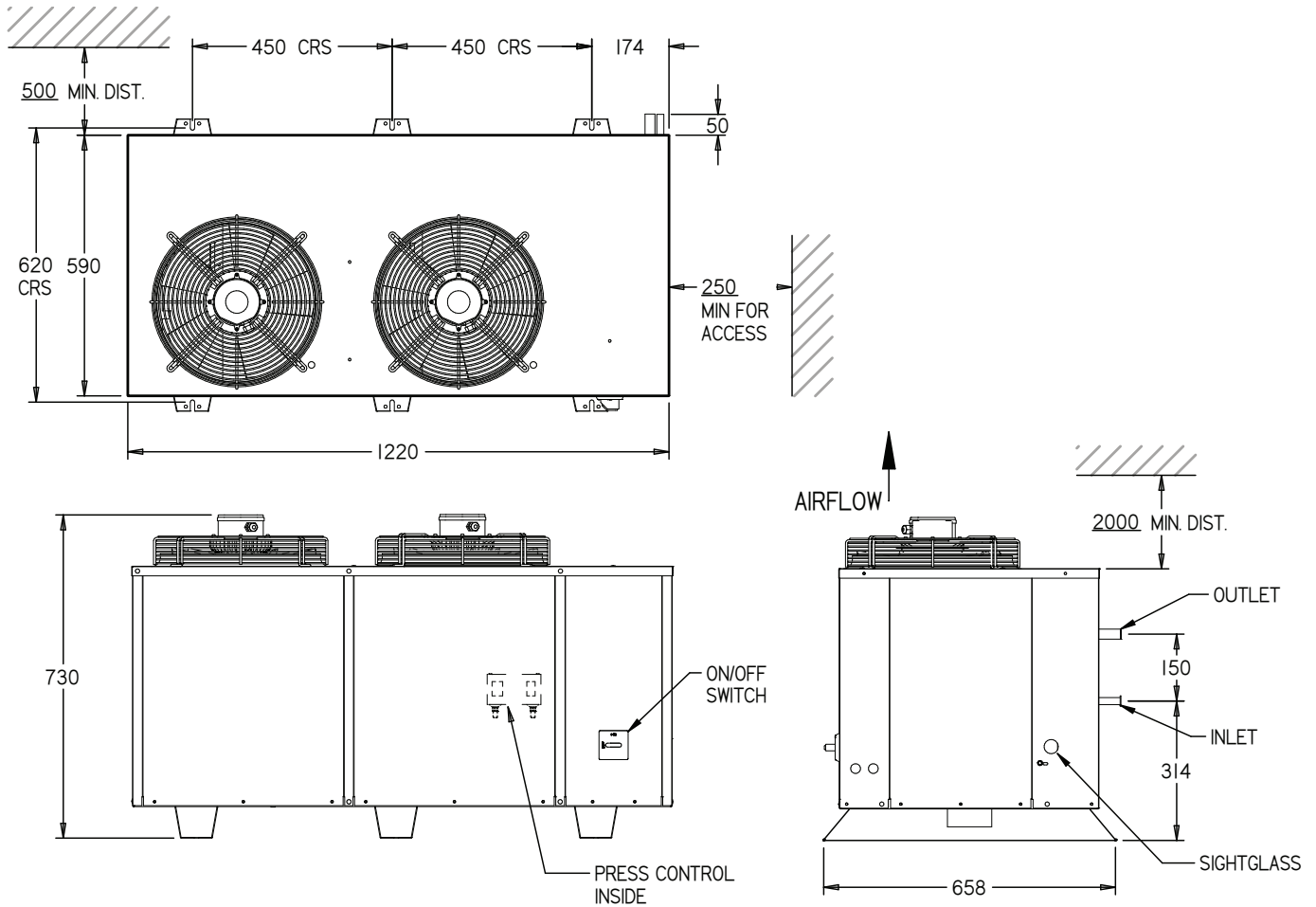
1. Units are configured for vertical airflow
2. Units are fully pre-wired and include the following: fitted crankcase heater, oil separator, liquid receiver, liquid line drier & sight glass, HP/LP control, fan speed control and Koil Kote condenser protection
3. Suction accumulator fitted to low temp units

## KIRBY POLAR PACK CONDENSING UNITS

### POLAR PACK TECHNICAL DATA

Stock No.	Cond. Unit Model	Compressor Model	Volts Phase	Fan Motor		Connections		Dimensions (mm)			Weight (Kg)
				Qty.	Motor Dia.	Suction	Liquid	W	D	H	
<b>R134a Medium Temperature</b>											
CK4222	PPH062MA1-1	MTZ36	240 V 1	2	300	3/4	5/8	1220	660	730	100
CK4224	PPH068MA1-2	MTZ40	400 V 3	2	300	7/8	5/8	1220	660	730	100
CK4225	PPH075MA1-2	MTZ45		2	300	7/8	5/8	1220	660	730	115
CK4226	PPH089MA1-2	MTZ51		2	350	7/8	5/8	1220	660	730	115
CK4227	PPH100MA1-2	MTZ57		2	350	7/8	5/8	1220	660	730	115
CK4228	PPH113MA1-2	MTZ65		2	350	7/8	5/8	1220	660	730	120
<b>R404A Medium Temperature</b>											
CK4214	PPH027MA1-1	WJ26MHG	240 V 1	1	300	1/2	3/8	750	660	730	70
CK4215	PPH030MA1-1	WJ31MHG		1	300	1/2	3/8	750	660	730	70
CK4216	PPH040MA1-1	AW43MHG		1	300	5/8	1/2	750	660	730	80
CK4218	PPH046MA1-1	AW48MHG		1	350	5/8	1/2	750	660	730	80
CK4220	PPH052MA1-2	AW54MHG		1	350	5/8	1/2	750	660	730	80
CK4222	PPH062MA1-1	MTZ36		2	300	3/4	5/8	1220	660	730	100
CK4224	PPH068MA1-2	MTZ40	400 V 3	2	300	7/8	5/8	1220	660	730	100
CK4225	PPH075MA1-2	MTZ45		2	300	7/8	5/8	1220	660	730	115
CK4226	PPH089MA1-2	MTZ51		2	350	7/8	5/8	1220	660	730	115
CK4227	PPH100MA1-2	MTZ57		2	350	7/8	5/8	1220	660	730	115
CK4228	PPH113MA1-2	MTZ65		2	350	7/8	5/8	1220	660	730	120
<b>R404A Low Temperature</b>											
CK4253	PPH014LA1-1	WJ31LZ	240 V 1	1	300	1/2	3/8	750	660	730	70
CK4255	PPH024LA1-1	AW54LZ		1	350	5/8	3/8	750	660	730	80
CK4256	PPH028LA1-2	NTZ068	400 V 3	1	350	5/8	3/8	750	660	730	75
CK4257	PPH043LA1-2	NTZ096		2	350	7/8	5/8	1220	660	730	110
CK4258	PPH050LA1-2	NTZ108		2	350	7/8	5/8	1220	660	730	115
CK4259	PPH061LA1-2	NTZ136		2	350	7/8	5/8	1220	660	730	115

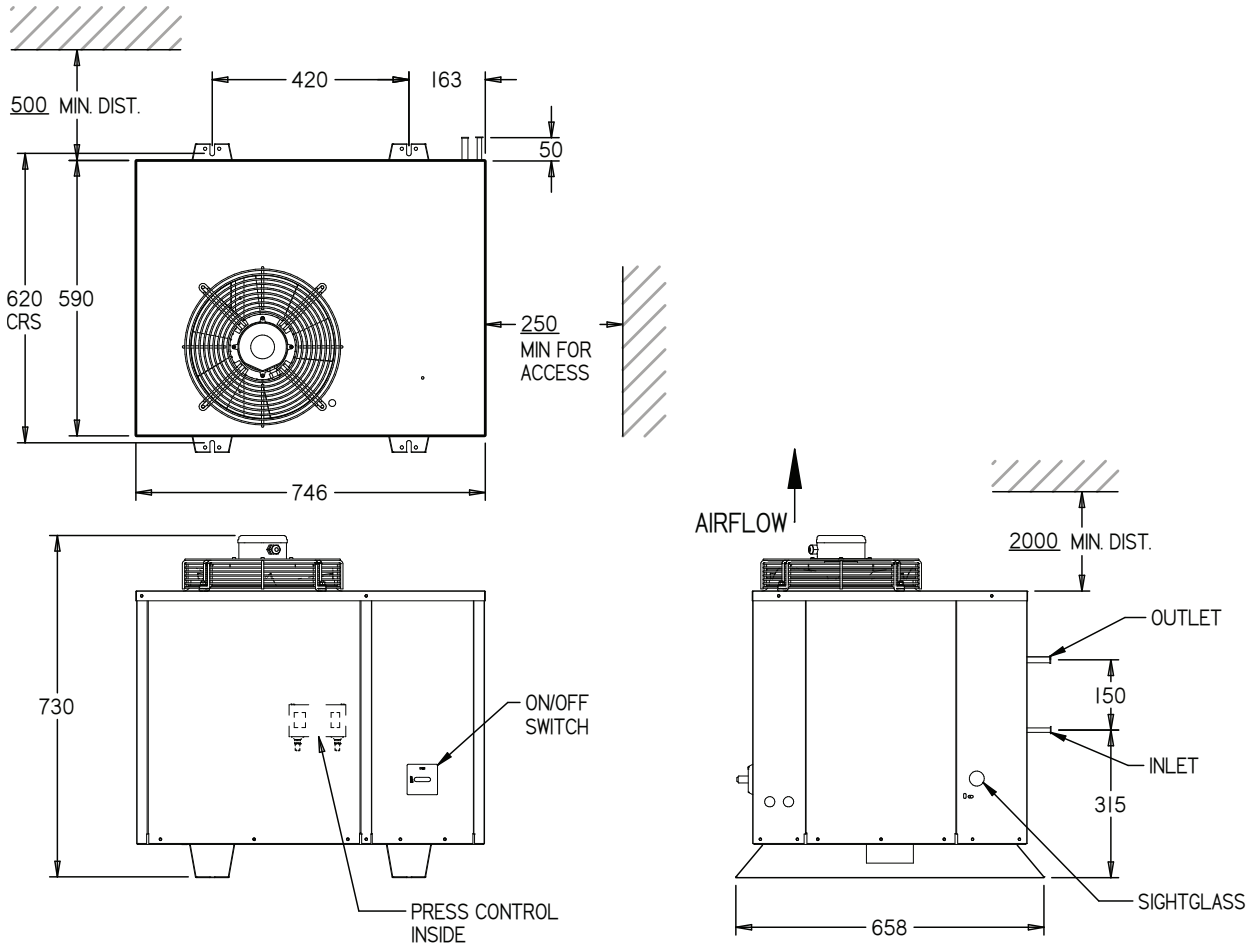
## KIRBY POLAR PACK CONDENSING UNITS



### Important Notes:

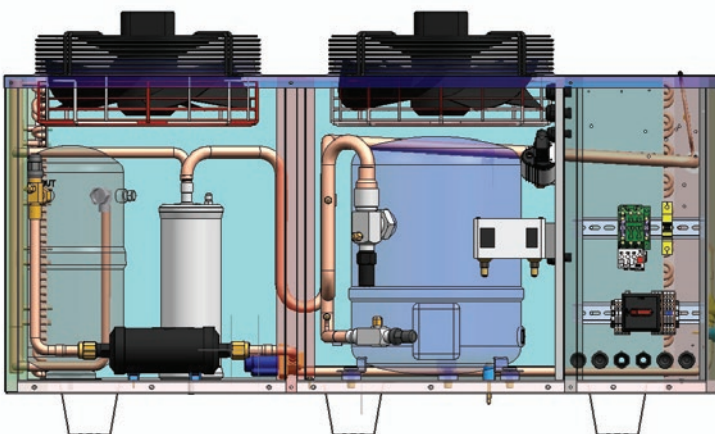
- \* It is particularly important for the units to allow sufficient unobstructed vertical air-discharge space above the unit to prevent warm air recirculation to the condenser.
- \*\* If the unit is to be located in close proximity to a wall or similar obstruction, the minimum distance from the coil face to the obstruction shall be complied with. The unit shall be mounted on a level horizontal plane surface.

## KIRBY POLAR PACK CONDENSING UNITS



### Important Notes:

- \* It is particularly important for the units to allow sufficient unobstructed vertical air-discharge space above the unit to prevent warm air recirculation to the condenser.
- \*\* If the unit is to be located in close proximity to a wall or similar obstruction, the minimum distance from the coil face to the obstruction shall be complied with. The unit shall be mounted on a level horizontal plane surface.



## Kirby® Titan Hermetic Condensing Units



### Overview and Introduction

A tough, compact and robust commercial condensing unit, the Kirby Titan Hermetic offers impressive performance and capacity within a small footprint. Pre-wired for convenient installation, the Titan thrives in harsh ambient conditions and under heavy loads. Being a fully enclosed system, it can be installed indoors or outside.

### Features and Benefits

The Titan Hermetic Condensing Units offer proven design attributes to be installation ready:

- Widest capacity range from 4.9kW to 28.6kW.
- Suitable for use with R513a/ R134a, R449a / R040a, plus many other refrigerants.
- All standard wiring and controls are factory installed and tested.
- Fan speed control fitted as standard (EC fans are available as an option).



### Kirby Titan Hermetic Condensing Units - Nomenclature

PP	S	152	MH	A1	-	4
PP = Polarpack						
<b>Compressor Type</b>				<b>Release Number &amp; Power Supply to Compressor</b>		
<b>Primary Refrigerant Capacity (kW) x 10</b> at -5°C SST R404A 30°C SCT 50Hz. MH/LM&LMH" Range eg. 100 = 10 (kW) x 10				Odd Number = Single Phase Even Number = Three Phase		
<b>Operating Range for Primary Refrigerant</b> MH = Medium / High, LM = Low / Medium LMH = Low / Medium / High				<b>Condenser Type &amp; Variant</b> A = Air Cooled Number = Sequential for Different Available Condensers		



## KIRBY TITAN HERMETIC CONDENSING UNITS

### R449A / R404A - MED / LOW TEMP

Stock No.	Model	Disp. (cc)	Amb. (°C)	Capacity (Watts)					Fan Qty.	RLA (A)	Receiver Volume (L)	Nom. HP
				R449A		R404A		R134a				
				-25°C	-5°C	-25°C	-5°C	-5°C				
<b>380-420/3/50 - Three Phase</b>												
CK4271	PPH131MHA1-2	21.0	32	4361	11237	4900	12626	8722	2	10.8/PH	14.5	6.0
			40	3542	9585	3980	10770	7570				
CK4272	PPH153MHA1-2	23.6	32	5292	13135	5946	14758	10010	2	13.4/PH	14.5	6.5
			40	4352	11276	4890	12670	8770				
CK4273	PPH170MHA1-2	29.8	32	6041	15019	6788	16875	10675	2	15.9/PH	14.5	8.5
			40	5055	13096	5680	14715	9435				
CK4274	PPH217MHA1-2	37.5	32	8272	19232	9294	21609	13405	2	17.9/PH	14.5	10.0
			40	6809	16327	7650	18345	11785				
CK4275	PPH251MHA1-2	42.1	32	9657	22294	10851	25049	16665	3	22.0/PH	24.5	12.0
			40	7970	19068	8955	21425	14865				
CK4276	PPH283MHA1-2	47.3	32	11257	25534	12648	28690	18456	3	24.2/PH	24.5	13.5
			40	9274	21725	10420	24410	16460				

Rating Conditions: ASHRAE-T Standard

**Notes:**

- Units are configured for vertical airflow
- Units are fully pre-wired and include the following: fitted crankcase heater, oil separator, liquid receiver, liquid line drier & sight glass, HP/LP control, fan speed control and Koil Kote condenser protection

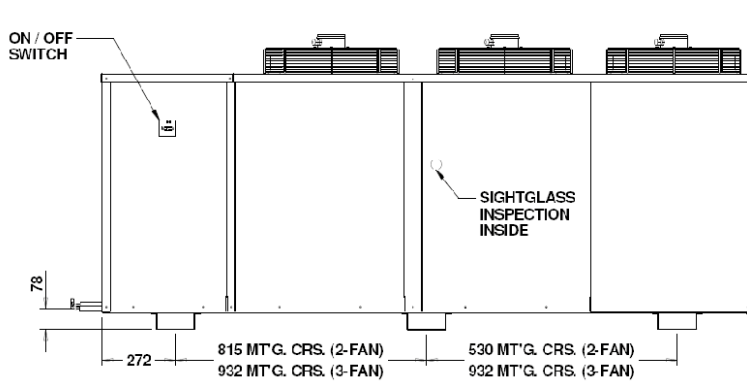
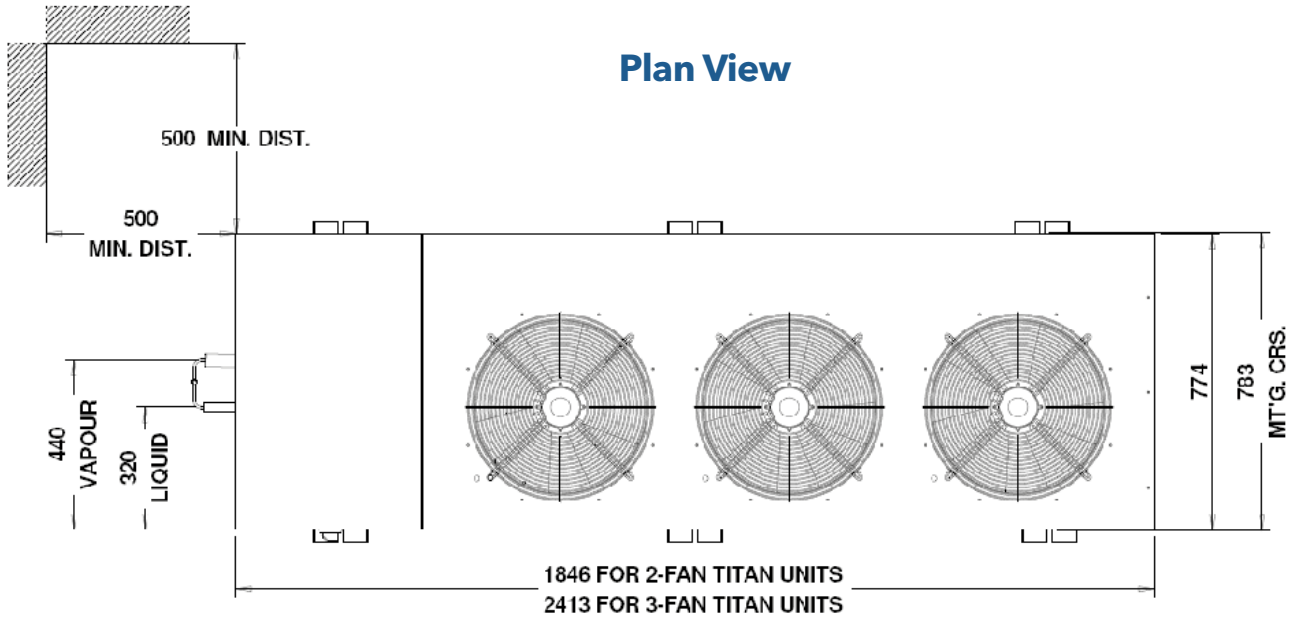
## KIRBY TITAN HERMETIC CONDENSING UNITS

### TITAN HERMETIC TECHNICAL DATA

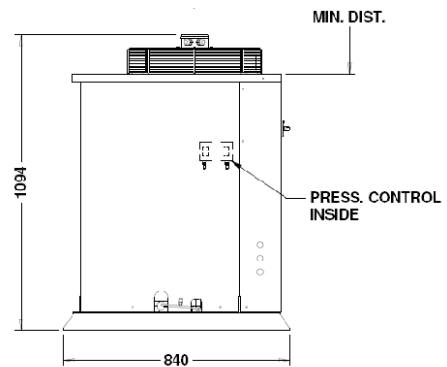
Stock No.	Cond. Unit Model	Compressor Model	Volts Phase	Fan Motor		Connections		Dimensions (mm)			Weight (Kg)
				Qty.	Motor Dia.	Suction	Liquid	W	D	H	
<b>R404A Medium / Low Temperature</b>											
CK4271	PPH131MHA1-2	MTZ73	400 V 1	2	350	1-3/8	5/8	1846	840	1060	225
CK4272	PPH153MHA1-2	MTZ81		2	450	1-3/8	5/8	1846	840	1094	229
CK4273	PPH170MHA1-2	MTZ100		2	450	1-3/8	5/8	1846	840	1094	235
CK4274	PPH217MHA1-2	MTZ125		2	450	1-3/8	5/8	1846	840	1094	255
CK4275	PPH251MHA1-2	MTZ144		3	450	1-3/8	7/8	2413	840	1094	320
CK4276	PPH283MHA1-2	MTZ160		3	450	1-3/8	7/8	3413	840	1094	335

## KIRBY TITAN HERMETIC CONDENSING UNITS

**Plan View**



**Side View**



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

## Tecumseh PAC<sup>3</sup> Condensing Units



### Overview and Introduction

The Tecumseh Packaged PAC<sup>3</sup> Condensing Unit is designed with both reciprocating and scroll compressor technology with wide range offer. The PAC<sup>3</sup> is best in sustainability, flexibility and serviceability.

### Features and Benefits

- Reciprocating and scroll compressor offering.
- Compact and optimised for space constraints.
- Wide application range to fit extensive demands.
- Units are fully pre-wired and include: fitted crankcase heater, liquid receiver, liquid line drier & sight glass and HP/LP control.
- Suction accumulator - all models.
- Oil separator - low temperature models.



### R449A / R404A - MEDIUM TEMP

Stock No.	Model	Disp. (cc)	Amb.(°C)	Capacity (Watts)				Fan Qty.	RLA (A)	Receiver Volume (L)	Nom. HP
				R449A		R404A					
				-5°C	+5°C	-5°C	+5°C				
<b>380-420/3/50 - Three Phase</b>											
C9781	PAC4572Z	17.1	32	11297	15940	12552	16433	2	9.4	9.5	6.0
			40	9934	-	11038	-				
C9782	PAC4584Z	18.8	32	12671	18227	14079	18791	2	10.0	9.5	7.0
			40	11322	16260	12580	16763				
C9783	PAC4596Z	21.4	32	14026	20136	15584	20759	2	12.1	9.5	8.0
			40	12173	-	13525	-				
C9784	PAC4611Z	25.0	32	16340	23120	18156	23835	2	13.6	9.5	9.0
			40	14283	20236	15870	20862				
C9785	PAC4612Z	29.1	32	18502	25538	20558	26328	2	15.5	9.5	10.0
			40	16210	22480	18011	23175				

Rating Conditions: EN13215 at stated ambient, 20°C return gas temp & 3K Subcooling. Suction accumulator.

**Notes:**

1. Units are configured for horizontal airflow
2. Units are fully pre-wired and include the following: fitted crankcase heater, liquid receiver, liquid line drier & sight glass and HP/LP control

## TECUMSEH PAC<sup>3</sup> CONDENSING UNITS

### R449A / R404A - MEDIUM TEMP

Stock No.	Model	Disp. (cc)	Amb.(°C)	Capacity (Watts)				Fan Qty.	RLA (A)	Receiver Volume (L)	Nom. HP
				R449A		R404A					
				-5°C	+5°C	-5°C	+5°C				
<b>220-240/1/50 - Single Phase</b>											
C9719	PACS9510Z	18.3	32	1817	2681	2019	2764	1	5.7	2.3	0.8
			40	1555	2290	1728	2361				
C9720	PACS9513Z	24.2	32	2255	3363	2506	3467	1	7.0	2.3	1.1
			40	1887	2826	2097	2913				
C9721	PACS4517Z	25.9	32	2450	3561	2740	3723	1	8.1	3.9	1.4
			40	2153	3149	2350	3194				
C9722	PACS4519Z	34.5	32	3066	4448	3339	4458	1	10.5	3.9	1.6
			40	2689	3931	2882	3841				
C9723	PACS4524Z	43.5	32	3686	5553	4144	5763	1	11.8	3.9	2.0
			40	3181	4867	3498	4914				
C9724	PACS4531Z	56.6	32	4718	6882	5185	7062	1	15.2	3.9	2.6
			40	4120	6179	4446	6097				
<b>380-420/3/50 - Three Phase</b>											
C9725	PAC4540Z	74.2	32	5931	8531	6654	8799	1	8.7	3.9	3.3
			40	5252	7631	5761	7641				
C9726	PAC4546Z	90.2	32	6690	10165	7527	10530	1	9.6	3.9	3.8
			40	5679	8838	6272	8891				
C9727	PAC4553Z	100.7	32	7786	11725	8769	12206	1	10.5	3.9	4.4
			40	6696	10290	7424	10440				
C9728	PAC4561Z	112.5	32	8363	12359	9325	12688	2	11.8	9.5	5.0
			40	7229	10915	7913	10887				
C9729	PAC4568Z	124.4	32	10069	14944	11206	15316	2	12.9	9.5	5.7
			40	8862	13405	9671	13341				
C9730	PAC4581Z	145.0	32	11436	16454	13351	17888	2	15.3	9.5	6.8
			40	10046	-	11531	15507				

Rating Conditions: EN13215 at stated ambient, 20°C return gas temp & 3K Subcooling. Suction accumulator.

**Notes:**

1. Units are configured for horizontal airflow
2. Units are fully pre-wired and include the following: fitted crankcase heater, liquid receiver, liquid line drier & sightglass and HP/LP control

## TECUMSEH PAC<sup>3</sup> CONDENSING UNITS

### R449A / R404A - LOW TEMP

Stock No.	Model	Disp. (cc)	Amb. (°C)	Capacity (Watts)				Fan Qty.	RLA (A)	Receiver Volume (L)	Nom. HP
				R449A		R404A					
				-25°C	-20°C	-25°C	-20°C				
<b>220-240/1/50 - Single Phase</b>											
C9751	PACS2446Z	26.2	32	949	1261	1192	1483	1	4.3	2.3	1.2
			40	810	1076	1017	1266				
C9752	PACS2464Z	34.5	32	1263	1668	1587	1962	1	6.0	2.3	1.6
			40	1078	1430	1354	1682				
C9753	PACS2480Z	53.2	32	1798	2330	2262	2807	1	7.7	3.9	2.0
			40	1533	2028	1924	2412				
<b>380-420/3/50 - Three Phase</b>											
C9754	PAC2511Z	74.2	32	2394	3128	2942	3680	1	4.7	3.9	2.8
			40	2038	2720	2489	3158				
C9755	PAC2513Z	100.7	32	2920	3948	3209	4065	1	5.0	3.9	3.3
			40	2368	3288	2627	3384				
C9756	PAC2516Z	112.5	32	3427	4539	4091	5179	1	5.6	3.9	4.0
			40	2803	3786	3317	4268				
C9757	PAC2522Z	134.8	32	4322	5633	5160	6427	1	6.5	3.9	5.5
			40	3669	4859	4342	5476				
C9758	PAC2525Z	145.0	32	4707	6073	5557	6845	1	7.1	3.9	6.3
			40	4027	5277	4583	5728				

Rating Conditions: EN13215 at stated ambient, 20°C return gas temp & 3K Subcooling. Suction accumulator and oil separator.

**Notes:**

- 1.Units are configured for horizontal airflow
- 2.Units are fully pre-wired and include the following: fitted crankcase heater, liquid receiver, liquid line drier & sight glass and HP/LP control.

## TECUMSEH PAC<sup>3</sup> CONDENSING UNITS

### PAC<sup>3</sup> TECHNICAL DATA

#### MEDIUM TEMP - SCROLL

Stock No.	Cond. Unit Model	Compressor Model	Volts Phase	Fan Motor		Connections		Dimensions (mm)			Weight (Kg)
				Qty.	Motor Dia.	Suction	Liquid	W	D	H	
<b>R404A Medium Temperature</b>											
C9781	PAC4572Z	4572Z	400 V 3	2	450	7/8	1/2	913	416	1149	112
C9782	PAC4584Z	4584Z		2	450	7/8	1/2	913	416	1149	119
C9783	PAC4596Z	4596Z		2	500	1-1/8	1/2	913	416	1271	140
C9784	PAC4611Z	4611Z		2	500	1-1/8	1/2	913	416	1271	140
C9785	PAC4612Z	4612Z		2	500	1-1/8	1/2	913	416	1271	141

#### MEDIUM TEMP - HERMETIC

Stock No.	Cond. Unit Model	Compressor Model	Volts Phase	Fan Motor		Connections		Dimensions (mm)			Weight (Kg)
				Qty.	Motor Dia.	Suction	Liquid	W	D	H	
<b>R404A Medium Temperature</b>											
C9719	PACS9510Z	CAJ6810Z	240 V 1	1	350	5/8	3/8	913	416	532	58
C9720	PACS9513Z	CAJ9513Z		1	350	5/8	3/8	913	416	532	58
C9721	PACS4517Z	CAJ4517Z		1	450	5/8	3/8	913	416	633	63
C9722	PACS4519Z	CAJ4519Z		1	450	5/8	3/8	913	416	633	63
C9723	PACS4524Z	FH4524Z		1	450	5/8	3/8	913	416	633	80
C9724	PACS4531Z	FH4531Z	1	450	5/8	3/8	913	416	633	81	
C9725	PAC4540Z	TFH4540Z	400 V 3	1	500	7/8	1/2	913	416	792	89
C9726	PAC4546Z	TAG4546Z		1	500	7/8	1/2	913	416	792	96
C9727	PAC4553Z	TAG4553Z		1	500	7/8	1/2	913	416	792	98
C9728	PAC4561Z	TAG4561Z		2	450	7/8	1/2	913	416	1149	125
C9729	PAC4568Z	TAG4568Z		2	450	7/8	1/2	913	416	1149	126
C9730	PAC4581Z	TAG4581Z	2	450	7/8	1/2	913	416	1149	127	

#### LOW TEMP - HERMETIC

Stock No.	Cond. Unit Model	Compressor Model	Volts Phase	Fan Motor		Connections		Dimensions (mm)			Weight (Kg)
				Qty.	Motor Dia.	Suction	Liquid	W	D	H	
<b>R404A Low Temperature</b>											
C9751	PACS2446Z	CAJ2446Z	240 V 1	1	350	5/8	3/8	913	416	532	57
C9752	PACS2464Z	CAJ2464Z		1	350	5/8	3/8	913	416	532	58
C9753	PACS2480Z	FH2480Z		1	450	5/8	3/8	913	416	638	78
C9754	PAC2511Z	FH2511Z	400 V 3	1	450	5/8	3/8	913	416	638	78
C9755	PAC2513Z	TAG2513Z		1	500	7/8	1/2	913	416	792	96
C9756	PAC2516Z	TAG2516Z		1	500	7/8	1/2	913	416	792	97
C9757	PAC2522Z	TAG2522Z		1	500	7/8	1/2	913	416	792	99
C9758	PAC2525Z	TAG2525Z		1	500	7/8	1/2	913	416	792	99



## Kirby Container Pack Condensing Units




### Overview and Introduction

The Container Pack single phase condensing units are rated for operation up to 45°C ambient. With improved performance due to the inclusion of large condensers, they deliver high output and efficiency. Additionally because they're from Kirby, they're robust and reliable - guaranteed.

### Features and Benefits

- Incorporating single phase Maneurop compressors delivering reliability and proven performance.
- Fully wired with isolator, contactors and circuit breaker – no temperature controller.
- High ambient vertical discharge condenser optimises efficiency and airflow for continuous operation at temperatures up to 45°C ambient temperatures.
- Durable painted galvabond bases maximise service life.
- Single unit offering both Medium and Low temperature capabilities.
- Premium quality inclusions and controls.
- Units include liquid line dryer, sight glass and solenoid valve.
- HP /LP control.
- Suction Accumulator & Oil Separator.
- Suitable for R134A, R404A, R449A, R407F.

### Suggested Evaporator

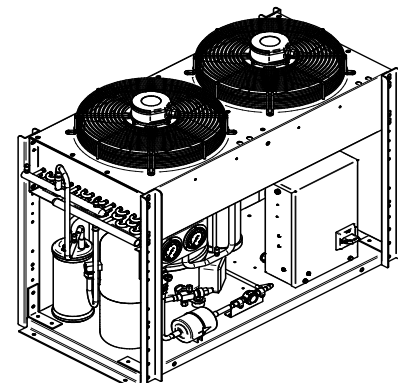
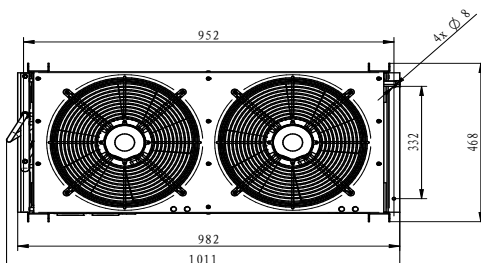
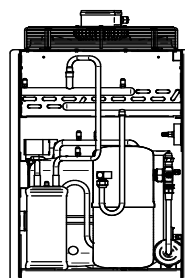
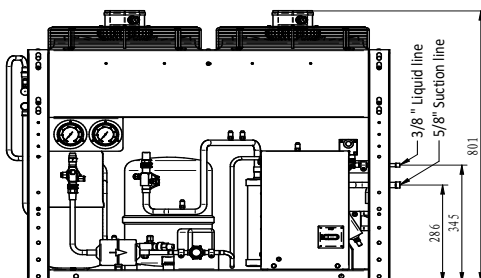
- Low Temp - KLT036W & Med Temp KMT036W.



### PERFORMANCE DATA

Ambient	SST	
	-5	-25
25	6459	3661
30	5948	3334
35	5445	3025
40	4946	2734

Watts on R404a, inherent subcooling, 20°C return gas temp.



## Bitzer Ecolite Air-Cooled Condensing Units



### Overview and introduction

The ECOLITE air-cooled condensing units for commercial refrigeration perfectly complement BITZER's proven standard LHE and premium ECOSTAR series. It is the ideal solution for cost-conscious customers who are looking for a highly flexible, sustainable and easy to install product made of approved BITZER components.

Highly efficient BITZER ECOLINE compressors with capacity control combined with system-optimized condensers and speed-controlled fans make all seven unit models suitable for low and medium temperature applications as standard.

Comprehensive equipment and a smart BITZER controller form a comfortable plug and play concept allowing simple implementation in the cooling system and constant monitoring of operating parameters and settings.

The ECOLITE series is available for all common refrigerants, including A2L flammable refrigerants R134a, R450A, R513A, R1234yf, R1234ze(E), R404A, R448A, R449A, R407A/C/F, R454C, R455A. It fully complies with the EU Ecodesign Product Regulation 2015/1095.

Due to its versatility and future-proof design, this series is a state of the art, affordable line of condensing units featuring the latest BITZER technology.



### Features and Benefits

- Horizontal Air Flow.
- HP/LP Control.
- Oil Separator.
- Liquid line dryer & sight glass.
- CRII capacity modulation and start unloader function.
- Pre-wired to include optimised condenser fan speed control (high side pressure reference).

### Comprehensive Equipment

- Liquid receiver.
- Sight glass.
- Filter dryer.
- High and low pressure switches and transmitters.
- Oil heater.
- Suction, discharge and ambient temperature sensors.
- Simple commissioning through Plug and Play concept.
- Safe for A2L refrigerants.

### Performance Data

Based on 20°C suction gas temperature with 1K liquid subcooling. Cooling capacity and COP at 32°C ambient temperature. SEPR according to EN 13215.

## BITZER ECOLITE AIR-COOLED CONDENSING UNITS

### MEDIUM / LOW TEMP

Stock No.	Model	Disp. (m3/hr)	Amb. (°C)	Capacity (Watts)					Fan Qty.	RLA (A)	Receiver Volume (L)	Nom. HP
				R449A		R404A		R513A				
				-25°C	-5°C	-25°C	-5°C	-5°C				
<b>380-420/3/50 - Three Phase</b>												
BZCU28-200	LHL3E/2DES-2Y	13.4	32	2960	7490	3740	7930	5610	1	8.1	7.8	2.0
			40	2510	6560	3130	6750	4950				
BZCU28-204	LHL5E/4FES-3Y	18.1	32	4560	10990	5340	11620	7590	2	10.1	15.0	3.0
			40	3710	9670	4590	9960	6670				
BZCU28-203	LHL5E/4EES-4Y	22.7	32	5290	13230	6610	14020	9560	2	12.8	15.0	4.0
			40	4520	11620	5650	12010	8460				
BZCU28-202	LHL5E/4DES-5Y	26.8	32	5920	14700	7500	15670	10960	2	15.1	15.0	5.0
			40	5040	-	6410	13450	9660				
BZCU28-201	LHL5E/4CES-6Y	32.5	32	7410	17680	8940	18400	13080	2	18.3	15.0	6.0
			40	6370	-	7610	15780	11550				

Rating Conditions: EN13215 at stated ambient, 20°C return gas temp & 3K Subcooling

#### Notes:

1. Units are configured for horizontal airflow.

2. Units include:

- Liquid receiver
- HP & LP control
- CRIL capacity control (10% to 100% for LHL5E)

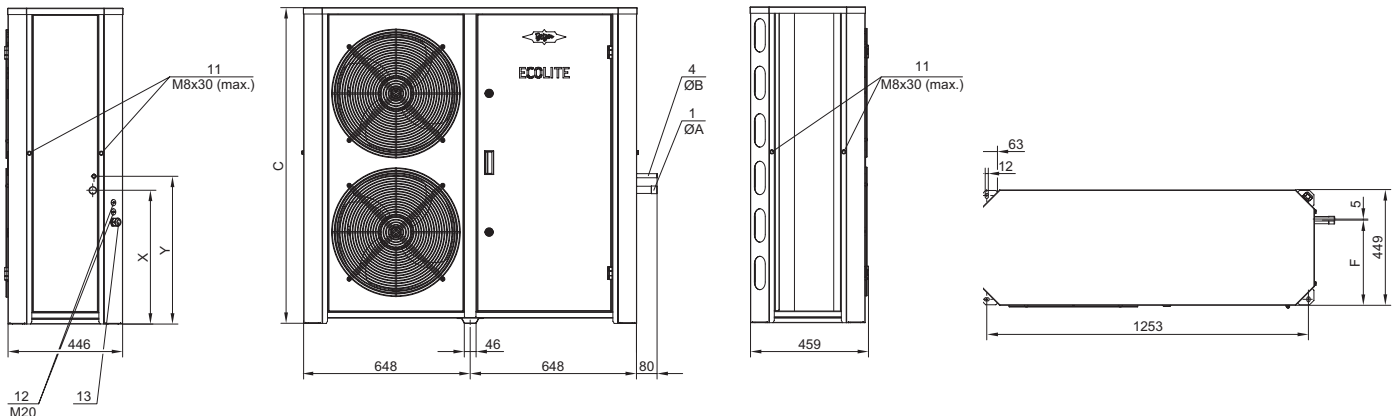
- Crankcase heater
- Oil separator
- Liquid line drier & sightglass
- Fan speed control
- Coolroom temperature sensor

#### Optional equipment:

Interface converter for connection to BEST SOFTWARE

## BITZER ECOLITE TECHNICAL DATA

Stock No.	Cond. Unit Model	Compressor Model	Volts Phase	Fan Motor		Connections		Dimensions (mm)			Weight (Kg)
				Qty.	Motor Dia.	Suction	Liquid	W	D	H	
<b>Medium / Low Temperature</b>											
BZCU28-200	LHL3E/2DES-2Y	2DES-2Y	400V 3	1	450	7/8	1/2	1300	450	830	157
BZCU28-204	LHL5E/4FES-3Y	4FES-3Y		2	450	1-1/8	5/8	1300	450	1230	210
BZCU28-203	LHL5E/4EES-4Y	4EES-4Y		2	450	1-1/8	5/8	1300	450	1230	214
BZCU28-202	LHL5E/4DES-5Y	4DES-5Y		2	450	1-1/8	5/8	1300	450	1230	216
BZCU28-201	LHL5E/4CES-6Y	4CES-6Y		2	450	1-1/8	5/8	1300	450	1230	218



## Kirby® KRC Remote Condensers



### Overview and Introduction

The Kirby® KRC Remote Condenser range includes the latest refrigeration technologies for upgraded performance such as 9000 series fin coils and pre coated fin for optimal corrosion protection. The units can be installed vertically or horizontally for maximum flexibility.

Standard inclusions include powder coated panels and quality external rotor motor fans for long life and serviceability. For variable capacity and noise sensitive applications, Kirby offer "easy to adapt" solutions.



### Market Segments

- Retail
- Convenience
- Cold Storage
- Hospitality
- Primary Producers
- Industrial
- HVAC

### Features and Benefits

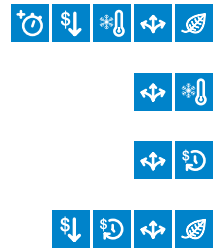
The Kirby® KRC Remote Condenser offers:

- Optimised air flow and coil design for enhanced heat transfer performance and high pressure applications.
- 240V - 1 Phase fan motor assemblies.
- Kirby Blue Koted aluminium fins for optimal UV and corrosion resistance.
- Header clearance holes to ensure the end/divider plates remain a leak free zone and positive air seal between all fans.
- A supporting spare parts range accessible 24/7 through the Realcold wholesale network.

### Optional Enhancements

Kirby® KRC Remote Condensers can be configured with the following options:

- EC fan with Orbus™ fan speed control
- 3 Phase fan assemblies - 500mm and 630mm dia
- Fan motors pre-wired to terminal junction box
- Special Applications on request - Sub Cooling Circuit, Multiple Circuits, Dry Cooler, Oil Cooler, Fluid Cooler.



KEY CHART			
	Extended life		Sustainable solution
	Installation cost/time saving		Improved performance
	Improved efficiency		Flexible application

## KIRBY KRC REMOTE CONDENSERS

### R449A / R404A / R134a

Stock No.	Model	THR (watts @ 1 KTD)			Fan Qty / Dia.	Air Vol. (L/sec)	Dimension (mm)			Weight (Kg)
		R449A	R404A	R134a			L	W	H	
<b>Single Coil Model - 350mm fan - 4 Pole Motor - 220-240/1/50</b>										
KRC80	KRC80-4PH	715	803	746	2 x 350	1260	951	470	705	29
KRC107	KRC107-4PH	958	1076	1001	2 x 350	1295	951	570	705	34
KRC134	KRC134-4PH	1191	1338	1245	2 x 350	1210	951	670	705	46
<b>Single Coil Model - 500mm fan - 4 Pole Motor - 220-240/1/50</b>										
KRC164	KRC164-4PH	1455	1635	1520	1 x 500	1530	951	670	745	51
KRC213	KRC213-4PH	1900	2135	1986	2 x 500	3290	1262	849	1020	68
KRC317	KRC317-4PH	2822	3171	2949	2 x 500	3234	1262	954	1020	93
<b>Single Coil Model - 500mm fan - 6 Pole Motor - 220-240/1/50</b>										
KRC-137	KRC-137-6PH	1216	1366	1271	1 x 500	1095	951	670	745	51
KRC181	KRC181-6PH	1608	1807	1681	2 x 500	2435	1262	849	1020	68
KRC254	KRC254-6PH	2264	2544	2366	2 x 500	2170	1262	954	1020	93
<b>Single Coil Model - 630mm fan - 6 Pole Motor - 220-240/1/50</b>										
KRC389	KRC389-6PH	3458	3885	3613	2 x 630	3745	1675	1004	1050	129
KRC457	KRC457-6PH	4069	4572	4252	3 x 630	6475	2408	1004	1050	158
KRC574	KRC574-6PH	5107	5738	5337	3 x 630	5620	2408	1004	1050	186
KRC693	KRC693-6PH	6165	6927	6442	4 x 630	8755	3205	1107	1050	208
KRC861	KRC861-6PH	7664	8611	8008	4 x 630	7755	3205	1107	1050	263
<b>Twin Coil Model - 630mm fan - 6 Pole Motor - 220-240/1/50</b>										
KRC776	KRC776-6PH	6915	7770	7226	4 x 630	7490	1581	1929	1145	271
KRC914	KRC914-6PH	8137	9143	8503	6 x 630	12950	2316	1929	1145	309
KRC1148	KRC1148-6PH	10215	11477	10674	6 x 630	11240	2316	1929	1145	365
KRC1386	KRC1386-6PH	12089	13583	12883	8 x 630	17510	3091	2135	1145	501
KRC1722	KRC1722-6PH	15327	17221	16016	8 x 630	15510	3091	2135	1145	612

**Notes:**

- Twin coil models are delivered Ex Australia
- Standard configuration is vertical airflow
- Maximum operating pressure 3650 kPa is suitable for R410A
- 3 phase fan option available
- EC fan option available



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