KIRBY **NULLARBOR**
PEAK SERIES

DESIGNED FOR
LOW GWP
REFRIGERANTS



KIRBY® NULLARBOR PEAK SERIES

Condensing Units

Engineered on a Rich Heritage
for Outstanding Performance



Exclusively distributed by
KIRBY
A BEIJER REF Company

KIRBY® NULLARBOR PEAK SERIES
Condensing Units

Introduction

Developed on the back of the highly successful Kirby® Nullarbor and Kirby® Commander platforms, the new Kirby® Nullarbor Peak Series condensing unit range has been engineered specifically to offer superior performance across the harshest conditions of the Australian continent.

With unfailing operation up to 45°C ambient, they're robust and reliable – guaranteed.

Features & Benefits

The Kirby® Nullarbor Peak Series condensing units offer:

- Kulthorn Kirby KA Series hermetic reciprocating compressors complete with thermal overload protection, crankcase heater and compressor oil sightglass.
- Premium quality external rotor fan motors with control circuit break overload protection, deliver reliable and efficient operation across a long service life.
- Full wiring for compressor (including contactor and overload), fan(s) and auto-auto ('universal') dual pressure control for trouble-free commissioning.
- Easy to clean powder coated sheet metal base and condenser casing, providing an aesthetically pleasing appearance.
- Suction and liquid line connection points conveniently grouped and located together for stress-free access.
- All electrics housed in IP54 rated metal j-box, ensuring trustworthy and safe operation.
- Liquid receiver, liquid line with drier and sightglass, and high efficiency internal float oil separator standard across all models.
- Suction accumulator standard across all low temperature models.

Optional Protective Covers

Powder coated with an appealing and minimalistic gunmetal finish, optional protective cover kits are designed to provide some additional protection and security against mechanical damage from external sources.

Supplied flat packed and able to be attached directly to the base of the unit, these kits are available for every unit within the Kirby® Nullarbor Peak Series range.

Kirby® Nullarbor Peak Series Condensing Units – Nomenclature

KN	110	MH	A1	2

Unit Type
KN Kirby® Nullarbor

Nominal Capacity

Usage Application
MH Medium/High Temperature
L Low Temperature

Condenser Type & Variation
A Air Cooled

Power Supply & Release Number
Odd Single Phase Supply
Even Three Phase Supply

NULLARBOR PEAK CONDENSING UNITS
R448A Medium Temperature Performance Data

PRODUCT NUMBER	DISPLACE-MENT (cc/rev)	AMBIENT TEMP. (°C)	CAPACITY WATTS @ SST (°C)												RECEIVER CAPACITY (kg)
			LT						MT			HT			
			-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	
KULTHORN KIRBY KA SERIES MHZ HERMETIC RECIPROCATING COMPRESSORS															
KN070MHA1-2	70	35	–	–	–	–	1,770	2,590	3,540	4,620	5,870	7,360	9,180	–	6.2
		45	–	–	–	–	1,230	1,970	2,830	3,820	4,970	6,350	8,020	–	
KN080MHA1-2	80	35	–	–	–	–	2,590	3,420	4,470	5,700	7,140	8,670	10,320	–	6.2
		45	–	–	–	–	–	2,750	3,610	4,680	5,920	7,310	8,790	–	
KN095MHA1-2	90	35	–	–	–	–	2,930	4,040	5,370	6,860	8,520	10,220	12,100	–	8.3
		45	–	–	–	–	–	3,260	4,390	5,700	7,140	8,690	10,430	–	
KN110MHA1-2	100	35	–	–	–	–	3,480	4,740	6,250	7,930	9,800	11,720	13,830	–	8.3
		45	–	–	–	–	–	3,880	5,160	6,640	8,260	10,020	11,980	–	
KN127MHA1-2	115	35	–	–	–	–	4,210	5,720	7,440	9,390	11,420	13,640	16,000	–	8.3
		45	–	–	–	–	–	4,610	6,150	7,880	9,760	11,850	14,020	–	

NULLARBOR PEAK CONDENSING UNITS
R513A Medium Temperature Performance Data

PRODUCT NUMBER	DISPLACE-MENT (cc/rev)	AMBIENT TEMP. (°C)	CAPACITY WATTS @ SST (°C)												RECEIVER CAPACITY (kg)
			LT						MT			HT			
			-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	
KULTHORN KIRBY KA SERIES MHZ HERMETIC RECIPROCATING COMPRESSORS															
KN070MHA1-2	70	35	–	–	–	–	–	–	2,250	2,980	3,830	4,820	6,000	7,410	6.0
		45	–	–	–	–	–	–	–	2,350	3,080	3,950	5,020	6,310	
KN080MHA1-2	80	35	–	–	–	–	–	1,970	2,640	3,440	4,400	5,500	6,740	8,100	6.0
		45	–	–	–	–	–	–	–	2,800	3,620	4,580	5,670	6,840	
KN095MHA1-2	90	35	–	–	–	–	–	2,320	3,200	4,180	5,300	6,560	7,950	9,510	7.9
		45	–	–	–	–	–	–	–	3,400	4,360	5,440	6,690	8,140	
KN110MHA1-2	100	35	–	–	–	–	–	2,950	3,870	4,920	6,140	7,560	9,210	11,100	7.9
		45	–	–	–	–	–	–	–	4,010	5,160	6,500	8,010	9,690	
KN127MHA1-2	115	35	–	–	–	–	–	3,200	4,210	5,380	6,730	8,240	9,920	11,790	7.9
		45	–	–	–	–	–	–	–	4,470	5,650	6,980	8,480	10,190	

For the latest refrigerant performance data, equipment selections and application support, use Kirby Select™ or the Quick Select Tools available through the Kirby smart@ccess customer portal. These tools provide the most current selection information across a wide range of traditional and lower-GWP refrigerants.

NULLARBOR PEAK CONDENSING UNITS

R448A Low Temperature Performance Data

PRODUCT NUMBER	DISPLACE-MENT (cc/rev)	AMBIENT TEMP. (°C)	CAPACITY WATTS @ SST (°C)												RECEIVER CAPACITY (kg)
			LT						MT			HT			
			-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	
KULTHORN KIRBY KA SERIES LZ HERMETIC RECIPROCATING COMPRESSORS															
KN030LA1-2	70	35	–	–	830	1,480	2,230	3,010	3,910	4,860	–	–	–	–	6.2
		45	–	–	–	1,040	1,750	2,500	3,330	4,220	–	–	–	–	
KN034LA1-2	80	35	–	–	1,320	1,950	2,730	3,560	4,580	5,690	–	–	–	–	6.2
		45	–	–	–	1,340	2,080	2,870	3,770	4,730	–	–	–	–	
KN040LA1-2	90	35	–	–	1,700	2,470	3,410	4,410	5,620	6,940	–	–	–	–	6.2
		45	–	–	–	1,780	2,640	3,560	4,630	5,780	–	–	–	–	
KN045LA1-2	100	35	–	–	1,890	2,700	3,760	4,890	6,250	7,700	–	–	–	–	6.2
		45	–	–	–	1,990	3,000	4,040	5,200	6,420	–	–	–	–	

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NULLARBOR PEAK CONDENSING UNITS
Technical Data

PRODUCT NUMBER	COMPRESSOR MODEL	CONDENSER FAN DATA			ELECTRICAL DATA				CONNECTIONS (MM)		SOUND POWER DB(A)
		NO. OF FANS	DIAMETER (mm)	AIRFLOW (l/s)	MCC	LRA	RLA	UNIT POWER	LIQUID	SUCTION	
KULTHORN KIRBY KA SERIES MHZ HERMETIC RECIPROCATING COMPRESSORS											
KN070MHA1-2	KA70MHZ-4C	1	450	1,050	12.70	53.20	8.30	3,050	12.70	22.22	79.5
KN080MHA1-2	KA80MHZ-4C	2	450	1,010	12.06	52.56	7.66	3,330	12.70	22.22	80.5
KN095MHA1-2	KA90MHZ-4C	2	450	2,130	19.40	79.40	11.39	3,855	12.70	28.57	80.6
KN110MHA1-2	KA100MHZ-4C	2	450	1,940	20.40	79.40	12.31	4,840	12.70	28.57	80.8
KN127MHA1-2	KA115MHZ-4C	2	450	2,190	20.90	79.40	13.40	5,600	12.70	28.57	80.6
KULTHORN KIRBY KA SERIES LZ HERMETIC RECIPROCATING COMPRESSORS											
KN030LA1-2	KA70LZ-4C	1	450	1,180	8.05	47.20	5.60	2,185	12.70	22.22	81.0
KN034LA1-2	KA80LZ-4C	1	450	1,180	8.47	47.20	6.00	2,590	12.70	22.22	82.0
KN040LA1-2	KA90LZ-4C	1	450	1,120	9.61	47.20	6.30	2,895	12.70	22.22	85.0
KN045LA1-2	KA100LZ-4C	1	450	1,120	9.72	47.20	6.70	3,195	12.70	22.22	83.0

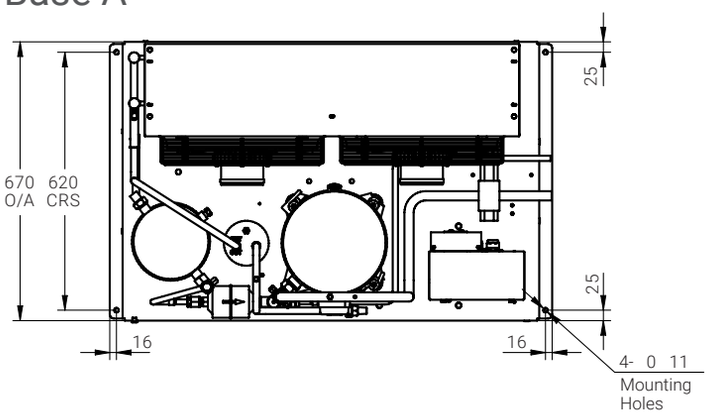
NULLARBOR PEAK CONDENSING UNITS
Physical Data

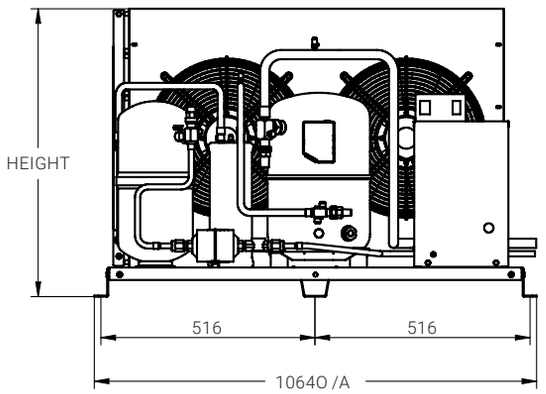
PRODUCT NUMBER	DIMENSIONS (mm)			MOUNTING HOLE (mm)		WEIGHT (kg)	
	HEIGHT	WIDTH	DEPTH	A	B	NET	GROSS
KULTHORN KIRBY KA SERIES MHZ HERMETIC RECIPROCATING COMPRESSORS							
KN070MHA1-2	692	1,064	670	516	620	95	140
KN080MHA1-2	692	1,064	670	516	620	106	150
KN095MHA1-2	692	1,332	750	650	700	110	155
KN110MHA1-2	692	1,332	750	650	700	115	155
KN127MHA1-2	843	1,332	750	650	700	125	180
KULTHORN KIRBY KA SERIES LZ HERMETIC RECIPROCATING COMPRESSORS							
KN030LA1-2	692	1,064	670	516	620	90	135
KN034LA1-2	692	1,064	670	516	620	90	135
KN040LA1-2	692	1,064	670	516	620	95	140
KN045LA1-2	692	1,064	670	516	620	95	140

NULLARBOR PEAK CONDENSING UNITS
Optional Protective Covers

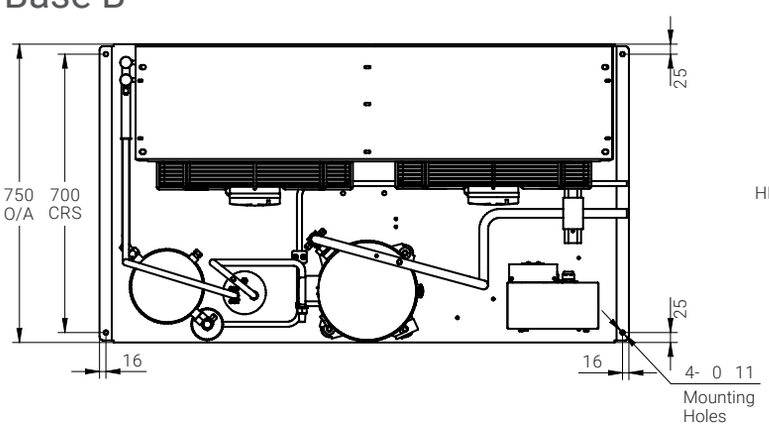
PRODUCT NUMBER	SUITS COVER	DIMENSIONS (mm)			MOUNTING HOLE (mm)		WEIGHT (kg)	
		HEIGHT	WIDTH	DEPTH	A	B	NET	GROSS
KULTHORN KIRBY KA SERIES MHZ HERMETIC RECIPROCATING COMPRESSORS								
KN070MHA1-2	KP608-1	692	1,064	670	516	620	95	140
KN080MHA1-2	KP608-1	692	1,064	670	516	620	106	150
KN095MHA1-2	KP608-2	692	1,332	750	650	700	110	155
KN110MHA1-2	KP608-2	692	1,332	750	650	700	115	155
KN127MHA1-2	KP608-3	843	1,332	750	650	700	125	180
KULTHORN KIRBY KA SERIES LZ HERMETIC RECIPROCATING COMPRESSORS								
KN030LA1-2	KP608-4	692	1,064	670	516	620	90	135
KN034LA1-2	KP608-4	692	1,064	670	516	620	90	135
KN040LA1-2	KP608-4	692	1,064	670	516	620	95	140
KN045LA1-2	KP608-4	692	1,064	670	516	620	95	140

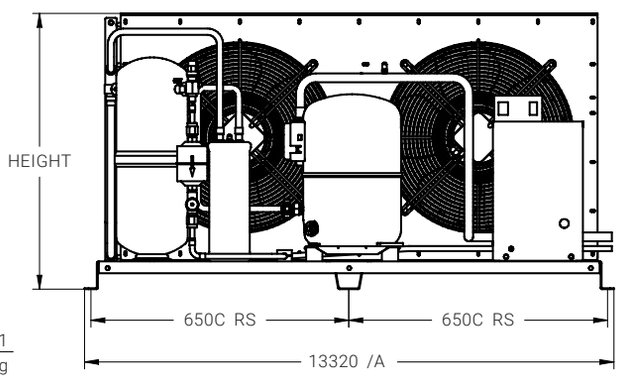
Base A



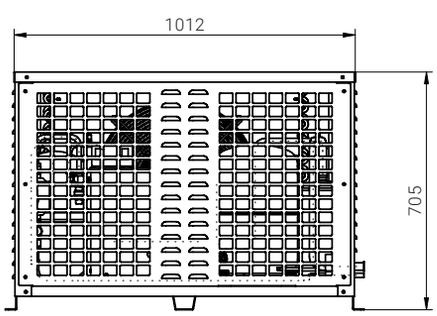


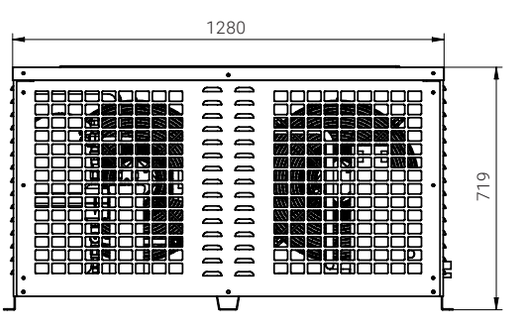
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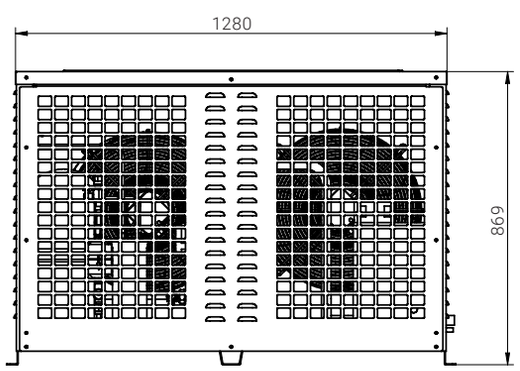




Optional Protective Covers







NOTES

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