



Nullarbor Condensing Units

Built tough and reliable for
Australia's harsh conditions



Nominal capacity



Exclusively distributed by



Nullarbor Condensing Units

Introduction & Overview

Developed for harsh Australian conditions, our 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. And because they're from Kirby, they're robust and reliable - guaranteed.

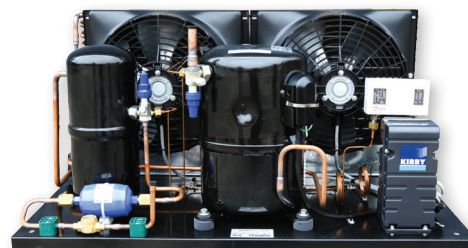
Market Segments

- Retail
- Hospitality
- Institutional
- Light Industrial

Features & Benefits

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

- Incorporating the latest Kirby BA, WJ and AW series compressors 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



Optional Enhancements

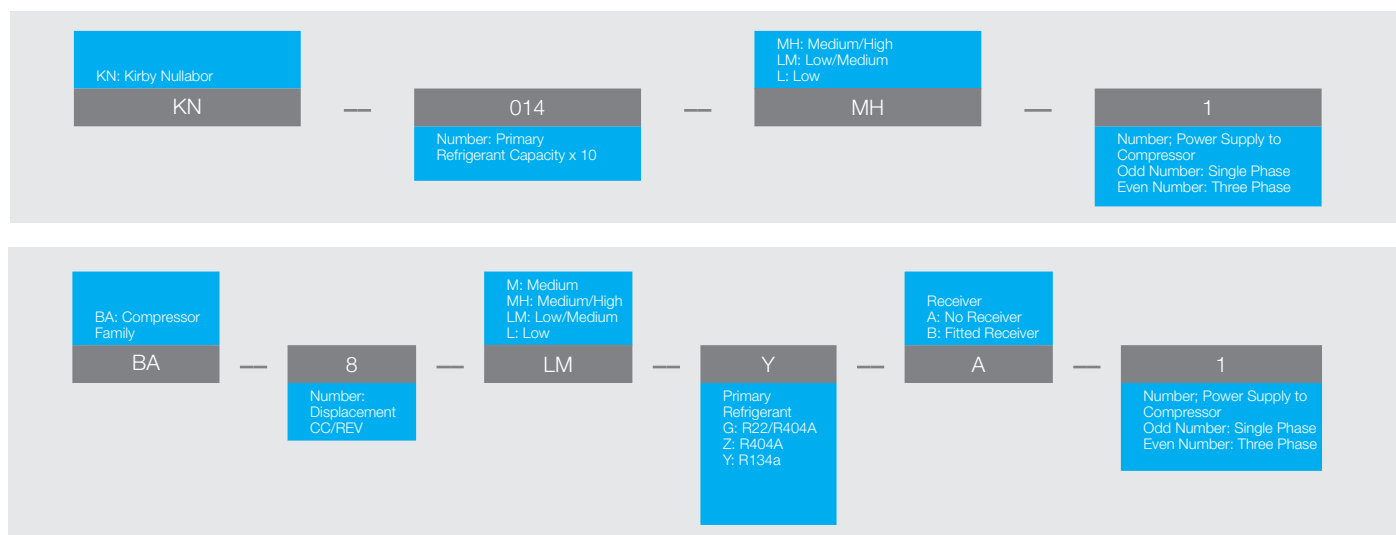
Designed for ultimate flexibility, the following options are available:

- Built-in condensate tray eliminates the need for a separate tray and condensate heater*

*Standard fitment on models BA6MHGBC1, BA8MGBC1, BA9MGBC1 and BA12MGBC1. Not available on other models



Nomenclature



R134a Low/Medium/High Temperature Performance Data

PRODUCT NUMBER	AMBIENT TEMP. °C	CAPACITY (WATTS)								
		SATURATED SUCTION TEMPERATURE (SST) °C								
		-30	-25	-20	-15	-10	-5	0	5	10
BA8LMYA	30			185	240	305	385	485	610	
	35			175	225	285	360	455	575	
	40			160	210	265	340	430	540	
	45			150	195	250	315	400	510	
BA9MHYA/B	30			245	315	395	495	630	800	1020
	35			230	295	370	465	590	755	960
	40			210	275	350	440	555	710	910
	45			195	260	325	410	520	665	855
BA12LMYA/B	30			330	425	540	680	845	1050	
	35			305	400	505	635	795	995	
	40			285	375	475	600	750	935	
	45			265	350	445	560	705	880	
BA14LMYA/B	30			375	485	615	775	970	1220	
	35			345	455	580	725	915	1150	
	40			325	425	540	685	860	1080	
	45			300	400	505	640	805	1020	
BA16LMYA/B	30			525	680	870	1100	1380	1710	
	35			490	635	815	1030	1300	1620	
	40			455	595	765	970	1220	1530	
	45			425	555	715	910	1150	1430	
BA18LZB	30			630	795	985	1210	1500	1860	2320
	35			585	745	920	1140	1410	1760	2190
	40			545	695	865	1070	1330	1660	2070
	45			510	650	810	1000	1250	1560	1950
KN014MH1 (WJ22LZ)	30			605	835	1100	1430	1810	2270	2810
	35			565	780	1030	1340	1710	2140	2660
	40			525	730	970	1260	1610	2020	2510
	45			490	680	905	1180	1510	1900	2360
KN017MH1 (WJ26LZ)	30			755	1030	1360	1730	2180	2700	3300
	35			705	965	1270	1630	2050	2540	3120
	40			655	905	1190	1530	1930	2400	2950
	45			610	845	1120	1430	1810	2250	2780
KN022MH1 (WJ31MHY)	30			935	1240	1590	2000	2480	3050	3730
	35			870	1160	1490	1880	2340	2880	3530
	40			810	1090	1400	1770	2200	2720	3340
	45			755	1010	1310	1650	2060	2550	3140
KN023MH1 (AW40LMY)	30			1100	1430	1820	2280	2830	3490	
	35			1020	1340	1710	2150	2670	3300	
	40			955	1250	1600	2020	2520	3110	
	45			890	1170	1500	1890	2360	2920	
KN029MH1 (AW43LMY)	30			1330	1750	2240	2840	3580	4530	
	35			1230	1640	2100	2670	3380	4280	
	40			1150	1540	1970	2510	3180	4040	
	45			1070	1430	1840	2340	2980	3790	
KN031MH1 (AW48MHY)	30			1500	1940	2450	3090	3890	4910	6180
	35			1400	1810	2300	2900	3660	4630	5840
	40			1300	1700	2160	2730	3450	4360	5520
	45			1210	1580	2020	2550	3230	4100	5200



R404A/R507 Medium/High Temperature Performance Data

PRODUCT NUMBER	AMBIENT TEMP. °C	CAPACITY (WATTS)						
		SATURATED SUCTION TEMPERATURE (SST) °C						
		-20	-15	-10	-5	0	5	10
BA6MHGB	30	245	305	380	460	550	655	755
	35	220	280	350	425	515	600	695
	40	195	255	320	390	470	550	635
	45	175	230	295	360	430	505	580
BA8MGB	30	420	500	590	685	785	900	
	35	385	460	545	635	730	835	
	40	355	425	500	585	675	770	
	45	325	390	460	535	620	710	
BA9MGB	30	485	570	685	825	970	1120	
	35	445	520	630	760	900	1030	
	40	405	470	575	690	820	945	
	45	375	435	525	630	755	865	
BA12MGB	30	560	705	870	1060	1240	1440	
	35	510	645	805	975	1150	1330	
	40	455	585	730	880	1050	1210	
	45	415	535	670	815	970	1110	
BA14MGB	30	695	850	1040	1250	1470	1700	
	35	630	780	950	1150	1360	1560	
	40	565	700	870	1040	1240	1430	
	45	520	645	800	960	1140	1310	
BA16MGB	30	835	1060	1290	1550	1840	2150	
	35	760	965	1190	1430	1690	1980	
	40	680	875	1090	1300	1540	1810	
	45	615	805	1000	1200	1430	1670	
BA18MGB	30	1080	1320	1590	1900	2220	2560	
	35	985	1210	1460	1750	2050	2360	
	40	885	1090	1330	1590	1870	2150	
	45	815	1000	1220	1460	1720	1980	
KN024MH1 (WJ22MHG)	30	1320	1620	1960	2330	2750	3210	3720
	35	1220	1500	1820	2170	2550	2980	3440
	40	1100	1360	1650	1960	2320	2700	3120
	45	950	1190	1450	1730	2050	2390	
KN028MH1 (WJ26MHG)	30	1620	1970	2370	2820	3330	3900	4520
	35	1440	1770	2150	2560	3020	3530	4070
	40	1340	1660	2010	2390	2800	3230	3700
	45	1200	1510	1830	2170	2530	2900	3290
KN036MH1 (WJ31MHG)	30	1960	2450	2990	3610	4290	5030	5850
	35	1810	2280	2790	3360	3980	4650	5380
	40	1610	2050	2530	3050	3620	4220	4860
	45	1430	1850	2300	2780	3280	3810	4370
KN035MH1 (AW38MGB)	30	2080	2470	2970	3570	4200	4890	
	35	1910	2260	2720	3290	3890	4490	
	40	1720	2040	2490	2980	3540	4100	
	45	1580	1880	2280	2740	3260		
KN044MH1 (AW43MHG)	30	2460	2990	3650	4410	5240	6120	7010
	35	2130	2650	3280	4020	4820	5660	6510
	40	1870	2360	2960	3660	4430	5220	6020
	45	1640	2100	2670	3330	4040	4790	
KN048MH1 (AW48MHG)	30	2390	3100	3910	4800	5790	6870	8050
	35	2160	2820	3570	4410	5350	6370	7490
	40	1920	2530	3220	4010	4890	5860	6920
	45	1700	2260	2900	3640	4460	5370	
KN051MH1 (AW54MG)	30	2530	3340	4190	5120	6080	7140	
	35	2300	3050	3860	4730	5620	6570	
	40	2060	2770	3520	4280	5140		
	45	1870	2530	3240	3940	4730		

R404A/R507 Low Temperature Performance Data

PRODUCT NUMBER	AMBIENT TEMP. °C	CAPACITY (WATTS)							
		SATURATED SUCTION TEMPERATURE (SST) °C							
		-40	-35	-30	-25	-20	-15	-10	-5
BA8MGB	30	160	215	275	345	420	500	590	
	35	135	190	250	315	385	460	545	
	40	120	170	225	285	355	425	500	
	45	105	155	205	260	325	390	460	
BA12LMYA/B	30	245	320	405	500	605	720		
	35	210	285	365	455	555	665		
	40	180	255	330	415	510	610		
	45	160	230	300	380	465	560		
BA14LMYA/B	30	295	385	485	595	725	865		
	35	250	340	435	545	665	800		
	40	220	305	395	495	610	740		
	45	195	275	360	455	560	675		
BA16LMYA/B	30	335	435	550	675	820	990		
	35	290	385	495	615	755	910		
	40	250	345	450	565	695	840		
	45	220	310	405	515	635	770		
BA18LZA/B	30	385	530	700	890	1100	1330	1570	
	35	330	470	630	810	1010	1230	1450	
	40	290	420	575	745	930	1130	1340	
	45	255	375	520	680	850	1040	1230	
KN014MH1 (WJ22LZ)	30	380	555	750	970	1210	1480	1780	
	35	320	480	665	870	1100	1350	1630	
	40	260	410	580	775	985	1220	1480	
	45	195	335	495	675	870	1090	1320	
KN017MH1 (WJ26LZ)	30	470	670	920	1200	1510	1850	2200	
	35	415	600	830	1090	1380	1690	2020	
	40	350	525	740	985	1250	1540	1850	
	45	230	395	595	825	1080	1350	1640	
KN014L1 (WJ31LZ)	30	610	860	1150	1480	1830	2210	2600	
	35	505	740	1020	1330	1660	2020	2390	
	40	405	630	890	1190	1500	1840	2190	
	45	325	535	785	1060	1360	1680	2000	
KN022MH1 (WJ31MHY)	30	595	890	1200	1530	1890	2290	2740	
	35	510	795	1090	1400	1740	2120	2550	
	40	455	720	1000	1290	1620	1970	2380	
	45	400	655	915	1190	1490	1820	2200	
KN015L1 (AW40LZ)	30	595	885	1190	1500	1830	2160	2510	
	35	505	785	1070	1370	1680	1990	2310	
	40	440	705	975	1250	1540	1840	2140	
	45	385	630	880	1140	1410	1680	1960	
KN023MH1 (AW40LMY)	30	605	900	1210	1540	1900	2290	2710	
	35	515	795	1090	1400	1740	2110	2510	
	40	450	715	990	1290	1600	1940	2320	
	45	395	640	900	1170	1460	1780	2130	
KN029MH1 (AW43LMY)	30	880	1230	1620	2040	2510	3050		
	35	750	1090	1460	1860	2300	2810		
	40	655	980	1330	1700	2120	2590		
	45	575	880	1200	1550	1940	2380		
KN024L1 (AW54LZ)	30	1010	1420	1880	2390	2990	3680		
	35	865	1260	1690	2180	2740	3390		
	40	755	1130	1540	2000	2520	3130		
	45	660	1010	1390	1820	2310	2870		

Nullarbor Condensing Units

Dimensional Data

MODEL NUMBER	CONNECTIONS (IN.)		DIMENSIONS (MM)			NET WEIGHT (KG)
	SUCTION	LIQUID	DEPTH	WIDTH	HEIGHT	
BA6MHGBC1	3/8 S.T.	1/4 S.V.	470	330	276	17
BA8MHGBC1	3/8 S.T.	1/4 S.V.	470	330	276	17
BA9MHGBC1	3/8 S.T.	1/4 S.V.	470	330	276	21
BA12MHGBC1	3/8 S.T.	1/4 S.V.	470	330	276	22
BA6MHGB	3/8 S.T.	1/4 S.V.	470	330	235	17
BA8LMYA	3/8 S.T.	1/4 S.V.	470	330	235	15
BA8MGB	3/8 S.T.	1/4 S.V.	470	330	235	17
BA9MGB	3/8 S.T.	1/4 S.V.	470	330	279	21
BA9MHYA	3/8 S.T.	1/4 S.V.	470	330	280	16
BA9MHYB	3/8 S.T.	1/4 S.V.	470	330	280	18
BA12LMYA	3/8 S.T.	1/4 S.V.	470	330	279	19
BA12LMYB	3/8 S.T.	1/4 S.V.	470	330	279	21
BA12MGB	3/8 S.T.	1/4 S.V.	500	435	338	32
BA14LMYA	3/8 S.T.	1/4 S.V.	470	330	279	20
BA14LMYB	3/8 S.T.	1/4 S.V.	470	330	279	22
BA14MGB	3/8 S.T.	1/4 S.V.	500	435	338	34
BA16LMYA	3/8 S.T.	1/4 S.V.	500	435	338	30
BA16LMYB	3/8 S.T.	1/4 S.V.	500	435	338	32
BA16MGB	3/8 S.T.	1/4 S.V.	500	435	338	35
BA18LZB	3/8 S.T.	3/8 S.V.	550	435	338	34
BA18MGB	3/8 S.T.	3/8 S.V.	550	435	395	35
KN014MH1	1/2 S.T.	3/8 S.T.	550	435	338	37
KN024MH1	1/2 S.T.	3/8 S.T.	620	520	398	41
KN017MH1	1/2 S.T.	3/8 S.T.	550	435	338	38
KN028MH1	1/2 S.T.	3/8 S.T.	620	520	448	42
KN014L1	5/8 S.T.	3/8 S.T.	620	520	395	41
KN036MH1	5/8 S.T.	3/8 S.T.	620	520	446	43
KN022MH1	5/8 S.T.	3/8 S.T.	620	520	448	42
KN035MH1	5/8 S.T.	3/8 S.T.	550	860	422	63
KN015L1	5/8 S.T.	3/8 S.T.	550	635	340	61
KN023MH1	5/8 S.T.	3/8 S.T.	620	520	448	60
KN029MH1	5/8 S.T.	3/8 S.T.	550	860	345	61
KN044MH1	5/8 S.T.	3/8 S.T.	550	860	421	69
KN048MH1	5/8 S.T.	3/8 S.T.	550	860	421	71
KN031MH1	5/8 S.T.	3/8 S.T.	550	860	421	70
KN024L1	5/8 S.T.	3/8 S.T.	550	860	421	68
KN051MH1	5/8 S.T.	3/8 S.T.	550	860	421	71

S.T.: Solder Tube

S.V.: Solder Valve

Liquid Entering Temperature varies with condensing temperature, with inherent sub-cooling averaging 2 to 3K.

The following factors may be used with sufficient accuracy for capacity correction as required.

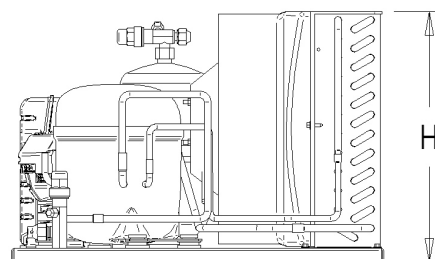
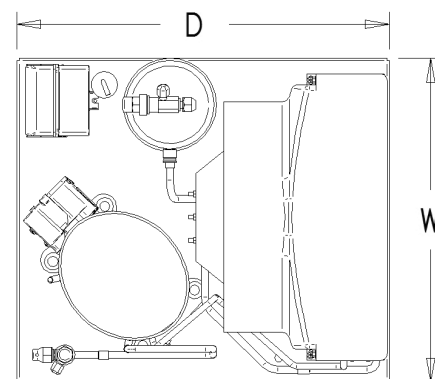
- Return Vapour Temperature should never exceed 20°C for M/HBP applications. Max superheat for LBP application is 20K.

SST	-40	-30	-20	-10	0	10
R404A	0.88	0.89	0.91	0.94	0.97	1
R134a	--	0.95	0.95	0.95	0.98	1

Estimating R407C Capacities

Using the R404A capacities for the correct size, multiply the capacity by the following factors.

R22/R407C						
	-15	-10	-5	0	5	10
30	0.90	0.93	0.95	0.97	0.98	0.98
35	0.92	0.95	0.96	0.98	1.00	1.00
40	0.94	0.97	0.99	1.00	1.02	1.02
45	0.95	0.98	1.01	1.02	1.03	1.00



Product Specification

smart@ccess

- Supported through smart@ccess with product selection and heatload information
- Complementary Kirby Project Tool assists with project estimations

R404A/R507 Low Temperature Physical Data

PRODUCT NUMBER	APPLICATION	HP	UNIT POWER	RLA	COMPRESSOR MODEL	DISPL. (CC)	MOTOR TYPE	VOLTS	FACE DIMS. (mm)	FAN(S) (qty x dia.)	RECEIVER VOL. (litres) 'B' MODELS	AIRFLOW (l/sec)	SOUND POWER LEVEL dB(A)	SOUND PRESSURE LEVEL dB(A) @ 3m
BA8MGB	L	1/4	370	2.6	BA8MG	7.55	CSIR	240	203 x 273	1 x 200	1.4	60	57.9	40.4
BA12LMYA/B	L	1/3	480	2.8	BA12LMY	12.1	CSIR	240	254 x 270	1 x 230	1.4	105	58.7	41.2
BA14LMYA/B	L	1/3	540	4.0	BA14LMY	14.1	CSIR	240	254 x 270	1 x 230	1.4	105	64.3	46.8
BA16LMYA/B	L	3/8	600	2.8	BA16LMY	16.2	CSR	240	305 x 350	1 x 300	1.4	285	64.8	47.3
BA18LZB	L	1/2	770	3.5	BA18LZ	18	CSR	220 / 240	305 x 350	1 x 300	2.4	275	69.2	51.7
KN014MH1	L	3/4	830	3.3	WJ22LZ	21.5	CSR	220 / 240	305 x 350	1 x 300	2.4	240	70.6	53.1
KN017MH1	L	7/8	970	4.8	WJ26LZ	26.8	CSR	220 / 240	305 x 350	1 x 300	2.4	240	71.0	53.5
KN014L1	L	1	1040	5.5	WJ31LZ	30.5	CSR	220 / 240	356 x 450	1 x 300	2.4	245	70.9	53.4
KN015L1	L	1	1120	4.7	AW40LZ	39.6	CSR	220 / 240	305 x 560	1 x 300	2.4	280	71.2	53.7
KN023MH1	L	1	1110	4.6	AW40LZ	39.6	CSR	220 / 240	406 x 450	1 x 350	2.4	530	70.3	52.8
KN029MH1	L	1 1/4	1380	5.8	AW43LZ	43.1	CSR	220 / 240	305 x 770	2 x 300	4.4	520	70.6	53.1
KN024L1	L	1 1/2	1800	7.8	AW54LZ	53.5	CSR	220 / 240	381 x 770	2 x 300	4.4	530	70.9	53.4

R404A & R507 Medium/High Temperature Physical Data

PRODUCT NUMBER	APPLICATION	HP	UNIT POWER	RLA	COMPRESSOR MODEL	DISPL. (CC)	MOTOR TYPE	VOLTS	FACE DIMS. (mm)	FAN(S) (qty x dia.)	RECEIVER VOL. (litres) 'B' MODELS	AIRFLOW (l/sec)	SOUND POWER LEVEL dB(A)	SOUND PRESSURE LEVEL dB(A) @ 3m
BA6MHGB	M/H	1/4	480	2.8	BA6MHG	5.51	CSIR	240	203 x 273	1 x 200	1.4	65	57.5	40.0
BA8MGB	M	1/4	470	2.8	BA8MG	7.55	CSIR	240	203 x 273	1 x 200	1.4	60	57.9	40.4
BA9MGB	M	1/3	560	3.2	BA9MG	8.88	CSIR	240	254 x 270	1 x 230	1.4	105	58.5	41.0
BA12MGB	M	3/8	580	2.8	BA12MG	12.1	CSR	240	305 x 350	1 x 300	1.4	285	58.7	41.2
BA14MGB	M	1/2	750	3.4	BA14MG	14.1	CSR	240	305 x 350	1 x 300	1.4	275	64.3	46.8
BA16MGB	M	3/4	850	3	BA16MG	16.2	CSR	240	305 x 350	1 x 300	2.4	240	64.8	47.3
BA18MGB	M	3/4	1290	4.4	BA18MG	18	CSR	220 / 240	356 x 450	1 x 300	2.4	260	69.2	51.7
KN024MH1	M/H	7/8	1390	5.6	WJ22MHG	21.5	CSR	220 / 240	356 x 450	1 x 300	2.4	245	70.3	52.8
KN028MH1	M/H	1	1650	7	WJ26MHG	26.8	CSR	220 / 240	406 x 450	1 x 300	2.4	290	71.6	54.1
KN036MH1	M/H	1 1/4	2000	7.9	WJ31MHG	30.5	CSR	220 / 240	406 x 450	1 x 350	2.4	480	73.3	55.8
KN035MH1	M	1 1/2	1660	7.9	AW38MG	37.5	CSR	220 / 240	381 x 770	2 x 300	4.4	630	69.5	52.0
KN044MH1-1	M/H	2	2150	9.6	AW43MHG	43.1	CSR	220 / 240	381 x 770	2 x 300	4.4	600	69.2	51.7
KN044MH1-2	M/H	2	2200	3.2/PH	AW43MHG	43.1	3 PH	380 / 420	381 x 770	2 x 300	4.4	600	69.8	52.3
KN048MH1-1	M/H	2 1/4	2400	11.2	AW48MHG	48.4	CSR	220 / 240	381 x 770	2 x 300	4.4	600	70.3	52.8
KN048MH1-2	M/H	2 1/4	2600	4.0/PH	AW48MHG	48.4	3 PH	380 / 420	381 x 770	2 x 300	4.4	600	70.3	52.8
KN051MH1-1	M	2 1/2	2550	12.5	AW54MHG	53.5	CSR	220 / 240	381 x 770	2 x 300	4.4	600	71.5	54.0
KN051MH1-2	M	2 1/2	2850	4.6/PH	AW54MHG	53.5	3 PH	380 / 420	381 x 770	2 x 300	4.4	600	71.5	54.0

R134a Low/Medium/High Temperature Physical Data

PRODUCT NUMBER	APPLICATION	HP	UNIT POWER	RLA	COMPRESSOR MODEL	DISPL. (CC)	MOTOR TYPE	VOLTS	FACE DIMS. (mm)	FAN(S) (qty x dia.)	RECEIVER VOL. (litres) 'B' MODELS	AIRFLOW (l/sec)	SOUND POWER LEVEL dB(A)	SOUND PRESSURE LEVEL *dB(A) @ 3m
BA8LMYA	L/M	1/4	260	1.8	BA8LMY	7.55	RSIR	240	203 x 273	1 x 200	—	65	57.9	40.4
BA9MHYA/B	M/H	1/4	410	2.6	BA9MHY	8.88	CSIR	240	254 x 270	1 x 230	1.4	115	58.5	41.0
BA12LMYA/B	L/M	1/3	410	2.9	BA12LMY	12.1	CSIR	240	254 x 270	1 x 230	1.4	105	58.7	41.2
BA14LMYA/B	L/M	1/3	535	4	BA14LMY	14.1	CSIR	240	254 x 270	1 x 230	1.4	105	64.3	46.8
BA16LMYA/B	L/M	3/8	640	3	BA16LMY	16.2	CSR	240	305 x 350	1 x 300	1.4	285	64.8	47.3
BA18LZB	L/M	1/2	750	3.5	BA18LZ	18	CSR	220 / 240	305 x 350	1 x 300	2.4	275	69.2	51.7
KN014MH1	L/M	5/8	840	4.1	WJ22LZ	21.5	CSR	220 / 240	305 x 350	1 x 300	2.4	240	70.1	52.6
KN017MH1	L/M	3/4	910	4.6	WJ26LZ	26.8	CSR	220 / 240	305 x 350	1 x 300	2.4	240	71.6	54.1
KN022MH1	M/H	1	1140	5.5	WJ31LZ	30.5	CSR	220 / 240	406 x 450	1 x 350	2.4	530	71.9	54.4
KN023MH1	L/M	1	1110	4.6	AW40LZ	39.6	CSR	220 / 240	406 x 450	1 x 350	2.4	530	71.5	54.0
KN029MH1	L/M	1	1380	5.8	AW43LZ	43.1	CSR	220 / 240	305 x 770	2 x 300	4.4	520	71.9	54.4
KN031MH1	M/H	1 1/2	1750	8.2	AW48MHY	48.1	CSR	220 / 240	381 x 770	2 x 300	4.4	600	72.1	54.6

*Sound pressure level at 3m distance from the unit can be estimated using various deductions depending on the location of the unit.

Supporting Documentation

TB-101-1 - Nullabor Condensing Unit Noise Level Data



The contents of this brochure are copyright protected and may not be reproduced in any form without the written consent of Heatcraft.

Recommendations and advice regarding the use of the products described in this publication are to be taken as a guide only and are given without liability on the part of the company or its employees. As Heatcraft continually improves its product range and processes, Heatcraft reserves the right to change product specifications without any prior notification. Please refer to the Heatcraft website for the latest version of this publication.

The purchaser should independently determine the suitability of the product for the intended use and application and that the product complies with relevant standards. Heatcraft accepts no responsibility for loss or damage (direct or indirect and including consequential loss, loss of profits or opportunity and economic loss) however arising which results from any errors or omissions in the information contained in this publication or arising from the use or application of the information contained herein.

KIRBYNULLARBOR_0617

13 23 50
heatcraft.com.au

0800 653 330
heatcraft.co.nz



® and ™ Registered Trade Mark and Trade Mark of Heatcraft Australia Pty Ltd
© Copyright 2017 Heatcraft Australia Pty Ltd