



KIRBY CONTRACTOR® Condensing Units

Built tough and reliable
for Australia's harsh conditions



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KIRBY CONTRACTOR®

Condensing Units

Introduction and Overview

Developed for harsh Australian conditions, The Kirby Contractor® Hi-Ambient condensing units are rated for operation up to 43°C ambient.

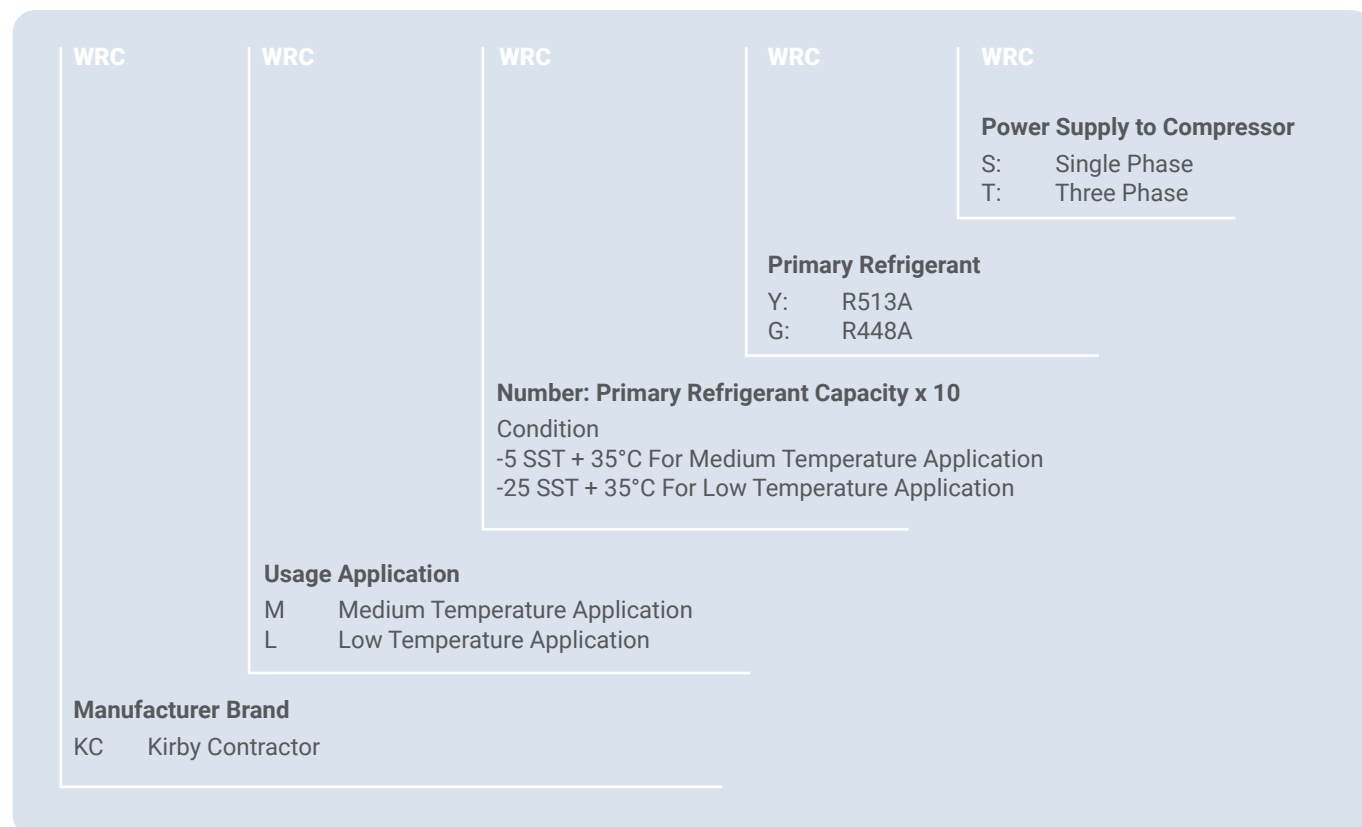
With improved performance due to the inclusion of large condensers, The Kirby Contractor® range delivers high output with high efficiency. And because they're from Kirby, they're robust and reliable - guaranteed.

Features & Benefits

The Kirby Contractor® Condensing Units offer proven design attributes to be installation ready:

- Incorporating either an Embraco or Copeland compressor to deliver reliability and proven performance
- High ambient condenser optimises efficiency and airflow for continuous operation at up to 43°C ambient temperatures
- Lower noise and vibration levels through clever compressor design
- Select units available in single phase or three phase
- All condenser coils supplied with "Blue Coat" fin and coil protective coating
- Contractor Series units include liquid line drier, sight glass and HP/LP control
- Compact footprint for ease of installation
- Durable painted galvanised bases maximise service life
- Premium quality inclusions and controls

Kirby Contractor® Condensing Units Nomenclature



KIRBY CONTRACTOR® CONDENSING UNITS

R513A Medium/High Temperature Performance Data

PRODUCT NUMBER	AMBIENT TEMP °C	CAPACITY (WATTS)						
		SATURATED SUCTION TEMPERATURE (SST) °C						
		-20	-15	-10	-5	0	5	10
KCM130YS (NT6220Z)	35		860	1060	1290	1560	1850	2170
	43			930	1140	1370	1630	1900
KCM150YS (NTU6222ZV)	35		1030	1260	1530	1850	2190	2580
	43			1130	1370	1650	1960	2310
KCM180YS (NTU6224ZV)	35		1250	1520	1840	2200	2610	3040
	43			1320	1600	1920	2260	2640
KCM200YS (KCM511CAL-B312H)	35		1190	1590	2050	2570	3160	3810
	43		940	1310	1720	2170	2690	3240
KCM260YS (KCM514CAL-B312H)	35		1470	1980	2590	3290	4060	4870
	43		1160	1620	2170	2780	3440	4120
KCM310YS (KCM519CAL-B312H)	35		2380	2500	3100	4130	5370	6640
	43		1510	2060	2740	3510	4380	5340

* Capacities based on return vapour temperature of 20°C and zero subcooling.

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.

KIRBY CONTRACTOR® CONDENSING UNITS

R448A Medium/High Temperature Performance Data

PRODUCT NUMBER	AMBIENT TEMP °C	CAPACITY (WATTS)						
		SATURATED SUCTION TEMPERATURE (SST) °C						
		-20	-15	-10	-5	0	5	10
KCM210GS (NTU6232GKV)	35		1320	1620	1970	2360	2780	3250
	43		1140	1410	1710	2050	2420	2810
KCM270GS (NTU6238GKV)	35		1720	2130	2570	3060	3580	4100
	43		1500	1860	2250	2670	3120	3590
KCM300GS (NTU6240GKV)	35		1860	2300	2800	3360	3940	4590
	43		1620	2010	2440	2920	3440	3990
KCM340GS (KCM511CAL-B312H)	35		1890	2510	3200	3950	4720	5490
	43		1500	2040	2670	3370	4080	4790
KCM380GS (NJX6250GK)	35		2450	3020	3660	4360	5090	5860
	43		2110	2630	3200	3820	4460	5130
KCM440GS (KCM514CAL-B312H)	35		2530	3270	4100	5000	5940	6960
	43		2020	2720	3470	4260	5110	6000
KCM440GT (KCM514CAL-E512H)	35		2550	3310	4130	5040	6000	6990
	43		2050	2740	3500	4310	5170	6050
KCM560GS (KCM519CAL-B312H)	35		3230	4200	5270	6430	7720	9130
	43		2630	3470	4390	5410	6550	7820
KCM560GT (KCM519CAL-E512H)	35		3230	4260	5310	6450	7690	9140
	43		2630	3490	4380	5370	6480	7790

* Capacities based on return vapour temperature of 20°C and zero subcooling.

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KIRBY CONTRACTOR® CONDENSING UNITS

R448A Low Temperature Performance Data

PRODUCT NUMBER	AMBIENT TEMP °C	CAPACITY (WATTS)						
		SATURATED SUCTION TEMPERATURE (SST) °C						
		-40	-35	-30	-25	-20	-15	-10
KCL080GS (NT2180GK)	35			540	710	910	1130	1370
	43			460	600	770	980	1170
KCL110GS (NT2210GK)	35			700	940	1200	1490	1800
	43			610	800	1040	1290	1570
KCL130GS (NJ2212GK)	35			830	1110	1420	1740	2070
	43			700	930	1190	1460	1760
KCL170GS (NJX2219GK)	35			1100	1430	1790	2200	2630
	43			960	1210	1530	1900	2270
KCL180GS (KCM475LAL-C312H)	35			1150	1530	1940	2410	2990
	43			860	1170	1490	1900	2380

* Capacities based on return vapour temperature of 20°C and zero subcooling.

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.

Capacity Correction Factors

Ratings are based on return gas temperature of 20°C and zero subcooling.

The following factors may be used with sufficient accuracy for return gas superheat of 10K.

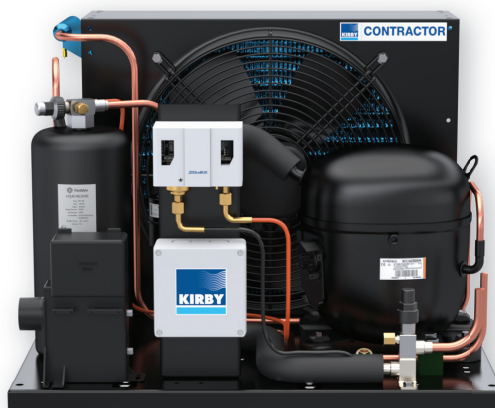
Return Vapour Temperature should never exceed 20°C for M/HBP applications. Max superheat for LBP application is 20K.

Product Specification

- Supported through smart@ccess with product selection and heatload information.
- Complementary Kirby Select Project Tool assists with project estimation.
- Refer to smart@ccess for rating conditions on alternate refrigerants.

For R448A & R513A, the following factors can be used for 10K superheat

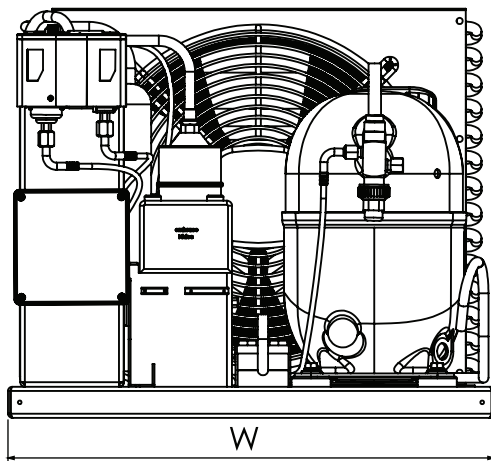
SST	-40	-30	-20	-10	0	10
R513A	-	-	0.95	0.97	0.98	1.00
R448A	-	0.91	0.93	0.95	0.97	1.00



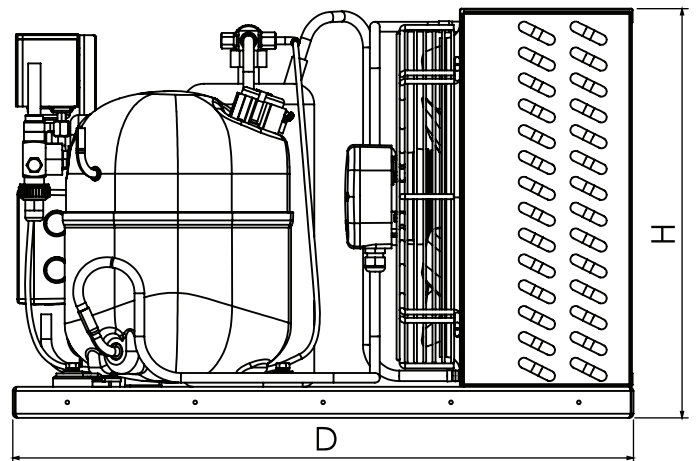
KIRBY CONTRACTOR® CONDENSING UNITS

Dimensional Data

	PRODUCT NUMBER	CONNECTION (in.)		DIMENSIONS (mm.)			NET WEIGHT (kg)
		SUCTION	LIQUID	DEPTH	WIDTH	HEIGHT	
R134a MT/HT	KCM130YS	1/2"	3/8"	600	470	400	51
	KCM150YS	1/2"	3/8"	600	470	400	51
	KCM180YS	1/2"	3/8"	600	470	400	51
	KCM200YS	5/8"	3/8"	570	600	450	70
	KCM260YS	5/8"	3/8"	550	860	400	77
	KCM310YS	5/8"	3/8"	550	860	400	77
R404A/R448A MT/HT	KCM210GS	1/2"	3/8"	600	470	400	51
	KCM270GS	1/2"	3/8"	570	600	450	66
	KCM340GS	5/8"	3/8"	550	860	400	77
	KCM380GS	5/8"	3/8"	550	860	400	70
	KCM440GS	5/8"	3/8"	550	860	400	77
	KCM400GT	5/8"	3/8"	550	860	400	77
	KCM560GS	5/8"	3/8"	570	990	450	88
	KCM560GT	5/8"	3/8"	570	990	450	88
R404A/R448A LT	KCL080GS	1/2"	3/8"	600	470	400	51
	KCL110GS	1/2"	3/8"	600	470	400	51
	KCL130GS	5/8"	3/8"	600	470	400	51
	KCL170GS	5/8"	3/8"	600	470	400	51
	KCL180GS	5/8"	3/8"	550	860	400	77



FRONT VIEW



SIDE VIEW

KIRBY CONTRACTOR® CONDENSING UNITS

R513A Medium/High Temperature Physical Data

PRODUCT NUMBER	APPLICATION	HP	UNIT POWER (WATT)	RLA	COMPRESSOR MODEL	DISPL (cc)	MOTOR TYPE	VOLTS	FACE DIMS (mm.)	FAN(S) (QTY x DIA.)	RECEIVER VOL. (Litres)	AIR FLOW (L/ Sec)	SOUND POWER LEVEL DB(A)	SOUND PRESSURE LEVEL DB(A) @3M
KCM130YS	M/H	1	815	5.5	NT6220Z	22.37	CSR	220-240	376 x 356	1 x 300	3	350	63	43
KCM150YS	M/H	1	775	3.9	NTU6222ZV	23.7	CSR	220-240	376 x 356	1 x 300	3	350	66	46
KCM180YS	M/H	1.3	895	4.4	NTU6224ZV	27.8	CSR	220-240	376 x 356	1 x 300	3	320	68	48
KCM200YS	M/H	2	1120	6.3	KCM511CAL-B312H	40.8	CSR	220-240	458 x 406	1 x 350	3	550	74	54
KCM260YS	M/H	2.5	1470	8.2	KCM514CAL-B312H	51.5	CSR	220-240	756 x 356	2 x 300	4	790	77	57
KCM310YS	M/H	3	1780	10	KCM519CAL-B312H	59.7	CSR	220-240	756 x 356	2 x 300	4	690	79	59

KIRBY CONTRACTOR® CONDENSING UNITS

R448A Medium/High Temperature Physical Data

PRODUCT NUMBER	APPLICATION	HP	UNIT POWER (WATT)	RLA	COMPRESSOR MODEL	DISPL (cc)	MOTOR TYPE	VOLTS	FACE DIMS (mm.)	FAN(S) (QTY x DIA.)	RECEIVER VOL. (Litres)	AIR FLOW (L/ Sec)	SOUND POWER LEVEL DB(A)	SOUND PRESSURE LEVEL DB(A) @3M
KCM210GS	M/H	1	1115	5	NTU6232GKV	20.44	CSR	220-240	376 x 356	1 x 300	3	320	71	51
KCM270GS	M/H	1.5	1510	6.2	NTU6238GKV	26.21	CSR	220-240	458 x 406	1 x 350	3	550	72	52
KCM340GS	M/H	2	1860	7.8	KCM511CAL-B312H	40.8	CSR	220-240	756 x 356	2 x 300	4	690	74	54
KCM380GS	M/H	2	2270	9.7	NJX620GK	37.88	CSR	220-240	756 x 356	2 x 300	4	690	73	53
KCM440GS	M/H	2.5	2350	10.2	KCM514CAL-B312H	51.5	CSR	220-240	756 x 356	2 x 300	4	630	77	57
KCM440GT	M/H	2.5	2270	4.6	KCM514CAL-E512H	51.5	3 PH	280-420	756 x 356	2 x 300	4	630	77	57
KCM560GS	M/H	3	2950	12.8	KCM519CAL-B312H	59.7	CSR	220-240	838 x 406	2 x 350	4	1010	79	59
KCM560GT	M/H	3	2880	5.8	KCM519CAL-E512H	59.7	3 PH	280-420	838 x 406	2 x 350	4	1010	79	59

KIRBY CONTRACTOR® CONDENSING UNITS

R448A Low Temperature Physical Data

PRODUCT NUMBER	APPLICATION	HP	UNIT POWER (WATT)	RLA	COMPRESSOR MODEL	DISPL (cc)	MOTOR TYPE	VOLTS	FACE DIMS (mm.)	FAN(S) (QTY x DIA.)	RECEIVER VOL. (Litres)	AIR FLOW (L/ Sec)	SOUND POWER LEVEL DB(A)	SOUND PRESSURE LEVEL DB(A) @3M
KCL080GS	L	1	825	2.8	NT2180GK	20.44	CSR	220-240	376 x 356	1 x 300	3	390	64	44
KCL110GS	L	1.3	1035	4.1	NT2210GK	26.21	CSR	220-240	376 x 356	1 x 300	3	350	64	44
KCL130GS	L	1.3	1245	8.3	NJ2212GK	34.38	CSR	220-240	376 x 356	1 x 300	3	350	68	48
KCL170GS	L	2	1445	7.9	NJX2219GK	37.88	CSR	220-240	376 x 356	1 x 300	3	320	71	51
KCL180GS	L	2	1640	7.6	KCM475LAL-C312H	51.47	CSR	220-240	756 x 356	2 x 300	4	790	75	55

* Total unit input power = Compressor input (-5 sst/+AMB35 or -25 sst/+AMB35) + total fan motor input

* Total unit RLA = Compressor RLA (-5 sst/+AMB35 or -25/+AMB35) + total fan motor RLA

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

KIRBY CONTRACTOR® CONDENSING UNITS

Optional Protective Covers

Introduction and Overview

The Kirby Contractor® Protective Covers provide protection against environmental elements to prolong the lifespan and condition of the units.

Features & Benefits

The Kirby Contractor® Protective Covers offer proven design attributes to be installation ready:

- Galvanized steel with black powder coating
- Easy access for suction and liquid line via laser cut holes
- Cross-break on the top casing provides extra support to the top frame
- Front grill design
- Easily mounted to the condensing unit base plate with screws and plastic washers provided

PRODUCT NUMBER	TO SUIT MODEL	COVER DIMENSIONS (mm.)		
		WIDTH	DEPTH	HEIGHT
KCC01	KCL080GS	480	610	450
	KCL110GS			
	KCL130GS			
	KCL170GS			
	KCL130YS			
	KCM150YS			
	KCM180YS			
	KCM210GS			
KCC02	KCM200YS	610	580	500
	KCM270GS			
KCC03	KCL180GS	870	615	480
	KCM260YS			
	KCM310YS			
	KCM340GS			
	KCM380GS			
	KCM440GS			
	KCM440GT			
KCC04	KCM560GS	1000	630	500
	KCM560GT			





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