

# Ceiling Cassette Split System

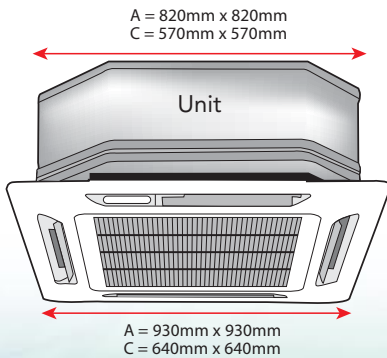


*Engineered for flexibility and performance.™*

## Wide Range Of Offerings

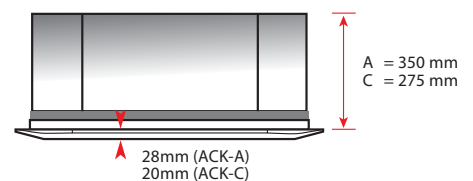
The 2 series of MCK offers flexibility and choices for installation depending on the interior design requirements.

The compact MCK-C series fits perfectly into the standard ceiling board of 600mm x 600mm and thus offers easy installation.



## Stylish And Slim Panel

The slim panel can be blended easily into any interior decoration and design.



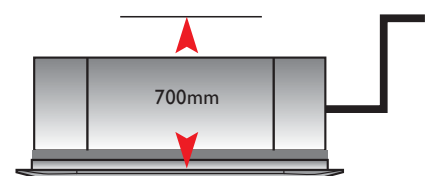
## 4 Way Air Discharge And Air Swing

It comes with 4 way air discharge and air swing function to ensure better air distribution and circulation in the room.



## Built-In High Head Drain Pump

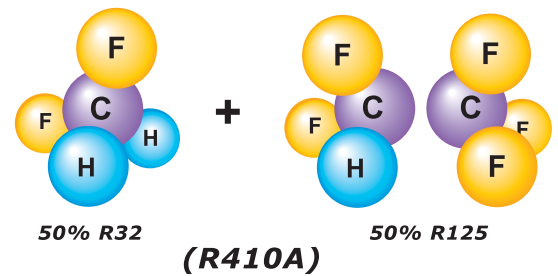
The unit comes with a built-in high head drain pump 700mm head. A safety float is incorporated in the drain pump to monitor its water level.





## R410A Refrigerant

- Higher volumetric capacity and increased the COP compared to R22.



## Auto Mode

Auto Mode allows the setting to change automatically between cool and heat mode depending on the room temperature and the set temperature required.

## Hot Keep Cycle

During heat mode hot keep cycle, the fan will run at low speed during the thermostat cycle off. As a result, one will not fill the draft of cold air discharge from the unit. Option of fan stop or fan run at specific interval timing can also be selected.



## Self Diagnosis

This intelligent feature helps to detect faults or malfunctioning in the system and give user a warning by blinking of the LED lights.

## NIM – Able

The MCK range of product is able to communicate with the versatile NIM networking control module and offers the opportunity of one centralized control for a system of multiple indoor units in a building.

## Choices Of Wired And Wireless Controller

Flexibility in choosing different type of controller for different application needs.



CEILING CASSETTE MCK-A SERIES - R22

HEAT PUMP MODEL		INDOOR UNIT		MCK 020AR		MCK 025AR	MCK 030AR		
		OUTDOOR UNIT		MLC 018CR	MLC 020CR	MLC 025CR	MLC 028CR	MLC 030CR	
NOMINAL COOLING CAPACITY			Btu/h	18000	20000	25000	28000	30000	
			W	5280	5860	7330	8206	8792	
NOMINAL HEATING CAPACITY			Btu/h	18500	20000	25000	28000	31000	
			W	5420	5860	7330	8206	9085	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>	COOLING	W	1900	1931	2602	2954	2580 <2533>	
		HEATING	W	1730	1943	2522	2668	2480 <2430>	
	EER- 1Ø <3Ø>	W/W	2.78	3.03	2.82	2.78	3.14 <3.47>		
	COP- 1Ø <3Ø>	W/W	3.13	3.02	2.91	3.08	3.66 <3.74>		
60 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>	COOLING	W	-	-	-	-	2570	
		HEATING	W	-	-	-	-	2998	
	EER- 1Ø <3Ø>	W/W	-	-	-	-	3.42		
	COP- 1Ø <3Ø>	W/W	-	-	-	-	3.03		
COOLING ONLY MODEL		INDOOR UNIT		MCK 020A		MCK 025A	MCK 030A		
		OUTDOOR UNIT		MLC 018C	MLC 020C	MLC 025C	MLC 028C	MLC 030C	
NOMINAL CAPACITY			Btu/h	20000	25000	28000	29000		
			W	5280	5860	7330	8206	8793	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		W	1900	1931	2602	2954	2710 <3460>	
	EER- 1Ø <3Ø>	W/W	2.78	3.03	2.82	2.78	3.24 <2.54>		
60 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		W	-	-	-	-	3208	
	EER- 1Ø <3Ø>	W/W	-	-	-	-	2.74		
POWER SOURCE- 1Ø <3Ø>			V/Ph/Hz	220 - 240 / 1 / 50			220 - 240 / 1 / 50 <380 - 415 / 3 / 50>		
INDOOR UNIT	AIR FLOW	HIGH	CFM / L/s	349 / 740		368 / 780		415 / 880	
		MEDIUM	CFM / L/s	297 / 630		311 / 660		349 / 740	
		LOW	CFM / L/s	283 / 600		283 / 600		321 / 680	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	42 / 39 / 37		45 / 42 / 40		49 / 45 / 43	
UNIT DIMENSION ( ) - WITH PANEL	HEIGHT	mm/in	335 (363) / 13.2 (14.3)						
	WIDTH	mm/in	820 (930) / 32.2 (36.6)						
	DEPTH	mm/in	820 (930) / 32.2 (36.6)						
UNIT WEIGHT		kg/lb	31 + 4 / 68.3 + 8.8		32 + 4 / 70.5 + 8.8		35 + 4 / 77.2 + 8.8		
SOUND PRESSURE LEVEL			dBA	51	51	52	54	58	
OUTDOOR UNIT	UNIT DIMENSION	HEIGHT	mm/in	654 / 25.7		756 / 29.8		850 / 33.46	
		WIDTH	mm/in	855 / 33.7		855 / 33.7		1030 / 40.55	
		DEPTH	mm/in	328 / 12.9		328 / 12.9		400 / 15.75	
	UNIT WEIGHT		kg/lb	58 / 127.9		59 / 130.1		62 / 136.7	68 / 149.9
PIPE CONNECTION		TYPE		FLARE VALVE					
		SIZE	LIQUID	mm/in	9.52 / 3/8		9.52 / 3/8		
			GAS	mm/in	15.88 / 5/8		15.88 / 5/8		

CEILING CASSETTE MCK-A SERIES - R22

HEAT PUMP MODEL		INDOOR UNIT		MCK 040AR		MCK 050AR	
		OUTDOOR UNIT		MLC 035CR	MLC 040CR	MLC 050CR	
NOMINAL COOLING CAPACITY			Btu/h	34000	39500	48000	
			W	9964	11569	14067	
NOMINAL HEATING CAPACITY			Btu/h	34000	41000	50000	
			W	9964	12016	14654	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>	COOLING	W	3039	3506 <3476>		<4450>
		HEATING	W	2980	3346 <3316>		<4170>
	EER- 1Ø <3Ø>	W/W	3.28	3.30 <3.33>		<3.16>	
	COP- 1Ø <3Ø>	W/W	3.34	3.59 <3.63>		<3.51>	
60 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>	COOLING	W	3039	3140		3940
		HEATING	W	2980	3548		3999
	EER- 1Ø <3Ø>	W/W	3.28	3.68		3.57	
	COP- 1Ø <3Ø>	W/W	3.34	3.39		3.66	
COOLING ONLY MODEL		INDOOR UNIT		MCK 040A		MCK 050A	
		OUTDOOR UNIT		MLC 035C	MLC 040C	MLC 050C	
NOMINAL CAPACITY			Btu/h	34000	39500	48500	
			W	9960	11570	14200	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		W	3120	3330 <3300>		<4440>
	EER- 1Ø <3Ø>	W/W	3.19	3.47 <3.51>		<3.20>	
60 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		W	3120	3698		4539
	EER- 1Ø <3Ø>	W/W	3.19	3.13		3.13	
POWER SOURCE- 1Ø <3Ø>			V/Ph/Hz	220 - 240 / 1 / 50 <380 - 415 / 3 / 50>			
INDOOR UNIT	AIR FLOW	HIGH	CFM / L/s	467 / 990		491 / 1040	
		MEDIUM	CFM / L/s	406 / 860		448 / 950	
		LOW	CFM / L/s	359 / 760		411 / 870	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	51 / 48 / 46			53 / 52 / 50
UNIT DIMENSION ( ) - WITH PANEL	HEIGHT	mm/in	335 (363) / 13.2 (14.3)				
	WIDTH	mm/in	820 (930) / 32.2 (36.6)				
	DEPTH	mm/in	820 (930) / 32.2 (36.6)				
UNIT WEIGHT		kg/lb	38 + 4 / 83.8 + 8.8		40 + 4 / 88.2 + 8.8		
SOUND PRESSURE LEVEL			dBA	58	58	58	
OUTDOOR UNIT	UNIT DIMENSION	HEIGHT	mm/in	850 / 33.46		850 / 33.46	
		WIDTH	mm/in	1030 / 40.55		1030 / 40.55	
		DEPTH	mm/in	400 / 15.75		400 / 15.75	
	UNIT WEIGHT		kg/lb	95 / 209.4		105 / 231.5	
PIPE CONNECTION		TYPE		FLARE VALVE			
		SIZE	LIQUID	mm/in	9.52 / 3/8		9.52 / 3/8
			GAS	mm/in	19.05 / 3/4		19.05 / 3/4

- 1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
- 2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.
- 3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
  - a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
  - b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
- 4) FOR MCK 020/025 A/A/R, SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.  
 FOR MCK 030/040/050 A/A/R, SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW FASCIA.

CEILING CASSETTE MCK-C SERIES - R22

HEAT PUMP MODEL			INDOOR UNIT	MCK 010CR	MCK 015CR	MCK 020CR		
			OUTDOOR UNIT	MLC 010CR	MLC 015CR	MLC 018CR	MLC 020CR	
NOMINAL COOLING CAPACITY			Btu/h	9500	12500	18000	19000	
			W	2780	3660	5280	5570	
NOMINAL HEATING CAPACITY			Btu/h	9500	12500	18400	19500	
			W	2780	3660	5390	5720	
50 Hz	NOMINAL TOTAL INPUT POWER	COOLING	W	889	1206	1840	1832	
		HEATING	W	779	1056	1680	1782	
	EER	W/W	3.13	3.03	2.87	3.04		
	COP	W/W	3.57	3.47	3.21	3.21		
COOLING ONLY MODEL			INDOOR UNIT	MCK 010C	MCK 015C	MCK 020C		
			OUTDOOR UNIT	MLC 010C	MLC 015C	MLC 018C	MLC 020C	
NOMINAL CAPACITY			Btu/h	9500	12500	18000	19000	
			W	2782	3663	5280	5570	
50 Hz	NOMINAL TOTAL INPUT POWER		W	889	1231	1840	1832	
	EER		W/W	3.13	2.98	2.87	3.04	
POWER SOURCE			V/Ph/Hz	220 - 240 / 1 / 50		220 - 240 / 1 / 50		
INDOOR UNIT	AIR FLOW	HIGH	l/s / CFM	194 / 410	194 / 410	212 / 450		
		MEDIUM	l/s / CFM	184 / 390	184 / 390	203 / 430		
		LOW	l/s / CFM	175 / 370	170 / 360	194 / 410		
	SOUND PRESSURE LEVEL (H/M/L)		dBA	44 / 43 / 42	44 / 42 / 41	47 / 46 / 44		
	UNIT DIMENSION ( ) - WITH PANEL	HEIGHT	mm/in	250 (295) / 9.8 (11.6)			250 (295) / 9.8 (11.6)	
		WIDTH	mm/in	570 (640) / 22.4 (25.2)			570 (640) / 22.4 (25.2)	
		DEPTH	mm/in	570 (640) / 22.4 (25.2)			570 (640) / 22.4 (25.2)	
UNIT WEIGHT (UNIT + PANEL)		kg/lb	22 + 2 / 48.5 + 4.4	23.2 / 50.7 + 4.4	23 + 2 / 50.7 + 4.4			
SOUND PRESSURE LEVEL		dBA	46	49	51	51		
OUTDOOR UNIT	UNIT DIMENSION	HEIGHT	mm/in	540 / 21.3		654 / 25.7		
		WIDTH	mm/in	700 / 27.6		855 / 33.7		
		DEPTH	mm/in	250 / 9.8		328 / 12.9		
	UNIT WEIGHT		kg/lb	33 / 72.8	35 / 77.2	58 / 127.9	59 / 130.1	
	PIPE CONNECTION		TYPE	FLARE VALVE			FLARE VALVE	
SIZE	LIQUID	mm/in	6.35 / 1/4		6.35 / 1/4			
	GAS	mm/in	9.52 / 3/8		12.70 / 1/2			
					15.88 / 5/8			

- 1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
- 2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.
- 3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :
  - a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
  - b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
- 4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA.

CEILING CASSETTE M5CK-A SERIES - R410A

HEATPUMP MODEL		INDOOR UNIT		M5CK 020AR	M5CK 025AR	M5CK 030AR	M5CK 040AR		M5CK 050AR	
		OUTDOOR UNIT		M5LC 020CR	M5LC 025CR	M5LC 028CR	M5LC 035CR	M5LC 040CR	M5LC 050CR	
NOMINAL COOLING CAPACITY - 1Ø <3Ø>			Btu/h	18500 <18500>	20000 <22860>	28000 <27000>	33500 <33500>	39000 <39000>	<48500>	
			W	5420 <5420>	5860 <6700>	8210 <7910>	9820 <9820>	11430 <11430>	<14210>	
NOMINAL HEATING CAPACITY - 1Ø <3Ø>			Btu/h	18500 <18500>	21500 <23200>	28000 <27000>	35000 <35000>	41000 <41000>	<49000>	
			W	5420 <5420>	6300 <6800>	8210 <7910>	10260 <10260>	12020 <12020>	<14360>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		COOLING	W	1703 <1778>	2003 <2260>	2680 <2729>	3050 <2950>	3834 <3780>	<5000>
			HEATING	W	1563 <1573>	2033 <2153>	2150 <2381>	2800 <2750>	3310 <3290>	<4580>
	EER - 1Ø <3Ø>		W/W	3.18 <3.05>	2.93 <2.96>	3.06 <2.90>	3.22 <3.33>	2.98 <3.02>	<2.84>	
	COP - 1Ø <3Ø>		W/W	3.47 <3.45>	3.10 <3.16>	3.82 <3.32>	3.66 <3.89>	3.63 <3.65>	<3.14>	
COOLING ONLY MODEL		INDOOR UNIT		M5CK 020A	M5CK 025A	M5CK 030A	M5CK 040A		M5CK 050A	
		OUTDOOR UNIT		M5LC 020C	M5LC 025C	M5LC 028C	M5LC 035C	M5LC 040C	M5LC 050C	
NOMINAL CAPACITY - 1Ø <3Ø>			Btu/h	18500 <18500>	20000 <22860>	28000 <27000>	33500 <33500>	39000 <39000>	<48500>	
			W	5420 <5420>	5860 <6700>	8210 <7910>	9820 <9820>	11430 <11430>	<14210>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		W	1703 <1778>	2003 <2260>	2680 <2729>	3050 <2950>	3834 <3780>	<5000>	
	EER - 1Ø <3Ø>		W/W	3.18 <3.05>	2.93 <2.96>	3.06 <2.90>	3.22 <3.33>	2.98 <3.02>	<2.84>	
POWER SOURCE - 1Ø <3Ø>			V/Ph/Hz	220-240/1/50 <380-415/3/50>			220-240/1/50 <380-415/3/50>			
INDOOR UNIT	AIR FLOW		HIGH	l/s / CFM	349 / 740	368 / 780	415 / 880	467 / 990	491 / 1040	
			MEDIUM	l/s / CFM	297 / 630	311 / 660	349 / 740	406 / 860	448 / 950	
			LOW	l/s / CFM	283 / 600	283 / 600	321 / 680	359 / 760	411 / 870	
	SOUND PRESSURE LEVEL (H/M/L)		dBA	42 / 39 / 37	45 / 42 / 40	49 / 45 / 43	51 / 48 / 46	53 / 52 / 50		
UNIT DIMENSION ( ) - WITH PANEL		HEIGHT	mm/in	335 (378) / 13.2 (14.9)	335 (378) / 13.2 (14.9)	335 (378) / 13.2 (14.9)	335 (378) / 13.2 (14.9)	335 (378) / 13.2 (14.9)		
		WIDTH	mm/in	820 (930) / 32.2 (36.6)	820 (930) / 32.2 (36.6)	820 (930) / 32.2 (36.6)	820 (930) / 32.2 (36.6)	820 (930) / 32.2 (36.6)		
		DEPTH	mm/in	820 (930) / 32.2 (36.6)	820 (930) / 32.2 (36.6)	820 (930) / 32.2 (36.6)	820 (930) / 32.2 (36.6)	820 (930) / 32.2 (36.6)		
WEIGHT (UNIT + PANEL)		kg/lb	31 + 4 / 68.3 + 8.8	32 + 4 / 70.5 + 8.8	35 + 4 / 77.2 + 8.8	38 + 4 / 83.8 + 8.8	40 + 4 / 88.2 + 8.8			
OUTDOOR UNIT	SOUND PRESSURE LEVEL		dBA	52	52	54	58	68		
	UNIT DIMENSION		HEIGHT	mm/in	654 / 25.7	756 / 29.8	756 / 29.8	850 / 33.46	850 / 33.46	
			WIDTH	mm/in	855 / 33.7	855 / 33.7	855 / 33.7	1030 / 40.55	1030 / 40.55	
			DEPTH	mm/in	328 / 12.9	328 / 12.9	328 / 12.9	400 / 15.75	400 / 15.75	
	UNIT WEIGHT		kg/lb	59 / 130.1	62 / 136.7	68 / 149.9	95 / 209.4	100 / 220.5	105 / 231.5	
	PIPE CONNECTION		TYPE	FLARE VALVE			FLARE VALVE		FLARE VALVE	
			SIZE	LIQUID	mm/in	6.35 / 1/4	6.35 / 1/4	9.52 / 3/8	9.52 / 3/8	9.52 / 3/8
		GAS	mm/in	12.70 / 1/2	15.88 / 5/8	15.88 / 5/8	15.88 / 5/8	15.88 / 5/8		

CEILING CASSETTE M5CK-C SERIES - R410A

HEATPUMP MODEL		INDOOR UNIT		M5CK 010CR	M5CK 015CR	M5CK 020CR	
		OUTDOOR UNIT		M5LC 010CR	M5LC 015CR	M5LC 020CR	
NOMINAL COOLING CAPACITY - 1Ø <3Ø>			Btu/h	9500	12500	17500 <18000>	
			W	2780	3660	5129 <5280>	
NOMINAL HEATING CAPACITY - 1Ø <3Ø>			Btu/h	9500	11500	17500 <18500>	
			W	2780	3370	5129 <5420>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		COOLING	W	950	1261	1690 <1724>
			HEATING	W	802	1111	1520 <1494>
	EER - 1Ø <3Ø>		W/W	2.93	2.90	3.03 <3.06>	
	COP - 1Ø <3Ø>		W/W	3.47	3.03	3.37 <3.63>	
COOLING ONLY MODEL		INDOOR UNIT		M5CK 010C	M5CK 015C	M5CK 020C	
		OUTDOOR UNIT		M5LC 010C	M5LC 015C	M5LC 020C	
NOMINAL CAPACITY - 1Ø <3Ø>			Btu/h	9500	12500	17500 <18000>	
			W	2780	3360	5129 <5280>	
50 Hz	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		W	950	1261	1690 <1724>	
	EER - 1Ø <3Ø>		W/W	2.93	2.90	3.03 <3.06>	
POWER SOURCE - 1Ø <3Ø>			V/Ph/Hz	220 - 240 / 1 / 50		220-240/1/50 <380-415/3/50>	
INDOOR UNIT	AIR FLOW		HIGH	l/s / CFM	189 / 400	194 / 410	212 / 450
			MEDIUM	l/s / CFM	184 / 390	184 / 390	203 / 430
			LOW	l/s / CFM	175 / 370	170 / 360	194 / 410
	SOUND PRESSURE LEVEL (H/M/L)		dBA	44 / 43 / 42	44 / 42 / 41	47 / 46 / 44	
UNIT DIMENSION ( ) - WITH PANEL		HEIGHT	mm/in	250 (295) / 9.8 (11.6)		250 (295) / 9.8 (11.6)	
		WIDTH	mm/in	570 (640) / 22.4 (25.2)		570 (640) / 22.4 (25.2)	
		DEPTH	mm/in	570 (640) / 22.4 (25.2)		570 (640) / 22.4 (25.2)	
UNIT WEIGHT (UNIT + PANEL)		kg/lb	22 + 2 / 48.5 + 4.4		23.2 / 50.7 + 4.4	23 + 2 / 50.7 + 4.4	
OUTDOOR UNIT	SOUND PRESSURE LEVEL		dBA	46	49	52	
	UNIT DIMENSION		HEIGHT	mm/in	540 / 21.3		654 / 25.7
			WIDTH	mm/in	700 / 27.6		855 / 33.7
			DEPTH	mm/in	250 / 9.8		328 / 12.9
	UNIT WEIGHT		kg/lb	31 / 72.75		35 / 77.16	59 / 130.1
PIPE CONNECTION		TYPE	FLARE VALVE			FLARE VALVE	
		SIZE	LIQUID	mm/in	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4
		GAS	mm/in	9.52 / 3/8	12.70 / 1/2	12.70 / 1/2	

- 1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
- 2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.
- 3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW:
  - a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR
  - b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR
- 4) FOR M5CK 020/025 A/AR & M5CK-C SERIES, SOUND PRESSURE LEVEL ARE ACCORDING TO JIS C 9612 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.4m BELOW FASCIA. FOR M5CK 030/040/050 A/AR, SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW FASCIA.

Products manufactured in an ISO certified facility.

This document contains the most current product information as of this printing.  
For the most up-to-date product information, please go to [www.mcquay.com](http://www.mcquay.com).

