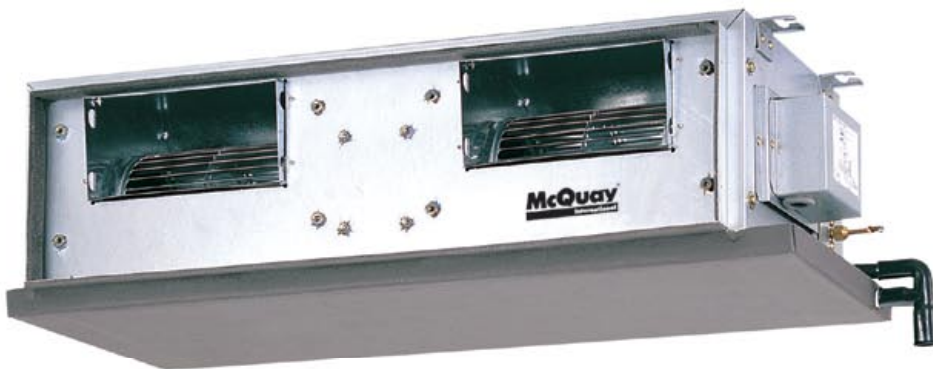


# Ceiling Concealed Split System C Series



*Engineered for flexibility and performance.™*

# features:

## • *Microprocessor Controlled*

With the microprocessor controlling the operation, the MCC model can offer comfortable room conditions according to the needs of the user. In addition, its control algorithms provide protection to components of the air conditioning unit against any faults.

## • *Auto Random Restart*

During occasion of power failure, the unit will automatically restart according to the last setting condition when power resumed. Option is provided to cancel this feature.

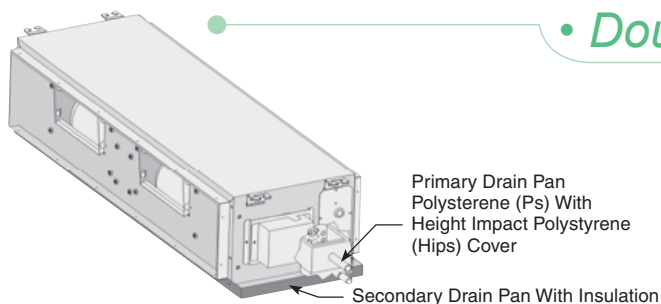
## • *Flexibility In System Design*

The unit offers fan motor that can operate up to 4 speeds (Models M5CC028C & above only), thus provide choices of external static pressure for designing ducting system. In addition, a range of MCC-C model with optional specification of low external static pressure is also provided to cater for short duct application. Please refer to the technical specification of MCC model.

## • *Self Diagnosis Features*

The microprocessor provides the possibility to detect and to diagnose any faults that occur in the system. Faults are displayed as error code in the wired controller. This will ease the troubleshooting process

## • *Double Protection Drainage System*

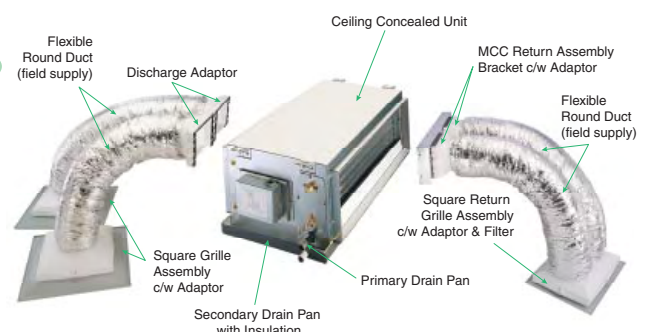


The primary drain pan is designed with high thermal insulation material and moulded in gradient for better condensate water drainage. The extra secondary drain pan "built in" to the standard unit offers extra protection against possible water leaking problems.

## • *Duct Accessories (Optional)*

A set duct accessories specifically designed to fit and to suit the MCC-C model is being created. Thus offers a one stop solution to installing the unit.

\* Available for MCC 010-025 C/CR only



## • NIM – Able

The MCC 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



SLM 3



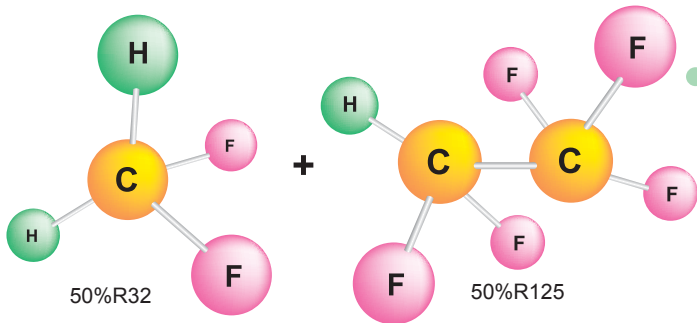
AC-5300 Wireless Controller (Optional)



NetWare III Controller (Optional)

Standard units come with a simple and user friendly SLM 3. An optional specification of MCC-C series is also available that comes with Netware III, which offers wide range of control features that includes 7 days and 24 hours timer settings, self diagnosis error code display and more.

In addition, an innovative and compact wireless controller (credit card size), AC-5300 provides wireless command to the SLM 3 & NETWORK III.



## • R-410A Refrigerant

In line with Montreal Protocol M5CC series utilise the new R-410A refrigerant.

## • Better Air Distribution

The conditioned air can be effectively distributed to the room through the ducting and this ensures a pleasant environment for comfortable living. Multiple rooms can be cooled together at the same time by using just one unit of fan coil.





CEILING CONCEALED MCC-C SERIES - R-22

HEAT PUMP MODEL		INDOOR UNIT		MCC 040CR		MCC 050CR	MCC 060CR
		OUTDOOR UNIT		MLC 035CR	MLC 040CR	MLC 050CR	MLC 061CR
NOMINAL COOLING CAPACITY		Btu/h		33500	40000	50000	56000
		W		9818	11723	14654	16410
NOMINAL HEATING CAPACITY		Btu/h		35000	40000	53000	56000
		W		10257	11723	15533	16410
50 HZ	NOMINAL TOTAL INPUT POWER (STANDARD) - 1Ø <3Ø>	COOLING	W	3265	3728 <3698>	<5047>	<6010>
		HEATING	W	3265	3438 <3408>	<4447>	<4980>
	NOMINAL TOTAL INPUT POWER (LOW STATIC) - 1Ø <3Ø>	COOLING	W	3210	3673 <3643>	4956	5884
		HEATING	W	3210	3183 <3153>	4356	4854
	EER (STANDARD)- 1Ø <3Ø>	W/W		3.30	3.41 <3.44>	<3.11>	<2.91>
	COP (STANDARD)- 1Ø <3Ø>	W/W		3.45	3.73 <3.76>	<3.78>	<3.57>
	EER (LOW STATIC)- 1Ø <3Ø>	W/W		3.12	3.25 <3.28>	3.03	2.85
	COP (LOW STATIC)- 1Ø <3Ø>	W/W		3.26	3.53 <3.57>	3.67	3.46
60 HZ	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>	COOLING	W	-	3100	4160	5550
		HEATING	W	-	3800	4623	5937
	EER- 1Ø <3Ø>	W/W		-	3.78	3.52	2.96
	COP- 1Ø <3Ø>	W/W		-	3.09	3.36	2.76
COOLING ONLY MODEL		INDOOR UNIT		MCC 040C		MCC 050C	MCC 060C
		OUTDOOR UNIT		MLC 035C	MLC 040C	MLC 050C	MLC 061C
NOMINAL CAPACITY		Btu/h		33500	38500	47000	56000
		W		9811	11276	13765	16410
50 HZ	NOMINAL TOTAL INPUT POWER (STANDARD) - 1Ø <3Ø>		W	3405	3555 <3505 >	<4974 >	<6006 >
	NOMINAL TOTAL INPUT POWER (LOW STATIC)- 1Ø <3Ø>		W	3350	3500 <3450>	4883	5880
	EER (STANDARD)- 1Ø <3Ø>	W/W		3.16	3.46 <3.51 >	<2.97 >	<2.92>
	EER (LOW STATIC)- 1Ø <3Ø>	W/W		2.99	3.28 <3.33>	<2.9 >	<2.85 >
60 HZ	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		W	-	4110	5233	6837
	EER- 1Ø <3Ø>		W/W	-	2.74	2.63	2.40
POWER SOURCE- 1Ø <3Ø>		V/Ph/Hz		220 - 240 / 1 / 50 <380 - 415 / 3 / 50>			
INDOOR UNIT	AIR FLOW	SUPER HIGH	I/s / CFM	519 / 1100		750 / 1590	779 / 1650
		HIGH	I/s / CFM	500 / 1060		651 / 1380	722 / 1530
		MEDIUM	I/s / CFM	467 / 990		604 / 1280	675 / 1430
		LOW	I/s / CFM	425 / 900		571 / 1210	609 / 1290
	AIR FLOW (LOW STATIC)	SUPER HIGH	I/s / CFM	562 / 1190		713 / 1510	802 / 1700
		HIGH	I/s / CFM	500 / 1060		628 / 1330	765 / 1620
		MEDIUM	I/s / CFM	472 / 1000		618 / 1310	717 / 1520
		LOW	I/s / CFM	458 / 970		599 / 1270	693 / 1470
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)	206 / 176 / 127 / 93 (0.83 / 0.71 / 0.51 / 0.37)		176 / 157 / 137 / 108 (0.71 / 0.63 / 0.55 / 0.43)	176 / 157 / 137 / 98 (0.71 / 0.63 / 0.55 / 0.39)
	EXTERNAL STATIC PRESSURE (LOW STATIC, H/M/L)		Pa (in.wg.)	49 / 39 / 29 / 20 (0.20 / 0.16 / 0.12 / 0.08)		78 / 59 / 39 / 20 (0.31 / 0.24 / 0.16 / 0.08)	69 / 49 / 29 / 20 (0.28 / 0.20 / 0.12 / 0.08)
	SOUND PRESSURE LEVEL (H/M/L)		dBA	51 / 49 / 45 / 41		53 / 52 / 50 / 47	55 / 53 / 50 / 47
	UNIT DIMENSION	HEIGHT	mm/in	378 / 14.88		378 / 14.88	378 / 14.88
WIDTH		mm/in	1045 / 41.14		1299 / 51.14	1499 / 59.02	
DEPTH		mm/in	541 / 21.30		541 / 21.30	541 / 21.30	
WEIGHT		kg/lb	42 / 92.6		54 / 119.1	62 / 163.7	
OUTDOOR UNIT	SOUND PRESSURE LEVEL		dBA	58	58	58	61
	UNIT DIMENSION	HEIGHT	mm/in	850 / 33.46		850 / 33.46	850 / 33.46
		WIDTH	mm/in	1030 / 40.55		1030 / 40.55	1030 / 40.55
		DEPTH	mm/in	400 / 15.75		400 / 15.75	460 / 18.1
	UNIT WEIGHT		kg/lb	95 / 209.4	100 / 220.5	105 / 231.49	108 / 238.10
	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	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) SOUND PRESSURE LEVEL ARE MEASURED IN AN ANECHOIC CHAMBER, ACCORDING TO JIS B 8616 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW THE CENTER OF THE UNIT.

CEILING CONCEALED M5CC-C SERIES - R-410A

HEATPUMP MODEL		INDOOR UNIT		M5CC 010CR		M5CC 015CR		M5CC 020CR		M5CC 025CR		
		OUTDOOR UNIT		M5LC 010CR		M5LC 015CR		M5LC 020CR		M5LC 025CR		
NOMINAL COOLING CAPACITY - 1Ø <3Ø>		Btu/h		9500		12500		18000 <18000>		21000 <22860>		
		W		2780		3660		5280 <5280>		6155 <6700>		
NOMINAL HEATING CAPACITY - 1Ø <3Ø>		Btu/h		9500		12000		18500 <18500>		22000 <23200>		
		W		2780		3520		5420 <5420>		6450 <6800>		
50 HZ	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		COOLING		961		1297		1757 <1791>		2003 <2274>	
			HEATING		813		1147		1597 <1561>		1953 <2167>	
	EER - 1Ø <3Ø>		W/W		2.96		2.91		3.13 <3.07>		3.15 <3.02>	
	COP - 1Ø <3Ø>		W/W		3.52		3.18		3.55 <3.64>		3.39 <3.22>	
COOLING ONLY MODEL		INDOOR UNIT		M5CC 010C		M5CC 015C		M5CC 020C		M5CC 025C		
		OUTDOOR UNIT		M5LC 010C		M5LC 015C		M5LC 020C		M5LC 025C		
NOMINAL CAPACITY - 1Ø <3Ø>		Btu/h		9500		12500		18000 <18000>		21000 <22860>		
		W		2780		3660		5280 <5280>		6155 <6700>		
50 HZ	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		W		961		1297		1757 <1791>		2003 <2274>	
			EER - 1Ø <3Ø>		W/W		2.96		2.91		3.13 <3.07>	
POWER SOURCE - 1Ø <3Ø>		V/Ph/Hz		220 - 240 / 1 / 50				220-240/1/50 <380-415/3/50>				
INDOOR UNIT	AIR FLOW		HIGH		142 / 300		241 / 510		330 / 700		345 / 730	
			MEDIUM		123 / 260		208 / 440		321 / 680		340 / 720	
			LOW		104 / 220		170 / 360		293 / 620		274 / 580	
	EXTERNAL STATIC PRESSURE (H/M/L)		Pa (in.wg.)		49 / 39 / 29 (0.20 / 0.16 / 0.12)		49 / 39 / 20 (0.20 / 0.16 / 0.08)		64 / 58 / 34 (0.30 / 0.20 / 0.10)		55 / 39 / 29 (0.20 / 0.20 / 0.10)	
SOUND PRESSURE LEVEL (H/M/L)		dBA		33 / 30 / 26		37 / 34 / 29		38 / 36 / 34		40 / 39 / 36		
UNIT DIMENSION		HEIGHT		261 / 10.28		261 / 10.28		261 / 10.28		261 / 10.28		
		WIDTH		765 / 30.12		905 / 35.63		1065 / 41.93		1200 / 47.24		
		DEPTH		411 / 16.18		411 / 16.18		411 / 16.18		411 / 16.18		
WEIGHT		kg/lb		17 / 37.5		21 / 46.3		22 / 48.5		25 / 55.1		
SOUND PRESSURE LEVEL		dBA		46		49		52		52		
OUTDOOR UNIT	UNIT DIMENSION		HEIGHT		mm/in		540 / 21.3		654 / 25.7		756 / 29.8	
			WIDTH		mm/in		700 / 27.6		855 / 33.7		855 / 33.7	
			DEPTH		mm/in		250 / 9.8		328 / 12.9		328 / 12.9	
	UNIT WEIGHT		kg/lb		32 / 70.5		59 / 130.1		62 / 136.7		62 / 136.7	
PIPE CONNECTION		TYPE		FLARE VALVE		FLARE VALVE		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		12.70 / 1/2		
								12.70 / 1/2		15.88 / 5/8		

HEATPUMP MODEL		INDOOR UNIT		M5CC 028CR		M5CC 038CR		M5CC 050CR		M5CC 060CR		
		OUTDOOR UNIT		M5LC 028CR		M5LC 035CR		M5LC 040CR		M5LC 050CR		
NOMINAL COOLING CAPACITY - 1Ø <3Ø>		Btu/h		26000 <27000>		32000 <33000>		<39000>		<48000>		
		W		7620 <7910>		9380 <9670>		<11430>		<14070>		
NOMINAL HEATING CAPACITY - 1Ø <3Ø>		Btu/h		26000 <28000>		34000 <36000>		<42000>		<49000>		
		W		7620 <8210>		9960 <10550>		<12310>		<14360>		
50 HZ	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		COOLING		2892 <2876>		3287 <3427>		<4173>		<5115>	
			HEATING		2429 <2528>		2987 <3137>		<4203>		<4535>	
	EER - 1Ø <3Ø>		W/W		2.73 <2.85>		3.07 <3.03>		<2.88>		<2.94>	
	COP - 1Ø <3Ø>		W/W		3.27 <3.38>		3.62 <3.64>		<3.08>		<3.42>	
COOLING ONLY MODEL		INDOOR UNIT		M5CC 028C		M5CC 038C		M5CC 050C		M5CC 060C		
		OUTDOOR UNIT		M5LC 028C		M5LC 035C		M5LC 040C		M5LC 050C		
NOMINAL CAPACITY - 1Ø <3Ø>		Btu/h		26000 <27000>		32000 <33000>		<39000>		<48000>		
		W		7620 <7910>		9380 <9670>		<11430>		<14070>		
50 HZ	NOMINAL TOTAL INPUT POWER - 1Ø <3Ø>		W		2892 <2876>		3287 <3427>		<4173>		<5115>	
			EER - 1Ø <3Ø>		W/W		2.73 <2.85>		3.07 <3.03>		<2.88>	
POWER SOURCE - 1Ø <3Ø>		V/Ph/Hz		220-240/1/50 <380-415/3/50>								
INDOOR UNIT	AIR FLOW		SUPER HIGH		401 / 850		604 / 1280		675 / 1430		812 / 1720	
			HIGH		382 / 810		547 / 1160		623 / 1320		732 / 1550	
			MEDIUM		363 / 770		496 / 1050		580 / 1230		632 / 1340	
			LOW		335 / 710		434 / 920		533 / 1130		552 / 1170	
EXTERNAL STATIC PRESSURE (SH/H/M/L)		Pa (in.wg.)		98 / 78 / 68 / 59 (0.39 / 0.31 / 0.28 / 0.24)		118 / 96 / 78 / 61 (0.47 / 0.39 / 0.31 / 0.24)		147 / 126 / 109 / 92 (0.59 / 0.50 / 0.44 / 0.37)		147 / 120 / 90 / 69 (0.59 / 0.48 / 0.36 / 0.28)		
SOUND PRESSURE LEVEL (SH/H/M/L)		dBA		44 / 41 / 38 / 34		52 / 49 / 48 / 45		54 / 53 / 52 / 51		54 / 52 / 50 / 46		
UNIT DIMENSION		HEIGHT		285 / 11.22		305 / 12.0		378 / 14.9		378 / 14.9		
		WIDTH		1007 / 39.65		1302 / 51.3		1299 / 51.1		1499 / 59.0		
		DEPTH		600 / 23.62		638 / 25.1		541 / 21.3		541 / 21.3		
WEIGHT		kg/lb		38 / 84		41 / 90		54 / 119		62 / 137		
SOUND PRESSURE LEVEL		dBA		54		58		68		65		
OUTDOOR UNIT	UNIT DIMENSION		HEIGHT		mm/in		756 / 29.8		850 / 33.46		850 / 33.46	
			WIDTH		mm/in		855 / 33.7		1030 / 40.55		1030 / 40.55	
			DEPTH		mm/in		328 / 12.9		400 / 15.75		400 / 15.75	
	UNIT WEIGHT		kg/lb		68 / 149.9		95 / 209.4		100 / 220.5		105 / 231.5	
PIPE CONNECTION		TYPE		FLARE VALVE		FLARE VALVE		FLARE VALVE		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		15.88 / 5/8		
										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) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8616 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1.5m BELOW THE CENTER OF THE UNIT. TESTED WITH 2m DUCT LENGTH AT THE AIR DISCHARGE OUTLET AND 1m DUCT LENGTH AT THE AIR RETURN INLET.
- 5) EER/COP CALCULATION IS BASED ON EFFECTIVE POWER INPUT AS PER ISO 5151.

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).

