

SPECIFICATIONS

CEILING CONCEALED HEAT PUMP MODELS

MODEL		INDOOR UNIT	MCC 010CR	MCC 015CR	MCC 020CR	MCC 025CR	
		OUTDOOR UNIT	MLC 010BR	MLC 015BR	MLC 020BR	MLC 025BR	
NOMINAL COOLING CAPACITY		kcal/h	2394	3200	4788	5796	
		W	2784	3722	5569	6741	
NOMINAL HEATING CAPACITY		kcal/h	2394	3276	4990	6300	
		W	2784	3810	5803	7327	
		Btu/h	9500	13000	19800	25000	
POWER SOURCE		V/Ph/Hz	220 - 240 / 1 / 50, 208 - 230 / 1 / 60				
REFRIGERANT / CONTROL			R22 / CAPILLARY TUBE IN OUTDOOR				
FAN	AIR FLOW	cfm/cmm	300 / 8.50	430 / 12.2	620 / 17.0	840 / 23.8	
	STATIC PRESSURE	mm Aq	5	5	5	5	
	FAN MOTOR	50 Hz		4 POLES x 22W	4 POLES x 30W	4 POLES x 55W	4 POLES x 100W
		60 Hz		4 POLES x 30W	4 POLES x 50W	4 POLES x 80W	4 POLES x 100W
	RATED INPUT POWER	W (50/60Hz)	71 / 72	102 / 114	148 / 174	180 / 223	
	RATED RUNNING CURRENT	A (50/60Hz)	0.30 / 0.33	0.43 / 0.53	0.65 / 0.80	0.77 / 1.01	
COIL	TUBE	MATERIAL	SEAMLESS COPPER				
		DIAMETER	mm/in 9.52 / 3/8				
	THICKNESS	mm/in 0.35 / 0.014					
	FIN	MATERIAL	ALUMINIUM				
		THICKNESS	mm/in 0.11 / 0.0043				
	ROW		3	3	3	3	
	FIN PER INCH		12	14	12	12	
	FACE AREA	m ² /ft ²	0.115 / 1.238	0.143 / 1.542	0.176 / 1.892	0.203 / 2.187	
	DIMENSION	HEIGHT	mm/in	261 / 10.28	261 / 10.28	261 / 10.28	261 / 10.28
		WIDTH	mm/in	765 / 30.12	905 / 35.63	1065 / 41.93	1200 / 47.24
DEPTH		mm/in	411 / 16.18	411 / 16.18	411 / 16.18	411 / 16.18	
WEIGHT	kg	17	21	22	25		
SOUND PRESSURE LEVEL	dBA	39 / 37 / 33	41 / 38 / 33	44 / 43 / 40	46 / 44 / 41		
CONTROL	ROOM TEMPERATURE OPERATION		MICROCOMPUTER CONTROLLED THERMOSTAT SLM WIRED HANDSET (OPTIONAL AC5300 REMOTE CONTROLLER)				
CONDENSATE DRAIN SIZE	mm/in	19.05 / 3/4					
AIR FILTER		WASHABLE SARAN NET (OPTIONAL)					
PACKING DIMENSION	HEIGHT	mm/in	410 / 16.14	410 / 16.14	410 / 16.14	410 / 16.14	
	WIDTH	mm/in	951 / 37.44	1091 / 42.95	1251 / 49.25	1386 / 54.57	
	DEPTH	mm/in	535 / 21.06	535 / 21.06	535 / 21.06	535 / 21.06	
POWER SOURCE		V/Ph/Hz	220 - 240 / 1 / 50 / < 380 - 415 / 3 / 50 >				
		V/Ph/Hz	208 - 230 / 1 / 60				
COMPRESSOR	COMPRESSOR TYPE		ROTARY HERMETIC				
	CAPACITOR - μF	50 Hz	30	30	45 / < NIL >	45 / < NIL >	
		1Ø / < 3Ø >		-	-	40	60
	LOCK ROTOR AMP. - A	50 Hz	20	25	56 / < 21.4 >	57 / < 24.9 >	
		1Ø / < 3Ø >		-	-	39,6	50,0
	RATED RUNNING CURRENT (COOLING) - A	50 Hz	3,7	5,6	9,8 / < 3,7 >	13,0 / < 4,8 >	
		1Ø / < 3Ø >		-	-	8,3	11,6
	RATED RUNNING CURRENT (HEATING) - A	50 Hz	3,0	5,3	9,8 / < 3,7 >	12,7 / < 4,9 >	
		1Ø / < 3Ø >		-	-	8,7	11,4
	RATED INPUT POWER (COOLING) - W	50 Hz	828	1236	1987 / < 1950 >	2730 / < 2560 >	
		1Ø / < 3Ø >		-	-	1777	2486
	RATED INPUT POWER (HEATING) - W	50 Hz	681	1169	2008 / < 1960 >	2650 / < 2640 >	
1Ø / < 3Ø >			-	-	1824	2420	
PROTECTION DEVICE		OVERLOAD PROTECTION					
FAN TYPE / DRIVE		PROPELLER / DIRECT					
BLADE MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN					
DIAMETER	mm/in	355 / 14.0		420 / 16.5			
RATED RUNNING CURRENT	A (50/60Hz)	0.28 / 0.33		0.56 / 0.76			
RATED OUTPUT POWER	W (50/60Hz)	30 / 30		55 / 55			
RATED INPUT POWER	W (50/60Hz)	62 / 68		133 / 165			
COIL	TUBE	MATERIAL	S.I.G.C	S.I.G.C	S.B.C.	S.I.G.C	
		DIAMETER	mm/in 9.52 / 3/8				
	THICKNESS	mm/in 0.35 / 0.014					
	FIN	MATERIAL	ALUMINIUM				
		THICKNESS	mm/in 0.127 / 0.005				
	ROW		1	1	2	2	
FIN PER INCH		19	19	14	14		
FACE AREA	m ² /ft ²	0.32 / 3.5		0.51 / 5.53			
DIMENSION	HEIGHT	mm/in	494 / 19.4	646 / 25.4			
	WIDTH	mm/in	740 / 29.1	840 / 33.1			
	DEPTH	mm/in	270 / 10.6	330 / 13.0			
WEIGHT	kg	31	34	57	58		
CASING	MATERIAL	GALVANISED MILD STEEL					
	THICKNESS	mm/in	0.8 / 0.031				
	FINISHING		POLYESTER POWDER				
SOUND PRESSURE LEVEL	dBA	48	49	52	53		
PIPE	TYPE		FLARE VALVE				
	SIZE						
PACKING DIMENSION	LIQUID	mm/in	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4	9.52 / 3/8	
		mm/in	9.52 / 3/8	12.70 / 1/2	15.88 / 5/8	15.88 / 5/8	
	GAS	mm/in	558 / 22.0	710 / 28.0			
		mm/in	851 / 33.5	957 / 37.7			
DEPTH	mm/in	401 / 15.8	461 / 18.1				

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI 210/240-89

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

- COOLING - 26.7°C DB / 19.4°C WB INDOOR AND 35°C DB OUTDOOR
- HEATING - 21.1°C DB / 15.6°C WB INDOOR AND 8.3°C DB / 6.1°C WB OUTDOOR

4) ALLOWABLE OPERATING RANGE

- COOLING - 19.4°C DB / 13.9°C WB INDOOR AND 19.4°C DB OUTDOOR TO 26.7°C DB / 19.4°C WB INDOOR AND 46.1°C DB OUTDOOR
- HEATING - 21.0°C DB INDOOR AND -8.3°C DB / -9.4°C WB OUTDOOR TO 26.7°C DB INDOOR AND 23.9°C DB / 18.3°C WB

SPECIFICATIONS

CEILING CONCEALED COOLING ONLY MODELS

MODEL		INDOOR UNIT	MCC 010C	MCC 015C	MCC 020C	MCC 025C	
		OUTDOOR UNIT	MLC 010B	MLC 015B	MLC 020B	MLC 025B	
NOMINAL COOLING CAPACITY		kcal/h	2444	3200	4914	6300	
		W	2843	3722	5715	7327	
		Btu/h	9700	12700	19500	25000	
POWER SOURCE		V/Ph/Hz	220 - 240 / 1 / 50, 208 - 230 / 1 / 60				
REFRIGERANT / CONTROL			R22 / CAPILLARY TUBE IN OUTDOOR				
FAN	AIR FLOW	cfm/cmm	300 / 8.50	430 / 12.2	620 / 17.0	840 / 23.8	
	STATIC PRESSURE	mm Aq	5	5	5	5	
	FAN MOTOR	50 Hz		4 POLES x 22W	4 POLES x 30W	4 POLES x 55W	4 POLES x 100W
		60 Hz		4 POLES x 30W	4 POLES x 50W	4 POLES x 80W	4 POLES x 100W
	RATED INPUT POWER	W (50/60Hz)	71 / 72	102 / 114	148 / 172	180 / 223	
	RATED RUNNING CURRENT	A (50/60Hz)	0.30 / 0.33	0.43 / 0.53	0.65 / 0.80	0.77 / 1.01	
COIL	SEAMLESS COPPER						
	MATERIAL						
	DIAMETER	mm/in	9.52 / 3/8				
	THICKNESS	mm/in	0.35 / 0.014				
	ALUMINIUM						
	THICKNESS	mm/in	0.11 / 0.0043				
FIN	ROW		3	3	3	3	
	FIN PER INCH		12	14	12	12	
FACE AREA	m ² /ft ²	0.115 / 1.238	0.143 / 1.542	0.176 / 1.892	0.203 / 2.187		
DIMENSION	HEIGHT	mm/in	261 / 10.28	261 / 10.28	261 / 10.28	261 / 10.28	
	WIDTH	mm/in	765 / 30.12	905 / 35.63	1065 / 41.93	1200 / 47.24	
	DEPTH	mm/in	411 / 16.18	411 / 16.18	411 / 16.18	411 / 16.18	
SOUND PRESSURE LEVEL (H / M / L)	dBA	39 / 37 / 33	41 / 38 / 33	44 / 43 / 40	46 / 44 / 41		
WEIGHT	kg	17	21	22	25		
CONTROL	ROOM TEMPERATURE OPERATION		MICROCOMPUTER CONTROLLED THERMOSTAT				
			SLM WIRED HANDSET (OPTIONAL AC5300 REMOTE CONTROLLER)				
CONDENSATE DRAIN SIZE	mm/in	19.05 / 3/4					
AIR FILTER		WASHABLE SARAN NET (OPTIONAL)					
PACKING DIMENSION	HEIGHT	mm/in	410 / 16.14	410 / 16.14	410 / 16.14	410 / 16.14	
	WIDTH	mm/in	951 / 37.44	1091 / 42.95	1251 / 49.25	1386 / 54.57	
	DEPTH	mm/in	535 / 21.06	535 / 21.06	535 / 21.06	535 / 21.06	
POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50 / < 380 - 415 / 3 / 50 >					
	V/Ph/Hz	208 - 230 / 1 / 60					
COMPRESSOR	COMPRESSOR TYPE		ROTARY HERMETIC			ROT. (RECIP.)	
	CAPACITOR (µF)	50 Hz	30	30	45 / < NIL >	45 (45) / < NIL >	
		60 Hz	30	30	40	(35)	
	LOCK ROTOR AMP. (A)	50 Hz	20	25	56 / < 21.4 >	56.5 (68) / < 24.9 >	
		60 Hz	26	33	37	(70)	
	RATED RUNNING CURRENT (A)	50 Hz	3.6	5.8	10.0 / < 3.7 >	13.8 (10.5) / < 4.8 >	
		60 Hz	3.9	4.9	8.8	(12.3)	
	RATED INPUT POWER (W)	50 Hz	812	1277	2080 / < 1950 >	2710 (2250) / < 2560 >	
60 Hz		843	1055	1909	(2635)		
PROTECTION DEVICE		OVERLOAD PROTECTION					
FAN TYPE / DRIVE		PROPELLER / DIRECT					
BLADE MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN					
FAN	DIAMETER	mm/in	355 / 14.0		420 / 16.5		
	RATED RUNNING CURRENT	A (50/60Hz)	0.20 / 0.33	0.28 / 0.33	0.56 / 0.76		
	RATED OUTPUT POWER	W (50/60Hz)	20 / 30	30 / 30	55 / 55		
	RATED INPUT POWER	W (50/60Hz)	50 / 68	62 / 68	133 / 165		
COIL	S.I.G.C						
	MATERIAL		S.I.G.C			S.B.C.	
	DIAMETER	mm/in	9.52 / 3/8				
	THICKNESS	mm/in	0.35 / 0.014				
	ALUMINIUM (SLIT TYPE)						
	THICKNESS	mm/in	0.127 / 0.005				
FIN	ROW		1	1	2	2	
	FIN PER INCH		18	19	14	14	
FACE AREA	m ² /ft ²	0.32 / 3.5		0.51 / 5.53			
DIMENSION	HEIGHT	mm/in	494 / 19.4		646 / 25.4		
	WIDTH	mm/in	740 / 29.1		840 / 33.1		
	DEPTH	mm/in	270 / 10.6		330 / 13.0		
WEIGHT	kg	31	34	57	58		
CASING	MATERIAL		GALVANISED MILD STEEL				
	THICKNESS	mm/in	0.8 / 0.031				
	FINISHING		POLYESTER POWDER				
SOUND PRESSURE LEVEL	dBA	48	49	52	53		
PIPE	FLARE VALVE						
	TYPE						
	SIZE	LIQUID	mm/in	6.35 / 1/4	6.35 / 1/4	6.35 / 1/4	9.52 / 3/8
	GAS	mm/in	9.52 / 3/8	12.70 / 1/2	15.88 / 5/8	15.88 / 5/8	
PACKING DIMENSION	HEIGHT	mm/in	558 / 22.0		710 / 28.0		
	WIDTH	mm/in	851 / 33.5		957 / 37.7		
	DEPTH	mm/in	401 / 15.8		461 / 18.1		

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3) NOMINAL COOLING CAPACITY IS BASED ON THE CONDITIONS BELOW :

a) COOLING - 26.7°C DB / 19.4°C WB INDOOR AND 35°C DB OUTDOOR

4) ALLOWABLE OPERATING RANGE

a) COOLING - 19.4°C DB / 13.9°C WB INDOOR AND 19.4°C DB OUTDOOR TO 26.7°C DB / 19.4°C WB INDOOR AND 46.1°C DB OUTDOOR

Abbreviation

S.B.C. - SEAMLESS BARE COPPER

S.I.G.C - SEAMLESS INNER GROOVE COPPER

SPECIFICATIONS

CEILING CONCEALED HEAT PUMP MODELS

MODEL		INDOOR UNIT		MCC028CR		MCC038CR	
		OUTDOOR UNIT		MLC030CR		MLC040CR	
NOMINAL COOLING CAPACITY		kcal/h		7060		9580	
		W		8210		11140	
		Btu/h		28000		38000	
NOMINAL HEATING CAPACITY		kcal/h		7180		9700	
		W		8350		11280	
		Btu/h		28500		38500	
POWER SOURCE		V/Ph/Hz		220 - 240 / 1 / 50			
REFRIGERANT / CONTROL		R22 / CAP. TUBE + TXV IN OUTDOOR					
FAN	AIR FLOW	cfm/cmm		850 / 24.07		1540 / 43.61	
	STATIC PRESSURE	mm Aq		10 / 7 / 5 / 3			
	FAN MOTOR			4 POLES			
	RATED INPUT POWER	W		300		563	
	RATED RUNNING CURRENT	A		1,3		2,4	
COIL	TUBE	MATERIAL		SEAMLESS COPPER			
		DIAMETER	mm/in	9.52 / 3/8			
		THICKNESS	mm/in	0.36 / 0.014			
	FIN	MATERIAL		ALUMINIUM			
		THICKNESS	mm/in	0.127 / 0.005			
		ROW		3			
		FIN PER INCH		14			
FACE AREA	m ² /ft ²		0.24 / 2.62		0.34 / 3.61		
DIMENSION	HEIGHT	mm/in		290 / 11.42		310 / 12.20	
	WIDTH	mm/in		942 / 37.09		1247 / 49.09	
	DEPTH	mm/in		600 / 23.62		638 / 25.12	
WEIGHT	kg		38		41		
SOUND PRESSURE LEVEL	dBA						
CONTROL	ROOM TEMPERATURE OPERATION			MICROCOMPUTER CONTROLLED THERMOSTAT SLM WIRED HANDSET (OPTIONAL AC5300 REMOTE CONTROLLER)			
CONDENSATE DRAIN SIZE	mm/in		19.05 / 3/4				
AIR FILTER			WASHABLE SARAN NET				
PACKING DIMENSION	HEIGHT	mm/in		327 / 12.87		339 / 13.35	
	WIDTH	mm/in		1122 / 44.17		1445 / 56.89	
	DEPTH	mm/in		674 / 26.54		711 / 27.99	
POWER SOURCE		V/Ph/Hz		220 - 240 / 1 / 50		380 - 415 / 3 / 50	
COMPRESSOR TYPE		RECIPROCATING HERMETIC					
COMPRESSOR	CAPACITOR	µF		45		NIL	
	LOCK ROTOR AMP.	A		85		45	
	RATED RUNNING CURRENT (COOLING)	A		12,8		5,9	
	RATED RUNNING CURRENT (HEATING)	A		11,5		5,6	
	RATED INPUT POWER (COOLING)	W		2570		3450	
	RATED INPUT POWER (HEATING)	W		2200		2990	
PROTECTION DEVICE		OVERLOAD PROTECTION / HI PRESSURE SWITCH					
POWER SOURCE		220 - 240 / 1 / 50					
FAN TYPE / DRIVE		PROPELLER / DIRECT					
BLADE MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN					
FAN	DIAMETER	mm/in		600 / 24			
	RATED RUNNING CURRENT	A		1,09			
	RATED OUTPUT POWER	W		145			
	RATED INPUT POWER	W		241			
COIL	TUBE	MATERIAL		S.B.C.		S.I.G.C.	
		DIAMETER	mm/in	9.52 / 3/8			
		THICKNESS	mm/in	0.35 / 0.014			
	FIN	MATERIAL		ALUMINIUM (CORRUGATED)			
		THICKNESS	mm/in	0.127 / 0.005			
		ROW		2		2	
		FIN PER INCH		16		16	
FACE AREA	m ² /ft ²		0.87 / 9.33				
DIMENSION	HEIGHT	mm/in		850 / 33.46			
	WIDTH	mm/in		1030 / 40.55			
	DEPTH	mm/in		400 / 15.75			
WEIGHT	kg		95		100		
CASING	MATERIAL		ELECTRO-GALVANISED MILD STEEL				
	THICKNESS	mm/in		0.8 / 0.031			
	FINISHING		POLYESTER POWDER				
SOUND PRESSURE LEVEL	dBA		60		59		
PIPE	TYPE	FLARE VALVE					
		SIZE	LIQUID	mm/in	9.52 / 3/8		9.52 / 3/8
		GAS	mm/in	15.88 / 5/8		19.05 / 3/4	
PACKING DIMENSION	HEIGHT	mm/in		1000 / 39.37			
	WIDTH	mm/in		1200 / 47.24			
	DEPTH	mm/in		560 / 22.05			

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI 210/240-89

3) NOMINAL COOLING CAPACITY IS BASED ON THE CONDITIONS BELOW :

a) COOLING - 26.7°C DB / 19.4°C WB INDOOR AND 35°C DB OUTDOOR

4) ALLOWABLE OPERATING RANGE

a) COOLING - 19.4°C DB / 13.9°C WB INDOOR AND 19.4°C DB OUTDOOR TO
26.7°C DB / 19.4°C WB INDOOR AND 46.1°C DB OUTDOOR

Abbreviation

S.B.C. - SEAMLESS BARE COPPER

S.I.G.C.- SEAMLESS INNER GROOVE COPPER

SPECIFICATIONS

CEILING CONCEALED COOLING ONLY MODELS

MODEL		INDOOR UNIT		MCC028C		MCC038C	
		OUTDOOR UNIT		MLC030C		MLC040C	
NOMINAL COOLING CAPACITY		kcal/h	7060		9580		
		W	8210		11140		
		Btu/h	28000		38000		
POWER SOURCE		V/Ph/Hz		220 - 240 / 1 / 50			
REFRIGERANT / CONTROL		R22 / CAPILLARY TUBE IN INDOOR					
FAN	AIR FLOW	cfm/cmm	850 / 24.07		1540 / 43.61		
	STATIC PRESSURE	mm Aq	10 / 7 / 5 / 3				
	FAN MOTOR		4 POLES				
	RATED INPUT POWER	W	300		563		
	RATED RUNNING CURRENT	A	1,3		2,4		
COIL	TUBE	SEAMLESS COPPER					
		DIAMETER	mm/in	9.52 / 3/8			
		THICKNESS	mm/in	0.36 / 0.014			
	FIN	ALUMINIUM					
		THICKNESS	mm/in	0.127 / 0.005			
		ROW		3			
	FIN PER INCH		14				
FACE AREA	m ² /ft ²	0.24 / 2.62		0.34 / 3.61			
DIMENSION	HEIGHT	mm/in	290 / 11.42		310 / 12.20		
	WIDTH	mm/in	942 / 37.09		1247 / 49.09		
	DEPTH	mm/in	600 / 23.62		638 / 25.12		
WEIGHT	kg	38		41			
SOUND PRESSURE LEVEL	dBa						
CONTROL	ROOM TEMPERATURE OPERATION	MICROCOMPUTER CONTROLLED THERMOSTAT SLM WIRED HANDSET (OPTIONAL AC5300 REMOTE CONTROLLER)					
CONDENSATE DRAIN SIZE	mm/in	19.05 / 3/4					
AIR FILTER		WASHABLE SARAN NET					
PACKING DIMENSION	HEIGHT	mm/in	327 / 12.87		339 / 13.35		
	WIDTH	mm/in	1122 / 44.17		1445 / 56.89		
	DEPTH	mm/in	674 / 26.54		711 / 27.99		
POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50		380 - 415 / 3 / 50			
COMPRESSOR TYPE		RECIPROCATING HERMETIC					
CAPACITOR	µF	45		NIL			
LOCK ROTOR AMP.	A	85		45			
RATED RUNNING CURRENT	A	12,8		5,9			
RATED INPUT POWER	W	2570		3450			
PROTECTION DEVICE		OVERLOAD PROTECTION / HI-LO PRESSURE SWITCH					
POWER SOURCE		220 - 240 / 1 / 50					
FAN TYPE / DRIVE		PROPELLER / DIRECT					
BLADE MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN					
DIAMETER	mm/in	600 / 24					
RATED RUNNING CURRENT	A	1,09					
RATED OUTPUT POWER	W	145					
RATED INPUT POWER	W	241					
COIL	TUBE	S.B.C.					
		DIAMETER	mm/in	9.52 / 3/8			
		THICKNESS	mm/in	0.35 / 0.014			
	FIN	ALUMINIUM (CORRUGATED)					
		THICKNESS	mm/in	0.127 / 0.005			
		ROW		1		2	
	FIN PER INCH		16		14		
FACE AREA	m ² /ft ²	0.87 / 9.33					
DIMENSION	HEIGHT	mm/in	850 / 33.46				
	WIDTH	mm/in	1030 / 40.55				
	DEPTH	mm/in	400 / 15.75				
WEIGHT	kg	95		100			
CASING	ELECTRO-GALVANISED MILD STEEL						
	THICKNESS	mm/in	0.8 / 0.031				
	FINISHING		POLYESTER POWDER				
SOUND PRESSURE LEVEL	dBa	60		59			
PIPE	FLARE VALVE						
	SIZE	LIQUID	mm/in	9.52 / 3/8		9.52 / 3/8	
		GAS	mm/in	15.88 / 5/8		19.05 / 3/4	
PACKING DIMENSION	HEIGHT	mm/in	1000 / 39.37				
	WIDTH	mm/in	1200 / 47.24				
	DEPTH	mm/in	560 / 22.05				

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- 3) NOMINAL COOLING CAPACITY IS BASED ON THE CONDITIONS BELOW :
 - a) COOLING - 26.7°C DB / 19.4°C WB INDOOR AND 35°C DB OUTDOOR
- 4) ALLOWABLE OPERATING RANGE
 - a) COOLING - 19.4°C DB / 13.9°C WB INDOOR AND 19.4°C DB OUTDOOR TO 26.7°C DB / 19.4°C WB INDOOR AND 46.1°C DB OUTDOOR

Abbreviation

S.B.C. - SEAMLESS BARE COPPER
S.I.G.C- SEAMLESS INNER GROOVE COPPER

SPECIFICATIONS

CEILING CONCEALED MODELS

MODEL	INDOOR UNIT		MCC 030CR		MCC 040CR		MCC 050CR		MCC 060CR			
	INDOOR UNIT	OUTDOOR UNIT	MLC 030BR	MLC 030CR	MLC 035CR	MLC 040CR	MLC 050CR	MLC 060CR	MMC 060CR			
NOMINAL COOLING CAPACITY	kcal/h	-	7560	8820	10258	11720	12600	14620	14620			
	W	-	8790	10258	11720	12600	14620	16990	16990			
NOMINAL HEATING CAPACITY	kcal/h	-	30000	35000	40000	50000	58000	58000	58000			
	W	-	8317	9072	10459	13105	16633	16633	16633			
POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50 , 208 - 230 / 1 / 60										
	REFRIGERANT / CONTROL	R22 / CAP. TUBE + TXV IN OUTDOOR										
AIR FLOW	cfm/cmm	900 / 25.49			1200 / 33.99			1500 / 42.49		1800 / 50.99		
	STATIC PRESSURE	mm Aq	15 / 10 / 5									
FAN MOTOR	4 POLES											
RATED INPUT POWER	W (50/60Hz)	421 / -	421 / 486		550 / 661		670 / 767		748 / 804			
RATED RUNNING CURRENT	A (50/60Hz)	1.9 / -	1.9 / 2.4		2.6 / 3.4		2.9 / 3.7		3.2 / 3.7			
MATERIAL	TUBE	SEAMLESS BARE COPPER										
	DIAMETER	mm/in	9.52 / 3/8									
THICKNESS	mm/in	0.35 / 0.014										
MATERIAL	FIN	ALUMINIUM										
	THICKNESS	mm/in	0.127 / 0.005									
ROW	3				3							
FIN PER INCH	12				14							
FACE AREA	m ² /ft ²	0.27 / 2.98			0.31 / 3.44			0.40 / 4.40		0.47 / 5.16		
DIMENSION	HEIGHT	mm/in	378 / 14.88									
	WIDTH	mm/in	929 / 36.57			1045 / 41.14			1299 / 51.14		1499 / 59.02	
	DEPTH	mm/in	541 / 21.30									
WEIGHT	kg	39			42			54		62		
SOUND PRESSURE LEVEL (H / M / L)	dB(A)	61 / 59 / 57			61 / 59 / 58			62 / 61 / 60		62 / 61 / 60		
CONTROL	ROOM TEMPERATURE OPERATION	MICROCOMPUTER CONTROLLED THERMOSTAT										
	CONDENSATE DRAIN SIZE	mm/in	19.05 / 3/4									
AIR FILTER	WASHABLE SARAN NET											
PACKING DIMENSION	HEIGHT	mm/in	399 / 15.71									
	WIDTH	mm/in	1110 / 43.70			1229 / 48.39			1481 / 58.31		1685 / 66.34	
	DEPTH	mm/in	615 / 24.21									
POWER SOURCE	V/Ph/Hz	220-240 / 1 / 50 / < 380-415 / 3 / 50 >				380 - 415 / 3 / 50						
COMPRESSOR TYPE	V/Ph/Hz	- 208 - 230 / 1 / 60		-		-		200 - 230 / 1 / 60				
CAPACITOR - μF	50 Hz	50	45 / < NIL >		35	40 / < NIL >		NIL		NIL / -		
	60 Hz	-	45		-	NIL		NIL		-		
LOCK ROTOR AMP. - A	50 Hz	66	85 / < 39 >		82	100 / < 45 >		62		74		
	60 Hz	-	88		-	78		106		-		
RATED RUNNING CURRENT (COOLING) - A	50 Hz	-	13.4 / < 5.0 >		15.0	18.8 / < 6.0 >		7.8		10.2		
	60 Hz	-	15.3		-	11.2		14.8		-		
RATED RUNNING CURRENT (HEATING) - A	50 Hz	-	12.9 / < 4.9 >		14.4	16.9 / < 5.4 >		7.2		9.1		
	60 Hz	-	14.2		-	10.0		12.4		-		
RATED INPUT POWER (COOLING) - W	50 Hz	-	2640 / < 2900 >		2952	3530 / < 3431 >		4634		4589		
	60 Hz	-	3144		-	3595		4905		-		
RATED INPUT POWER (HEATING) - W	50 Hz	-	2562 / < 2756 >		2861	3020 / < 2921 >		4036		3820		
	60 Hz	-	2846		-	3042		3739		-		
PROTECTION DEVICE	OLP		OVERLOAD PROTECTION / HI PRESSURE SWITCH									
POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50, 208 - 230 / 1 / 60										
FAN TYPE / DRIVE	PROPELLER / DIRECT											
BLADE MATERIAL	GLASS REINFORCED ACRYL STYRENE RESIN											
DIAMETER	mm/in	420.0 / 16.5			609.6 / 24				660.4 / 26			
RATED RUNNING CURRENT	A (50/60Hz)	0.7 / -			1.09 / 1.25				2.3 / 1.25		3.0 / -	
RATED OUTPUT POWER	W (50/60Hz)	80 / -			145 / 145				400 / 145		480 / -	
RATED INPUT POWER	W (50/60Hz)	166 / -			241 / 261				655 / 261		680 / -	
MATERIAL	TUBE	S.I.G.C		S.B.C.		S.I.G.C.		S.I.G.C.		S.B.C.		
	DIAMETER	9.52 / 3/8										
THICKNESS	mm/in	0.35 / 0.014										
MATERIAL	FIN	ALU. (SPLIT)				ALUMINIUM (CORRUGATED)				ALU. (SLIT)		
	THICKNESS	mm/in	0.127 / 0.005									
ROW	2				2							
FIN PER INCH	16				16							
FACE AREA	m ² /ft ²	0.51 / 5.53			0.87 / 9.33			1.10 / 11.93				
DIMENSION	HEIGHT	mm/in	646 / 25.40			850 / 33.46			946 / 37.24			
	WIDTH	mm/in	840 / 33.10			1030 / 40.55			1300 / 51.18			
	DEPTH	mm/in	330 / 13.00			400 / 15.75			500 / 19.68			
WEIGHT	kg	58		95		95		100		105		
CASING	MATERIAL	ELECTRO-GALVANISED MILD STEEL										
	THICKNESS	mm/in	0.8 / 0.031									
	FINISHING	POLYESTER POWDER										
SOUND PRESSURE LEVEL	dB(A)	56		60		59		62		71		
PIPE TYPE	SIZE	FLARE VALVE										
	LIQUID	mm/in	9.52 / 3/8			9.52 / 3/8			9.52 / 3/8		12.7 / 1/2	
PACKING DIMENSION	GAS	mm/in	15.88 / 5/8			19.05 / 3/4			19.05 / 3/4		19.05 / 3/4	
	HEIGHT	mm/in	710 / 27.95			1000 / 39.37			1118 / 44.0			
	WIDTH	mm/in	957 / 37.68			1200 / 47.24			1435 / 56.5			
DEPTH	mm/in	461 / 18.15			560 / 22.05			686 / 27.0				

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ARI 210/240-89

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 26.7°C DB / 19.4°C WB INDOOR AND 35°C DB OUTDOOR

b) HEATING - 21.1°C DB / 15.6°C WB INDOOR AND 8.3°C DB / 6.1°C WB OUTDOOR

4) ALLOWABLE OPERATING RANGE

SPECIFICATIONS

CEILING CONCEALED COOLING ONLY MODELS

MODEL		INDOOR UNIT	MCC 030C		MCC 040C		MCC 050C		MCC 060C		
		OUTDOOR UNIT	MLC 030B	MLC 030C	MLC 035C	MLC 040C	MLC 050C	MLC 060C	MMC 060C		
NOMINAL COOLING CAPACITY		kcal/h	7056	7560	8820	10080	12600	15120	15120		
		W	8204	8790	10258	11720	14650	17580	17580		
		Btu/h	28000	30000	35000	40000	50000	60000	60000		
POWER SOURCE		V/Ph/Hz	220 - 240 / 1 / 50 , 208 - 230 / 1 / 60								
REFRIGERANT / CONTROL			R22 / CAPILLARY TUBE IN INDOOR								
FAN	AIR FLOW	cfm/cmm	900 / 25.49		1200 / 33.99		1500 / 42.49		1800 / 50.99		
	STATIC PRESSURE	mm Aq	15 / 10 / 5								
	FAN MOTOR		4 POLES								
	RATED INPUT POWER	W (50/60Hz)	421 / 486		550 / 661		670 / 767		748 / 804		
	RATED RUNNING CURRENT	A (50/60Hz)	1.9 / 2.4		2.6 / 3.4		2.9 / 3.7		3.2 / 3.7		
	COIL TUBE			SEAMLESS BARE COPPER							
COIL FIN	DIAMETER	mm/in	9.52 / 3/8								
	THICKNESS	mm/in	0.35 / 0.014								
	MATERIAL		ALUMINIUM								
	THICKNESS	mm/in	0.127 / 0.005								
	ROW		3		3		3		3		
	FIN PER INCH		12		14		14		14		
	FACE AREA	m ² /ft ²	0.27 / 2.98		0.31 / 3.44		0.40 / 4.40		0.47 / 5.16		
	DIMENSION	HEIGHT	mm/in	378 / 14.88							
	WIDTH	mm/in	929 / 36.57		1045 / 41.14		1299 / 51.14		1499 / 59.02		
	DEPTH	mm/in	541 / 21.30								
WEIGHT		kg	39		42		54		62		
SOUND PRESSURE LEVEL		dBA	61 / 59 / 57		61 / 59 / 58		62 / 61 / 60		62 / 61 / 60		
CONTROL	ROOM TEMPERATURE OPERATION		MICROCOMPUTER CONTROLLED THERMOSTAT SLM WIRED HANDSET (OPTIONAL AC5300 REMOTE CONTROLLER)								
CONDENSATE DRAIN SIZE		mm/in	19.05 / 3/4								
AIR FILTER			WASHABLE SARAN NET								
PACKING DIMENSION	HEIGHT	mm/in	399 / 15.71								
	WIDTH	mm/in	1110 / 43.70		1229 / 48.39		1481 / 58.31		1685 / 66.34		
	DEPTH	mm/in	615 / 24.21								
COMPRESSOR	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50 / < 380 - 415 / 3 / 50 >			380 - 415 / 3 / 50					
		V/Ph/Hz	208 - 230 / 1 / 60			200 - 230 / 3 / 60					
	COMPRESSOR TYPE		ROTARY		RECIPROCATING HERMETIC			SCROLL	RECIP.		
	CAPACITOR - μF	50 Hz	50	45 / < NIL >	35	NIL	NIL	NIL	NIL		
		60 Hz	-	45	-	NIL	NIL	NIL	-		
	LOCK ROTOR AMP. - A	50 Hz	66	85 / < 39 >	82	45	62	74	79		
		60 Hz	-	88	-	78	106	139	-		
	RATED RUNNING CURRENT - A	50 Hz	14,6	13.4 / < 5.2 >	15,4	6,0	7,8	10,2	9,7		
		60 Hz	-	15,3	-	11,2	14,8	29,2	-		
	RATED INPUT POWER - W	50 Hz	2990	2640 / < 3050 >	3100	3431	4634	4589	4690		
	60 Hz	-	3144	-	3595	4905	6280	-			
PROTECTION DEVICE		OL PROTECTION	OVERLOAD PROTECTION / HI-LO PRESSURE SWITCH								
POWER SOURCE			220 - 240 / 1 / 50 , 208 - 230 / 1 / 60								
FAN TYPE / DRIVE			PROPELLER / DIRECT								
BLADE MATERIAL			GLASS REINFORCED ACRYL STYRENE RESIN						ALUMINIUM		
DIAMETER	mm/in	420 / 16.5	609.6 / 24					660.4 / 26			
RATED RUNNING CURRENT	A (50/60Hz)	0.79 / -	1.09 / 1.25				2.3 / 1.25	3.0 / -			
RATED OUTPUT POWER	W (50/60Hz)	80 / -	145 / 145				400 / 145	480 / -			
RATED INPUT POWER	W (50/60Hz)	186 / -	241 / 261				655 / 261	680 / -			
COIL TUBE	MATERIAL		S.I.G.C.			S.B.C.			S.I.G.C.	S.B.C.	
COIL FIN	DIAMETER	mm/in	9.52 / 3/8								
	THICKNESS	mm/in	0.36 / 0.014 AVE.		0.35 / 0.014						
	MATERIAL		ALU (SLIT)				ALUMINIUM (CORRUGATED)			ALU. (SLIT)	ALU. (CORR.)
	THICKNESS	mm/in	0.127 / 0.005								
	ROW		2		1		2		2		
	FIN PER INCH		16		16		14		16		
	FACE AREA	m ² /ft ²	0.51 / 5.53		0.87 / 9.33			1.10 / 11.93			
	DIMENSION	HEIGHT	mm/in	646 / 25.40		850 / 33.46			946 / 37.24		
	WIDTH	mm/in	840 / 33.10		1030 / 40.55			1300 / 51.18			
	DEPTH	mm/in	330 / 13.00		400 / 15.75			500 / 19.68			
WEIGHT		kg	58	95	95	100	105	105	140		
CASING	MATERIAL		ELECTRO-GALVANISED MILD STEEL								
	THICKNESS	mm/in	0.8 / 0.031								
	FINISHING		POLYESTER POWDER								
SOUND PRESSURE LEVEL		dBA	56	60	59	59	62	71	73		
PIPE	TYPE		FLARE VALVE								
	SIZE	LIQUID	9.52 / 3/8			9.52 / 3/8		9.52 / 3/8		12.7 / 1/2	
		GAS	15.88 / 5/8			19.05 / 3/4		19.05 / 3/4		19.05 / 3/4	
PACKING DIMENSION	HEIGHT	mm/in	710 / 27.95		1000 / 39.37				1118 / 44.0		
	WIDTH	mm/in	957 / 37.68		1200 / 47.24				1435 / 56.5		
	DEPTH	mm/in	461 / 18.15		560 / 22.05				686 / 27.0		

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a) COOLING - 26.7°C DB / 19.4°C WB INDOOR AND 35°C DB OUTDOOR

4) ALLOWABLE OPERATING RANGE

a) COOLING - 19.4°C DB / 13.9°C WB INDOOR AND 19.4°C DB OUTDOOR TO

26.7°C DB / 19.4°C WB INDOOR AND 46.1°C DB OUTDOOR

Abbreviation

S.B.C. - SEAMLESS BARE COPPER

S.I.G.C. - SEAMLESS INNER GROOVE COPPER