

SPECIFICATIONS

CEILING CASSETTE (HEAT PUMP)

MODEL		INDOOR UNIT	MCK 020AR	MCK 025AR	MCK 030AR		MCK 040AR		MCK 050AR		
		OUTDOOR UNIT	MLC 020BR	MLC 025BR	MLC 030BR	MLC 030CR	MLC 035CR	MLC 040CR	MLC 050CR		
NOMINAL COOLING CAPACITY	kcal/h		5040	6300	6552	7560	8820	10080	12096		
	W		5862	7327	7620	8792	10258	11723	14068		
NOMINAL HEATING CAPACITY	Btu/h		20000	25000	26000	30000	35000	40000	48000		
	kcal/h		5040	6300	7056	7812	9072	10332	12600		
HEATING CAPACITY	W		5862	7327	8206	9086	10551	12016	14654		
	Btu/h		20000	25000	28000	31000	36000	41000	50000		
POWER SOURCE		V/Ph/Hz	220 - 240 / 1 / 50 , 208 - 230 / 1 / 60								
REFRIGERANT / CONTROL			R22 / CAPILLARY TUBE IN OUTDOOR			R22 / CAPILLARY TUBE & TXV IN OUTDOOR					
FAN	AIR FLOW	cfm/cmm	770 / 21.81		810 / 22.94		920 / 26.05		1020 / 28.88		1080 / 30.58
	FAN MOTOR	50Hz	6 POLES x 35W		6 POLES x 50W		6 POLES x 65W		6 POLES x 85W		6 POLES x 120W
		60Hz	6 POLES x 29W		6 POLES x 45W		6 POLES x 60W		6 POLES x 147W		6 POLES x 169W
	RATED INPUT POWER (W)	W (50/60Hz)	127 / 137		151 / 160		184 / -		164 / 198		192 / 308
	RATED RUNNING CURRENT (A)	A (50/60Hz)	0.53 / 0.62		0.65 / 0.73		0.69 / -		0.69 / 0.93		0.80 / 1.42
INDOOR UNIT 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						ALUMINIUM (HYDROPHILIC TYPE)		
		THICKNESS	mm/in						0.11 / 0.0043		
ROW		2		2		2		3		3	
FACE AREA	m ² /ft ²	12		16		16		20		20	
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)		
	WEIGHT (UNIT + PANEL)	kg	21 + 4		32 + 4		35 + 4		38 + 4		40 + 4
SOUND PRESSURE LEVEL (H / M / L)	dBA	42 / 39 / 37		45 / 42 / 40		49 / 45 / 43		51 / 48 / 46		53 / 52 / 50	
CONTROL	ROOM TEMPERATURE	MICROCOMPUTER CONTROLLED THERMOSTAT									
	AIR DISCHARGE OPERATION	4 - WAY AUTOMATIC LOUVER (UP & DOWN) LCD WIRELESS / LED WIRED MICROCOMPUTER REMOTE CONTROL									
CONDENSATE DRAIN SIZE	mm/in	19.05 / 3/4									
AIR FILTER	WASHABLE SARAN NET (OPTIONAL IONIZER FILTER)										
PACKING	HEIGHT	mm/in	380 (130) / 15.0 (5.1)								
DIMENSION () - PANEL	WIDTH	mm/in	920 (1020) / 36.2 (40.2)								
	DEPTH	mm/in	920 (1000) / 36.2 (39.4)								
COMPRESSOR	POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50 , 208 - 230 / 1 / 60			200 - 230 / 3 / 60			380 - 420 / 3 / 50		
	COMPRESSOR TYPE		ROTARY HERMETIC			RECIPROCATING HERMETIC					
	CAPACITOR - µF	50 Hz	45 / < NIL >	45 / < NIL >	50	45 / < NIL >	35	40 / < NIL >	NIL		
	1Ø / < 3Ø >	60 Hz	40	60	-	45	-	NIL	NIL		
	LOCK ROTOR AMPERE - A	50 Hz	56 / < 21.4 >	57 / < 24.9 >	66	85 / < 39 >	82	100 / < 45 >	62		
	1Ø / < 3Ø >	60 Hz	39.6	50	-	88	-	78	106		
	RATED RUNNING CURR. (COOLING) - A	50 Hz	9.84 / < 3.7 >	13.0 / < 4.8 >	13.9	13.4 / < 5.0 >	15.0	18.8 / < 6.0 >	7.8		
	1Ø / < 3Ø >	60 Hz	8.30	11.6	-	15.3	-	11.2	14.8		
	RATED RUNNING CURR. (HEATING) - A	50 Hz	9.84 / < 3.7 >	12.7 / < 4.9 >	12.4	12.9 / < 4.9 >	14.4	16.9 / < 5.4 >	7.2		
	1Ø / < 3Ø >	60 Hz	8.70	11.4	-	14.2	-	10.0	12.4		
RATED INPUT POWER (COOLING) - W	50 Hz	1987 / < 1950 >	2730 / < 2560 >	2890	2643 / < 2900 >	2952	3530 / < 3431 >	4634			
1Ø / < 3Ø >	60 Hz	1777	2486	-	3144	-	3595	4905			
RATED INPUT POWER (HEATING) - W	50 Hz	2008 / < 1960 >	2650 / < 2640 >	2373	2562 / < 2756 >	2861	3020 / < 2921 >	4036			
1Ø / < 3Ø >	60 Hz	1824	2420	-	2846	-	3042	3739			
PROTECTION DEVICE	OVERLOAD PROTECTION					OVERLOAD PROTECTION & MANUAL RESET HIGH 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 / 24.0			
RATED RUNNING CURRENT	A (50/60Hz)	0.56 / 0.76		0.7 / -		1.09 / 1.25		1.09 / -		1.09 / 1.25	
RATED OUTPUT POWER	W (50/60Hz)	55 / 55		80 / -		145 / 145		145 / -		145 / 145	
RATED INPUT POWER	W (50/60Hz)	133 / 165		166 / -		241 / 261		241 / -		241 / 261	
INDOOR UNIT COIL	TUBE	MATERIAL	S.B.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 (SLIT FIN TYPE)			ALUMINIUM (CORRUGATED FIN TYPE)			ALUMINIUM (CORRUGATED FIN TYPE)		
		THICKNESS	mm/in						0.127 / 0.005		
ROW		2		2		2		2			
FACE AREA	m ² /ft ²	14		16		16		16			
DIMENSION	HEIGHT	mm/in	646 / 25.40						850 / 33.46		
	WIDTH	mm/in	840 / 33.10						1029 / 40.53		
	DEPTH	mm/in	330 / 13.00						400 / 15.75		
	WEIGHT	kg	57		58		95		95		100
SOUND PRESSURE LEVEL	dBA	52		53		56		60		59	
CASING	MATERIAL	GALVANISED MILD STEEL									
	THICKNESS FINISHING	mm/in	0.8 / 0.031								
PIPE	TYPE	POLYESTER POWDER FLARE VALVE									
	SIZE	LIQUID	mm/in			6.35 / 1/4			9.52 / 3/8		
PACKING DIMENSION	HEIGHT	GAS	mm/in			15.88 / 5/8			15.88 / 5/8		
		LIQUID	mm/in			710 / 27.95			1000 / 39.37		
		GAS	mm/in			957 / 37.68			1200 / 47.24		
DEPTH	LIQUID	mm/in			461 / 18.15			560 / 22.05			
	GAS	mm/in			461 / 18.15			560 / 22.05			

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

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

b) 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

Abbreviation

S.B.C. - SEAMLESS BARE COPPER

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

SPECIFICATIONS

CEILING CASSETTE (COOLING ONLY)

MODEL		INDOOR UNIT	MCK 020A	MCK 025A	MCK 030A		MCK 040A		MCK 050A	
		OUTDOOR UNIT	MLC 020B	MLC 025B	MLC 030B	MLC 030C	MLC 035C	MLC 040C	MLC 050C	
NOMINAL COOLING CAPACITY	kcal/h		5292	6300	7056	7560	8316	10080	12600	
	W		6155	7327	8204	8792	9672	11723	14654	
	Btu/h		21000	25000	28000	30000	33000	40000	50000	
POWER SOURCE		V/Ph/Hz	220 - 240 / 1 / 50 , 208 - 230 / 1 / 60							
REFRIGERANT / CONTROL			R22 / CAPILLARY TUBE IN OUTDOOR			R22 / CAPILLARY TUBE IN INDOOR				
FAN	AIR FLOW	cfm/cmm	770 / 21.81	810 / 22.94	920 / 26.05		1020 / 28.88		1080 / 30.58	
	FAN MOTOR	50 Hz	6 POLES x 35W	6 POLES x 50W	6 POLES x 65W		6 POLES x 85W		6 POLES x 120W	
		60 Hz	6 POLES x 29W	6 POLES x 45W	6 POLES x 60W		6 POLES x 147W		6 POLES x 169W	
	RATED INPUT POWER (W)	50 Hz		127	151	164		192		253
		60 Hz		137	160	198		308		329
RATED RUNNING CURRENT (A)	50 Hz		0,53	0,65	0,69		0,80		1,08	
	60 Hz		0,62	0,73	0,93		1,42		1,50	
COIL	MATERIAL		S.B.C.				S.I.G.C			
	DIAMETER	mm/in	9.52 / 3/8				7.0 / 0.28			
	THICKNESS	mm/in	0.35 / 0.014				0.27 / 0.01			
	MATERIAL		ALUMINIUM				ALUMINIUM (HYDROPHILIC TYPE)			
	THICKNESS	mm/in	0.11 / 0.0043							
FIN	ROW		2	2	2		3		3	
	FIN PER INCH		12	14	16		20		20	
	FACE AREA	m ² /ft ²	0.469 / 5.022							
DIMENSION	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)							
WEIGHT (UNIT + PANEL)	kg	21 + 4	32 + 4	35 + 4		38 + 4		40 + 4		
SOUND PRESSURE LEVEL (H / M / L)	dBA	42 / 39 / 37	45 / 42 / 40	49 / 45 / 43		51 / 48 / 46		53 / 52 / 50		
CONTROL	ROOM TEMPERATURE		MICROCOMPUTER CONTROLLED THERMOSTAT							
	AIR DISCHARGE OPERATION		4-WAY AUTOMATIC LOUVER (UP & DOWN)							
			LCD WIRELESS MICROCOMPUTER REMOTE CONTROL / LED WIRED MICROCOMPUTER REMOTE CONTROL							
CONDENSATE DRAIN SIZE	mm/in	19.05 / 3/4								
AIR FILTER		CORRUGATED WASHABLE SARAN NET (OPTIONAL IONIZER FILTER)								
PACKING DIMENSION	HEIGHT	mm/in	380 (130) / 15.0 (5.1)							
	WIDTH	mm/in	920 (1020) / 36.2 (40.2)							
	DEPTH	mm/in	920 (1000) / 36.2 (39.4)							
POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50 / < 380 - 420 / 3 / 50 >						380 - 420 / 3 / 50		
	V/Ph/Hz	208 - 230 / 1 / 60						200 - 230 / 3 / 60		
COMPRESSOR TYPE		ROTARY (RECIPROCATING) HERMETIC				RECIPROCATING HERMETIC				
CAPACITOR - µF	50 Hz	45 / < NIL >	45 / < NIL >	50	45 / < NIL >	35	NIL		NIL	
	60 Hz	40	(35)	-	45	-	NIL		NIL	
LOCK ROTOR AMPERE - A	50 Hz	56.0 / < 21.4 >	56.5 / < 24.9 >	66,0	85.0 / < 39 >	82,0	45,0	62,0		
	60 Hz	37,0	(70)	-	88,0	-	78	106		
RATED RUNNING CURRENT - A	50 Hz	10.00 / < 3.7 >	13.80 / < 4.8 >	14,55	12.66 / < 5.2 >	14,80	5,80	8,30		
	60 Hz	8,75	(12.26)	-	16,30	-	11,70	14,50		
RATED INPUT POWER - W	50 Hz	2080 / < 1950 >	2710 / < 2560 >	2980	2577 / < 3050 >	2957	3486	4943		
	60 Hz	1909	(2635)	-	3420	-	4040	5270		
PROTECTION DEVICE		OVERLOAD PROTECTION				OVERLOAD PROTECTION AND MANUAL RESET HIGH/LOW PRESSURE SWITCH				
POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50 , 208 - 230 / 1 / 60								
FAN TYPE / DRIVE		PROPELLER / DIRECT								
BLADE MATERIAL		GLASS REINFORCE ACRYL STYRENE RESIN								
DIAMETER	mm/in	420 / 16.5				609.6 / 24.0				
RATED RUNNING CURRENT (A)	50 Hz	0,56	0,7	-		1,23		1,23		
	60 Hz	0,76	-	-		-		-		
RATED OUTPUT POWER (W)	50 Hz	55	80	-		145		145		
	60 Hz	55	-	-		-		-		
RATED INPUT POWER (W)	50 Hz	133	166	-		241		241		
	60 Hz	166	-	-		-		-		
COIL	MATERIAL		S.B.C.	S.I.G.C.	S.I.G.C.	S.B.C.				
	DIAMETER	mm/in	9.52 / 3/8							
	THICKNESS	mm/in	0.35 / 0.014	0.36 / 0.014 AVERAGE			0.35 / 0.014			
	MATERIAL		ALUMINIUM (SPLIT FIN TYPE)				ALUMINIUM (CORRUGATED FIN TYPE)			
	THICKNESS	mm/in	0.127 / 0.005							
FIN	ROW		2	2	1	1	2	2		
	FIN PER INCH		14	16	16	16	14	16		
	FACE AREA	m ² /ft ²	0.51 / 5.53				0.87 / 9.33			
DIMENSION	HEIGHT	mm/in	646 / 25.40							
	WIDTH	mm/in	840 / 33.10							
	DEPTH	mm/in	330 / 13.00							
WEIGHT	kg	57	58	58	95	95	100	105		
SOUND PRESSURE LEVEL	dBA	52	53	56	60	59	59	62		
CASING	MATERIAL		GALVANISED MILD STEEL							
	THICKNESS	mm/in	0.8 / 0.031							
	FINISHING		POLYESTER POWDER							
PIPE	TYPE		FLARE VALVE							
	SIZE									
	LIQUID	mm/in	6.35 / 1/4	9.52 / 3/8			9.52 / 3/8			
PACKING DIMENSION	HEIGHT	mm/in	15.88 / 5/8				15.88 / 5/8			
	WIDTH	mm/in	710 / 27.95				1000 / 39.37			
	DEPTH	mm/in	957 / 37.68				1200 / 47.24			
			461 / 18.15				560 / 22.05			

- 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 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