

# SPECIFICATIONS

## CEILING CASSETTE COOLING ONLY

MODEL		INDOOR UNIT	MCK 015B	MCK 020B	MCK 025B	MCK 030B		
		OUTDOOR UNIT	MLC 015B	MLC 020B	MLC 025B	MLC 030B	MLC 030C	
NOMINAL COOLING CAPACITY		kcal/h	3150	4788	6048	7182	7560	
		W	3664	5569	7034	8353	8792	
		Btu/h	12500	19000	24000	28500	30000	
POWER SOURCE		V/Ph/Hz	220 - 240 / 1 / 50					
REFRIGERANT / CONTROL			R22 / CAPILLARY TUBE IN OUTDOOR			R22 / CAPILLARY TUBE IN INDOOR		
FAN	AIR FLOW	cfm/cmm	430 / 12.2	430 / 12.2	500 / 14.5	610 / 17.3		
	FAN MOTOR		6 POLES	6 POLES	6 POLES	6 POLES		
	RATED INPUT POWER	W	72	72	79	108		
	RATED RUNNING CURRENT	A	0,3	0,3	0,3	0,5		
COIL	TUBE MATERIAL		S.I.G.C					
	DIAMETER	mm/in	9.52 / 3/8					
	THICKNESS	mm/in	0.35 / 0.014					
	FIN MATERIAL		ALUMINIUM (SLIT FIN )					
	THICKNESS	mm/in	0.11 / 0.0043					
	ROW		1		2			
INDOOR UNIT	FIN PER INCH		18		14			
	FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.39 / 4.2		0.38 / 4.1			
	DIMENSION ( ) - WITH PANE	HEIGHT mm/in	293 (345) / 11.5 (13.6)					
		WIDTH mm/in	650 (727) / 25.6 (28.6)					
	DEPTH mm/in	650 (727) / 25.6 (28.6)						
WEIGHT ( UNIT + PANEL)	kg	30 + 3	30 + 3	31 + 3	32 + 3			
SOUND PRESSURE LEVEL ( H / M / L )	dBA	42 / 38 / 35	42 / 38 / 35	45 / 42 / 40	48 / 45 / 43			
CONTROL	ROOM TEMPERATURE		MICROCOMPUTER CONTROLLED THERMOSTAT					
	AIR DISCHARGE OPERATION		4 WAY MANUAL LOUVER					
			WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL					
CONDENSATE DRAIN SIZE	mm/in	19.05 / 3/4						
AIR FILTER		CORRUGATED WASHABLE SARAN NET (OPTIONAL IONIZER FILTER)						
PACKING DIMENSION ( ) - PANEL	HEIGHT	mm/in	360 (110) / 14.2 (4.3)					
	WIDTH	mm/in	725 (840) / 28.5 (33.1)					
	DEPTH	mm/in	725 (840) / 28.5 (33.1)					
POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50						
COMPRESSOR	COMPRESSOR TYPE		ROTARY HERMETIC				RECIPROCATING	
	CAPACITOR	µF	30	45	45	50	45	
	LOCK ROTOR AMP.	A	25	56	57	66	85	
	RATED RUNNING CURRENT	A	5,7	10,1	12,3	14,6	13,1	
	RATED INPUT POWER	W	1323	2112	2660	2983	2674	
	PROTECTION DEVICE		OVERLOAD PROTECTION					O/L & H-L PRESSURE SW
POWER SOURCE	V/Ph/Hz	220 - 240 / 1 / 50						
FAN	FAN TYPE / DRIVE		PROPELLER / DIRECT					
	BLADE MATERIAL		GLASS REINFORCED ACRYL STYRENE RESIN					
	DIAMETER	mm/in	355 / 14	420 / 16.5			610 / 24	
	RATED RUNNING CURRENT	A	0,28	0,56	0,63	1,09		
RATED OUTPUT POWER	W	30	55	80	145			
RATED INPUT POWER	W	62	133	150	241			
COIL	TUBE MATERIAL		S.I.G.C	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
	FIN MATERIAL		ALUMINIUM (SLIT FIN )					
	THICKNESS	mm/in	0.127 / 0.005					
	ROW		1	2	2	2	1	
FIN PER INCH		19	14	14	16	16		
FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.32 / 3.5	0.51 / 5.53			0.87 / 9.33		
DIMENSION	HEIGHT	mm/in	494 / 19.4	646 / 25.4			850 / 33.5	
	WIDTH	mm/in	740 / 29.1	840 / 33.1			1030 / 40.6	
	DEPTH	mm/in	270 / 10.6	330 / 13.0			400 / 15.8	
WEIGHT	kg	34	57	58	58	95		
SOUND PRESSURE LEVEL	dBA	49	52	53	56	60		
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	6.35 / 1/4	9.52 / 3/8			
		GAS mm/in	12.70 / 1/2	15.88 / 5/8	15.88 / 5/8			
PACKING DIMENSION	HEIGHT	mm/in	558 / 22.0	710 / 28.0			1000 / 39.4	
	WIDTH	mm/in	851 / 33.5	957 / 37.7			1200 / 47.2	
	DEPTH	mm/in	401 / 15.8	461 / 18.1			560 / 22.1	

- 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 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 CASSETTE HEAT PUMP

MODEL		INDOOR UNIT	MCK 015BR	MCK 020BR	MCK 025BR	MCK 030BR	
		OUTDOOR UNIT	MLC 015BR	MLC 020BR	MLC 025BR	MLC 030BR	MLC 030CR
NOMINAL COOLING CAPACITY		kcal/h	3100	4536	5796	6552	7056
		W	3605	5275	6741	7620	8206
		Btu/h	12300	18000	23000	26000	28000
NOMINAL HEATING CAPACITY		kcal/h	3024	4914	5796	7056	7308
		W	3517	5715	6741	8206	8499
		Btu/h	12000	19500	23000	28000	29000
POWER SOURCE		V/Ph/Hz	220 - 240 / 1 / 50				
REFRIGERANT / CONTROL			R22 / CAPILLARY TUBE IN OUTDOOR				
FAN	AIR FLOW	cfm/cmm	430 / 12.2	430 / 12.2	500 / 14.5	610 / 17.3	
	FAN MOTOR		6 POLES	6 POLES	6 POLES	6 POLES	
	RATED INPUT POWER	W	72	72	79	108	
	RATED RUNNING CURRENT	A	0,3	0,3	0,3	0,5	
COIL	TUBE MATERIAL		S.I.G.C				
	DIAMETER	mm/in	9.52 / 3/8				
	THICKNESS	mm/in	0.35 / 0.014				
	FIN MATERIAL		ALUMINIUM (SLIT FIN)				
	THICKNESS	mm/in	0.11 / 0.0043				
	ROW		1		2		
	FIN PER INCH		18		14		
FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.39/4.2		0.38/4.1			
DIMENSION ( ) - WITH PANEL	HEIGHT	mm/in	293 (345) / 11.5 (13.6)				
	WIDTH	mm/in	650 (727) / 25.6 (28.6)				
	DEPTH	mm/in	650 (727) / 25.6 (28.6)				
WEIGHT ( UNIT + PANEL)	kg	30 + 3	30 + 3	31 + 3	32 + 3		
SOUND PRESSURE LEVEL ( H / M / L )	dBA	42 / 38 / 35	42 / 38 / 35	45 / 42 / 40	48 / 45 / 43		
CONTROL	ROOM TEMPERATURE		MICROCOMPUTER CONTROLLED THERMOSTAT				
	AIR DISCHARGE OPERATION		4 WAY MANUAL LOUVER WIRELESS OR WIRED MICROCOMPUTER REMOTE CONTROL				
CONDENSATE DRAIN SIZE	mm/in	19.05 / 3/4					
AIR FILTER		CORRUGATED WASHABLE SARAN NET (OPTIONAL IONIZER FILTER)					
PACKING DIMENSION ( ) - PANEL	HEIGHT	mm/in	360 (110) / 14.2 (4.3)				
	WIDTH	mm/in	725 (840) / 28.5 (33.1)				
	DEPTH	mm/in	725 (840) / 28.5 (33.1)				
POWER SOURCE		V/Ph/Hz	220 - 240 / 1 / 50				
COMPRESSOR	COMPRESSOR TYPE		ROTARY HERMETIC				RECIPROCATING HER.
	CAPACITOR	µF	30	45	45	50	45
	LOCK ROTOR AMP.	A	25	56	57	66	85
	RATED RUNNING CURRENT (COOLING)	A	5,4	10,1	12,3	14,0	11,8
	RATED RUNNING CURRENT (HEATING)	A	4,4	9,3	11,6	13,6	12,9
	RATED INPUT POWER (COOLING)	W	1228	2112	2660	2804	2385
	RATED INPUT POWER (HEATING)	W	968	1886	2461	2649	2469
	PROTECTION DEVICE		OVERLOAD PROTECTION				O/L & HI PRESSURE SW.
POWER SOURCE		V/Ph/Hz	220 - 240 / 1 / 50				
FAN TYPE / DRIVE			PROPELLER / DIRECT				
BLADE MATERIAL			GLASS REINFORCED ACRYL STYRENE RESIN				
FAN	DIAMETER	mm/in	355 / 14	420 / 16.5			610 / 24
	RATED RUNNING CURRENT	A	0,28	0,56		0,63	1,09
	RATED OUTPUT POWER	W	30	55		80	145
	RATED INPUT POWER	W	62	133		150	241
COIL	TUBE MATERIAL		S.I.G.C	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	
	FIN MATERIAL		ALUMINIUM (SLIT FIN)				
	THICKNESS	mm/in	0.127 / 0.005				
	ROW		1	2	2	2	1
	FIN PER INCH		19	14	14	16	16
FACE AREA	m <sup>2</sup> /ft <sup>2</sup>	0.32 / 3.5		0.51 / 5.53	0.87 / 9.33		
DIMENSION	HEIGHT	mm/in	494 / 19.4	646 / 25.4			850 / 33.5
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	THICKNESS	mm/in	0.8 / 0.031				
	FINISHING		POLYESTER POWDER				
PIPE	TYPE		FLARE VALVE				
	SIZE						
PACKING DIMENSION	LIQUID	mm/in	6.35 / 1/4	6.35 / 1/4	9.52 / 3/8		
	GAS	mm/in	12.70 / 1/2	15.88 / 5/8	15.88 / 5/8		
	HEIGHT	mm/in	558 / 22.0	710 / 28.0			1000 / 39.4
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- 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