



Approval

Construction

SUBMITTAL - 12,000BTU CEILING CASSETTE - M28

Job Name:							
Location:							
Engineer:							
Submitted By:							
Submitted	То:						
WARRANT	Υ						
Standard 1	0 Years Part	s & Compre	ssor				
Terms & Condition	ns Apply.						
TYPE							
Air Source	Heat Pump						
Cold Climat	te Air Source	e Heat Pum _l	p 🗸				
MODELS							
Indoor		DUA12I	HICU230X5				
Outdoor		DMA12H	OS28230E8				
CAPACITY I	RANGE ¹						
Output (Bti	u/h)	Min.	Rated	Max.			
Cooling		3400	12000	13700			
Heating 3600 12000				15300			
HEATING P	ERFORMAN	ICE ²					
Output (Bti	u/h)	Min.	Rated	Max.			
4	17°F (8.3°C)	3600	12000	15300			
1	7°F (-8.3°C)	2300	9900	14000			
	5°F (-15°C)	1700	11300	11500			
-22°F (-30°C) 700			5800	5800			
OUTDOOR	TEMPERAT	URE OPERA	TING RANG	E			
Cooling	-30 ~ 50	°C	-22 ~ 122	2 ~ 122 °F			
Heating ³	-30 ~ 24	°C	-22 ~ 75	°F			
LINE SET &	REFRIGERA	NT					
Liquid (in.)	1/4"		Gas (in.)	1/2"			
Connection	Flared						
Pre-Charge	25						
Max. Lengt	82						
Max. Heigh	32.8						
Refrigerant	R410A						
Pre-Charge	41.62						
Additional	0.16						
Oil Type	l Type VG74 Oil Volume (ml)						
Drain Pipe	O.D. (mm)			25			



Submitted For:

Reference

Date: Unit Tag:



Images for reference only.

			illiages is	or reference only.		
CERTIFIED						
AHRI NO.						
20774	12509	C U	L) US TED	ENERGY STAR		
EFFICIENCY	' RATINGS					
SEER2				22.3		
EER2				12.7		
HSPF2 (4)				10.2		
HSPF2 (5)				8		
COP ²	47°F	17°F	5°F	-22°F		
	(8.3°C)	(-8.3°C)	(-15°C)	(-30°C)		
	3.26	2.55	1.89	1.17		
ELECTRICA	L					
Power Supply		(V/Ph/Hz)	208	8-230/1/60		
Voltage Range		(V)		187-253		
MCA (A)	15	Max Fuse	e (ODU) (A)	15		
Power Inpu	ıt (W)	Min.	Rated	Max.		
	Cooling	162	945	1350		
	Heating	146	1080	1350		
Current (A)		Min.	Rated	Max.		
Cooling		1.24	4.32	6.18		
	Heating	1.15	4.99	5.88		

^{1.} Cooling Capacity Conditions: Indoor Temperature @ 80°F (26.7°C) DB; 67°F (19.4°C) WB with Outdoor Temperature @ 95°F (35°C) DB; 75°F (23.9°C) WB. Heating Capacity Conditions: Indoor Temperature @ 70°F (21.1°C) DB; 60°F (15.6°C) WB with Outdoor Temperature @ 47°F (8.3°C) DB; 43°F (6.1°C) WB. Line Set @ 25ft (7.5m); Height Difference @ 0ft (0m). 2. COP for all temperatures is @ rated output except when rated output is not given. In that case, COP is @ max. output. 3. System continues to operate below rated outdoor temperature operating range, subject to varying conditions. System has no low temperature cutout. Capacity is not tested outside of the rated temperature range. | Master Group is not responsible for the accuracy and validity of any changes made to this document without the written authorization of Master Group. Specifications subject to change without notice.





DIMENSIONS & WEIGHTS						
Indoor	Net (WxDxH; in.)	2.44x10.24				
	Gross (WxDxH; in.)	26.06x26.06x12.				
	Net Weight lbs kg	35.27	16			
	Gross Weight Ibs kg	41.01	18.6			
Outdoor	Net (WxDxH; in.)	2.99x21.81				
	Gross (WxDxH; in.)	36.02x1	36.02x14.57x24.21			
	Net Weight Ibs kg	73.63	33.4			
	Gross Weight Ibs kg	79.37	36			
KEY FEATURES						
Rotary Inve	✓					
Twin Rotar						

FAN				
Indoor	Turbo	High	Med.	Low
CFM		335	282	241
dB(A)		40.5	35.5	31.5
Indoor ESP	Range inWo	G		
Indoor Moi	isture Remo	val (l/h)		1.69
Outdoor M	1324			
Outdoor M	52.5			
OPTIONAL				
CASSETTEG				
WF-60A1-F				
KJR-120L(R				
KJR-120N()				
KJR-120N()				
24VINTERF				

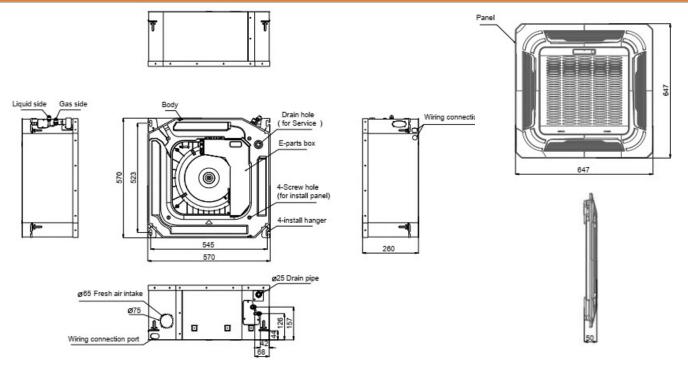
INDOOR UNIT DRAWING

INCLUDED ACCESSORIES

RG10B(D1)/BGEFU1 - Remote Controller

Base Pan Heater

Crankcase Heater



✓ ✓

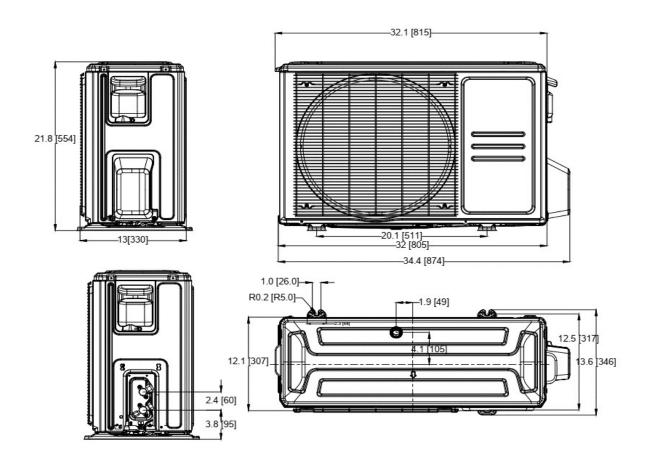
Tag					
inches					
mm					

Drawing dimensions are nominal. Specifications subject to change without notice. 4. Connection of these accessories may require secondary items not listed; refer to full product literature.

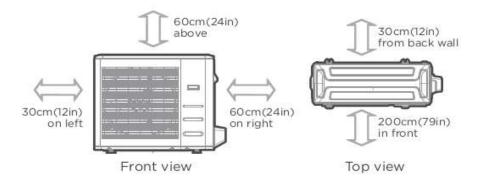




OUTDOOR UNIT DRAWING



OUTDOOR UNIT CLEARANCES



Note: Outdoor units must be elevated 12-24in. (30.5-61cm) above the surface below in heating applications to allow for snow clearance and defrost runoff. Follow local best-practices and guidelines.

Diagrams for reference only.

NOTES