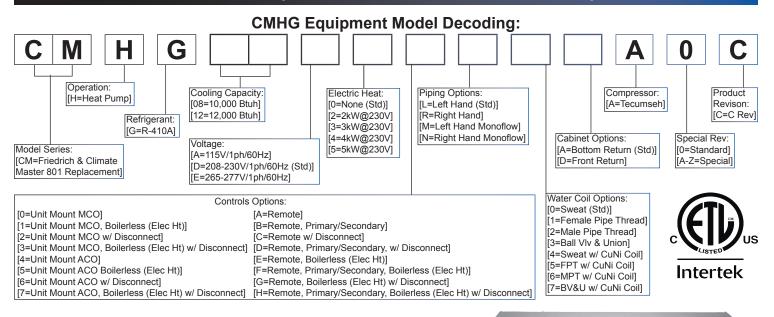


Model: **CMHG**

Specifications & Submittal Sheet

New Construction/Replacement Water Source Heat Pump Console



Important Selection Notes

Order Qt

- Electric Heat available on the CMHG08, 208/230V & 265V
- Only "2"/"3" Electric Heat available for 265V, see Page 2/IOM
- If selecting electric heat, select a "Boilerless" control option
- 24Vac Remote thermostat sold separately
- Primary/Secondary has replaced Master/Slave

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Please indicate the quantity of any field-installed accessory, desired for each <u>unit</u>										
Thermostat, Single-Stage, 1-Heat/1-Cool, 24Vac, Programmable, ICM, Manual Changeover (PN 240008208)	Thermostat, T9000, Wireless, Battery, Single Stage, 1-Ht/1-Cl, 5/2- Prog, MCO [#240009905 also required] (PN 240009781)									
Thermostat, 2-Stage, 2-Heat/2-Cool, 24Vac, Programmable, ICM, Manual Changeover (PN 240008209)	Remote Control Node, T9000, Printed Circuit Board, Wireless, 24Vac, 1/unit req'd [#240009781 also required] (PN 240009905)									
Thermostat, Single-Stage, 1-Heat/1-Cool, 24Vac, Programmable, ICM, Auto Changeover (PN 240008210)	Isolation Ball Valve, 1/2", Sweat Connections (PN 107000001)									

DOE Performance Data (AHRI/ISO 13256-1)								
	Cooling	Sensible	Us of Domain			Indoor		
Model	Cooling	Heat	EER	Heat Pump Btuh (kW)	COP	Airflow	Sound	
	Btuh (kW)	Ratio		Diuli (KVV)		CFM (L/S)	dB(A)	
MHG08	10,000 (2.9)	0.77	11.2	11,000 (3.2)	4.2	400 (189)	45	
CMHG12	12,000 (3.5)	0.85	11.2	13,600 (4.0)	4.2	450 (212)	48	



To:		Project:	
Date:		Customer:	
From:		Location:	
Contact:		Engineer:	
-		Unit Tag#	
For Your:	Reference	Approval	Construction
Page 1 of 4			PN 240010583 Rev A (05/30/2014)

Electrical, Dimensional and Miscellaneous Specifications

	Electrical Data - CMHG08																								
Power Supply	Power Supply Compress			Indoo	r Fan		Electric Heat			Unit Electrical Ratings															
Fower Suppry		Comp	163501	Mo	tor		LIECI	Inc neat		тса	тна	МСА	моср	Standard	Optional										
Voltage	Min.	RLA	LRA	FLA	Нр	Htr #	Htr V	Htr W	Htr A				moor	Connection	Plug										
115V/1ph/60Hz	104	8	45.6	1.4	0.09	0	N/A	N/A	N/A	9.4	9.4	11.4	15	Hard-Wired	5-15P										
				1		0	N/A	N/A	N/A	1	4.6	5.6	15	Hard-Wired	6-15P										
														2	208	1636	7.9		8.5	10.6	15	Hard-Wired	6-15P		
						2	230	2000	8.7		9.3	11.6	15	Halu-Wileu	0-155										
		1														3	208	2454	11.8]	12.4	15.5	20	Hard-Wired	6-20P
208-230V/1ph/60Hz	197	197	197	197	197	4	22.2	0.6	0.6	0.08	0.08	0.08	3	230	3000	13.0	4.6	13.6	17.1	20	Haru-wireu	0-206			
												4	208	3271	15.7]	16.3	20.4	25	Hard-Wired	6-30P				
												4	230	4000	17.4		18.0	22.5	25	Tialu-Wileu	0-30F				
						5	208	4089	19.7		20.3	25.3	30	Hard-Wired	6-30P										
					0		230	5000	21.7		22.3	27.9	- 30	Tialu-Wileu	0-30P										
						0	N/A	N/A	N/A		4.0	4.8	15	Hard-Wired	7-20P										
265V/1ph/60Hz	240	3.32	18.8	0.67	0.08	2	265	2655	10.0	4.0	10.7	13.4	15	Hard-Wired	7-20P										
						3	265	3983	15.0		15.7	19.6	20	Hard-Wired	7-20P										

Electrical Data - CMHG12															
Power Supply		Compressor		Indoor Fan Motor		Electric Heat						ectrical F	Ratings Standard	Optional	
Voltage	Min.	RLA	LRA	FLA	Нр	Htr #	Htr V	Htr W	Htr A	TCA	THA	MCA	MOCP	Connection	Plug
115V/1ph/60Hz	104	11.8	63	1.4	0.09	0	N/A	N/A	N/A	13.2	13.2	16.2	25	Hard-Wired	5-20P
208-230V/1ph/60Hz	197	5.6	32.5	0.6	0.08	0	N/A	N/A	N/A	6.2	6.2	7.6	15	Hard-Wired	6-15P
265-277V/1ph/60Hz	240	4.2	31.5	0.67	0.08	0	N/A	N/A	N/A	4.9	4.9	5.9	15	Hard-Wired	7-20P

	Optional Electrical Plugs (SER)							
	LINE	15 AM	PERE	20 AMF	PERE	30 AMPERE		
VOLTAGE	NO.	RECEPTACLE	PLUG	RECEPTACLE	PLUG	RECEPTACLE	PLUG	
125V	5	5-15R U	5-15P	5-20R	5-20P	5-20R	5-30P	
250V	6	6-15R	6-15P	6-20R	6-20P	6-30R	6-30P	
277V	7	7-15R	7-15P	7-20R	7-20P	7-30R	7-30P	

Miscellaneous Product Data

Return Air Filter	1-Washable Metal Mesh
RA Filter Dims	10 3/4" x 30 3/4" x 3/8"
Shipping Weight	140 lbs (64 kg)
Shipping Dims	49 3/4" × 29" × 14"
Elec Ht (Optional)	EWT ≤ 50°F
Compressor Type	Rotary/R-410A
CMHG08 Ref Chrg	19 Ounces
CMHG12 Ref Chrg	23 Ounces



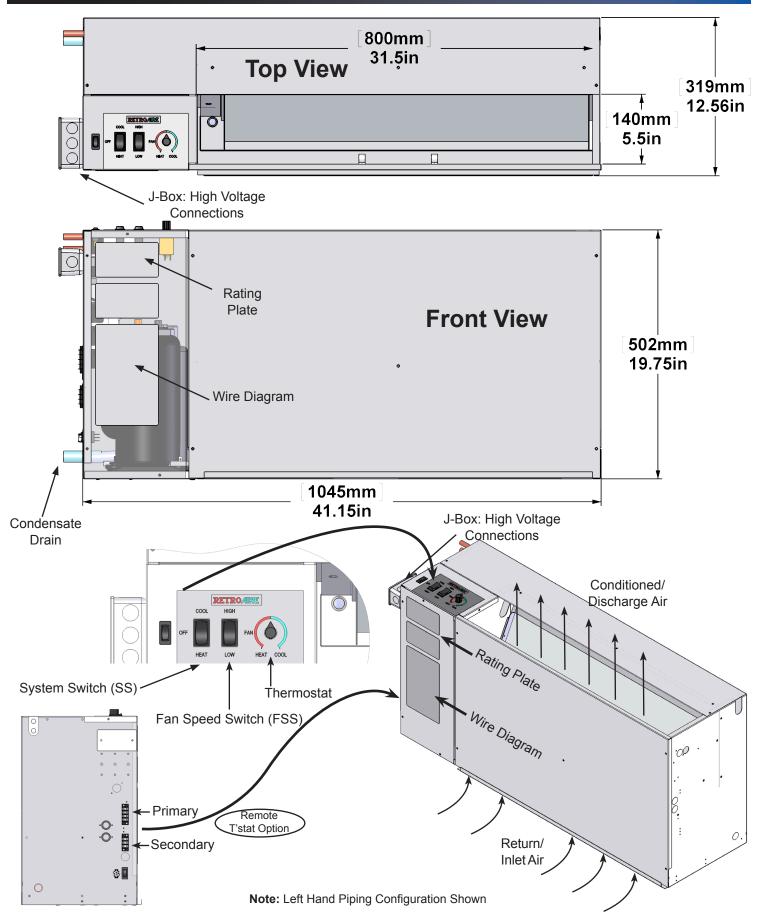
Standard Operating Limits								
Air Temp Limits	Cooling °F (°C)	Heating °F (°C)						
Minimum Ambient Air	50 (10)	50 (10)						
Rated Ambient Air	80.7 (27)	68 (20)						
Maximum Ambient Air	100 (38)	85 (30)						
Minimum EAT DB/WB	67/57 (20/14)	N/A						
Rated EAT DB/WB	80.7/66.3 (27/19.1)	68 (20)						
Maximum EAT DB/WB	100/83 (38/29)	80 (27)						
Water Temp Limits	Cooling °F (°C)	Heating °F (°C)						
Minimum EWT	60 (16)	60 (16)						
Maximum EWT	95 (35)	90 (33)						
Note: EAT & Ambient Temp surrounding the unit, are the same value								

Job-Guide Specifications

- Standard Warranty: 1 Year Parts & 5 Year Compressor
 High Pressure Switch with Integral Compressor Lockout Relay (Cycle SS Off/On to Reset)
- Low Water Temperature Cut-out Switch with Integral Compressor Lockout Relay (Cycle SS Off/On to Reset)
- Indoor Coil Freeze Protection
- Single Stage Heating Operation (w/ or w/o Electric Heat)
- DOE Performance Qualified & Listed
- ETL-US & Canada Listed for Safety to UL484 Standard
- Directly replaces Friedrich/Climate Master "801" Series
- Reversing Valve Energized in Cooling
- Meets ASHRAE 90.1-2010 for New Construction efficiency

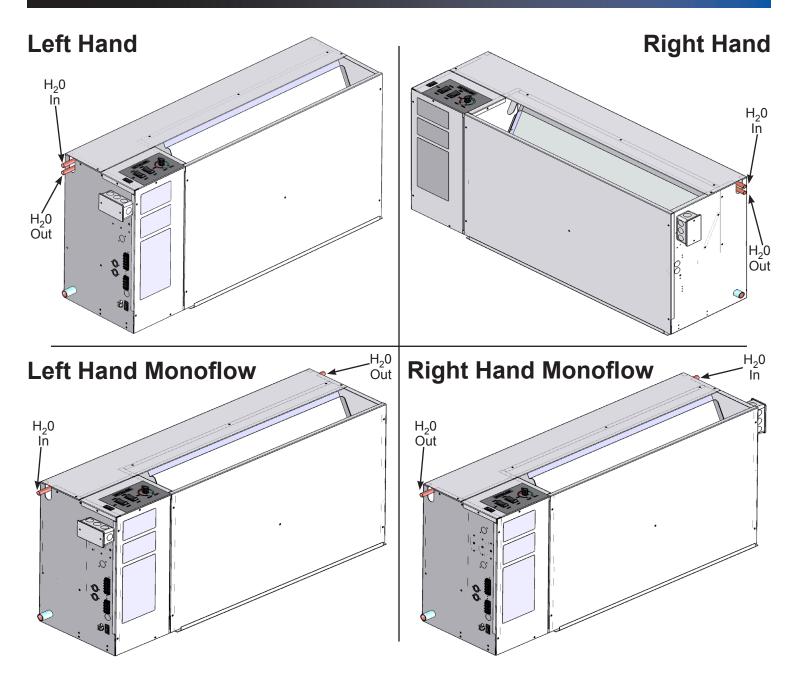
NOTICE: Due to ongoing product development; design, specification and performance data listed within this submittal document are subject to change without notice. For the most current performance data, please refer to ECR International listings of certified products in the AHRI directory, or consult the factory.

Dimensional Specifications



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Water Coil Piping Configuration Options & Notes





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