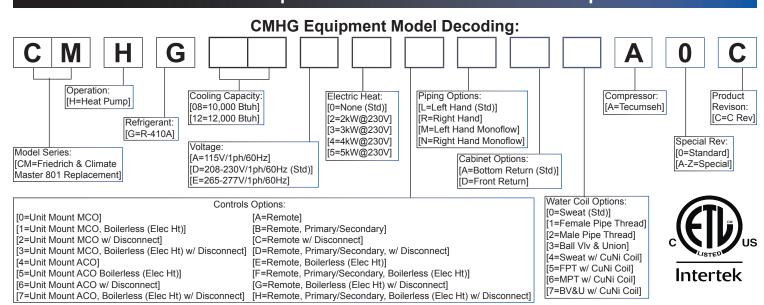


# Model: CMHG

## **Specifications & Submittal Sheet**

### **New Construction/Replacement Water Source Heat Pump Console**



Important Selection Notes	Order Qty
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	



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

DOE Performance Data (AHRI/ISO 13256-1)									
	Cooling	Sensible	EER	Hoot Bump	СОР	Indoo	or		
Model	Btuh (kW)	Heat Ratio		Heat Pump Btuh (kW)		Airflow	Sound		
						CFM (L/S)	dB(A)		
CMHG08	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

#### **Electrical, Dimensional and Miscellaneous Specifications**

Electrical Data - CMHG08																					
Power Supply		Comp	*0000*	Indoo	r Fan		Electric Heat					Unit Ele	ectrical F	Ratings							
Power Supply		Comp	162201	Mo	tor		Elect	nic neat		TCA	THA	MCA	МОСР	Standard	Optional						
Voltage	Min.	RLA	LRA	FLA	Нр	Htr#	Htr V	Htr W	Htr A	107	1117	WICA	WICCI	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						
						0	N/A	N/A	N/A		4.6	5.6	15	Hard-Wired	6-15P						
	197 4									2	208	1636	7.9		8.5	10.6	15	Hard-Wired	6-15P		
						^	230	2000	8.7		9.3	11.6	15	naru-vvireu	0-15F						
							3	208	2454	11.8		12.4	15.5	20	Hard-Wired	6-20P					
208-230V/1ph/60Hz		4	22.2	0.6	0.08		230	3000	13.0	4.6	13.6	17.1	20	naru-vvireu	0-20P						
												4	208	3271	15.7		16.3	20.4	25	Hard-Wired	6-30P
						_ 4	230	4000	17.4		18.0	22.5	25	naru-vvireu	0-30F						
						5	208	4089	19.7		20.3	25.3	30	Hard-Wired	6-30P						
					٦	230	5000	21.7		22.3	27.9	30	riaru-vviieu	0-30F							
					0.08	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		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															
Dawar Cumply	Compressor Indoor Fan		Electric Heat			Unit Electrical Ratings									
Power Supply		Compi	ressor	Mo	tor		Elect	лс пеас		TCA	THA	MCA	МОСР	Standard	Optional
Voltage	Min.	RLA	LRA	FLA	Нр	Htr#	Htr V	Htr W	Htr A	ICA	ІПА	IVICA	WIOCF	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	5-15P W G	5-20R ( ) ( ) ( ) ( ) ( ) ( )	5-20P W I	5-20R ( ) ( ) ( ) ( ) ( ) ( )	5-30P WF I			
250V	6	6-15R	6-15P	6-20R	6-20P (I -	6-30R	6-30P			
277V	7	7-15R 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7-15P <b>G</b>	7-20R (V)	7-20P G W	7-30R G \( \frac{\rightarrow{\text{G}_{\text{\$\sigma\$}}}}{\rightarrow{\text{\$\sigma\$}_{\text{\$\ext{\$\text{\$\ext{\$\ext{\$\ext{\$\ext{\$\text{\$\exitt{\$\ext{\$\ext{\$\ext{\$\ext{\$\exitt{\$\ext{\$\ext{\$\ext{\$\exitt{\$\ext{\$\ext{\$\ext{\$\exitt{\$\ext{\$\exitt{\$\ext{\$\ext{\$\exitt{\$\exitt}\$\$\$\ext{\$\ext{\$\ext{\$\ext{\$\ext{\$\ext{\$\ext{\$\ext{\$\ext{\$\exitt{\$\ext{\$\ext{\$\exitt{\$\exitt{\$\exitt{\$\ext{\$\exittitt{\$\exitt{\$\exitt{\$\exittitt{\$\exitt{\$\exittitt{\$\exitt{\$\exittitt{\$\exitt{\$\exitt{\$\exitt{\$\exittitt{\$\exitt{\$\exitt{\$\exitt{\$\exitt{\$\exittitt{\$\exitt{\$\exittit{\$\exitt{\$\exittit{\$\exittitt{\$\exittit{\$\exitt{\$\exittitt{\$\exittitt{\$\exittit{\$\exitt{\$\exittit{\$\	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)						
<b>Shipping Dims</b>	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)						

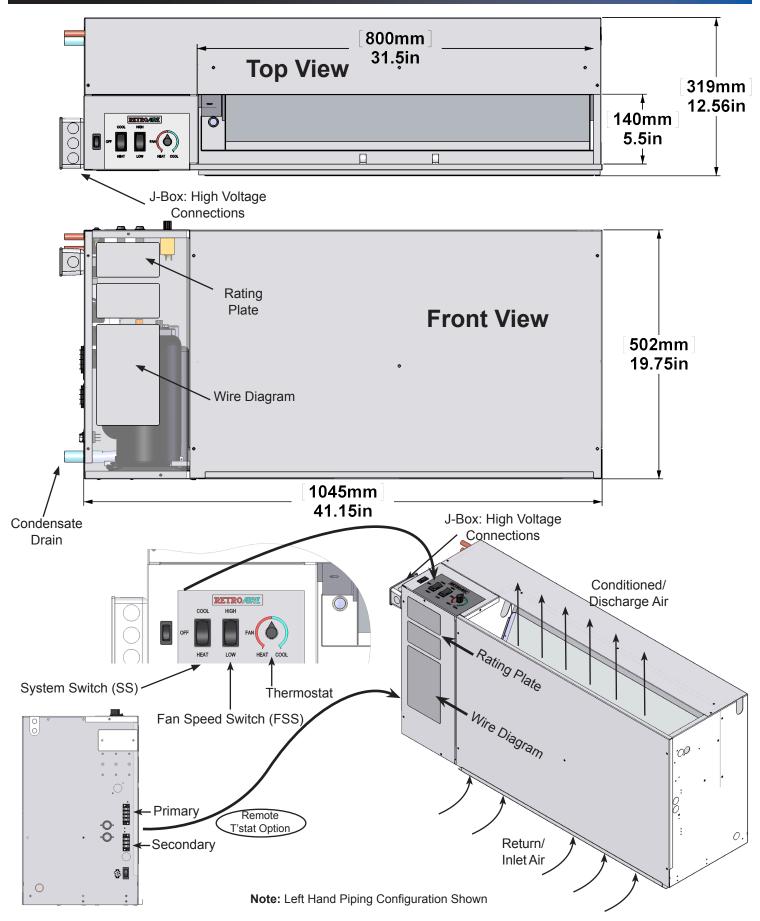
Note: EAT & Ambient Temp surrounding the unit, are the same value

#### **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

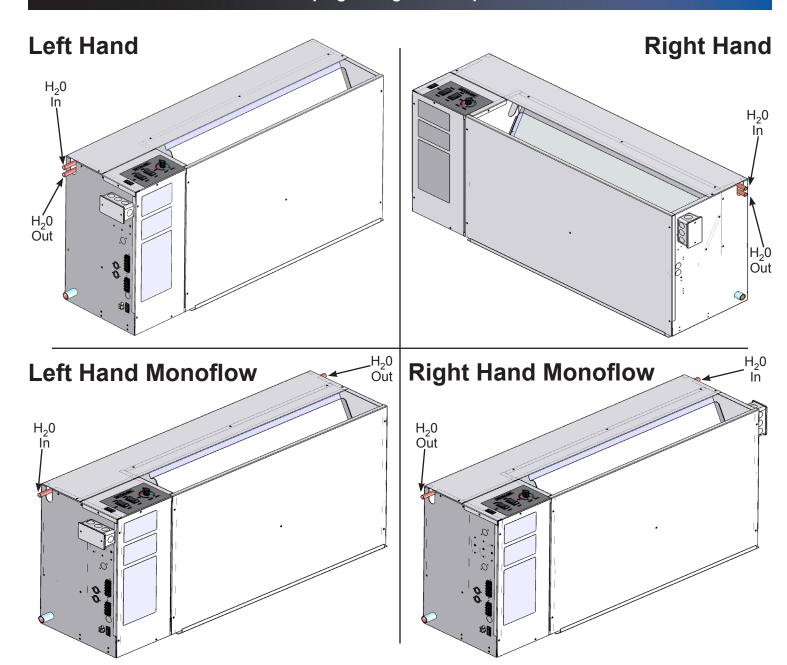
**NOTICE**: Due to ongoing product development; design, specification and performance data listed within this submittal document are subject to change without notice. For the most current performance data, please refer to ECR International listings of certified products in the AHRI directory, or consult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

#### **Dimensional Specifications**



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#### **Water Coil Piping Configuration Options & Notes**





2201 Dwyer Avenue • Utica, NY 13501 Phone: 800.228.9364 • Web: RetroAire.com