


Specifications & Submittal Sheet

New Construction/Replacement Water Source Heat Pump Console

CWHG Equipment Model Decoding:

C	W	H	G							
Operation: [H=Heat Pump]		Refrigerant: [G=R-410A]		Cooling Capacity: [10=10,000 Btuh] [13=12,000 Btuh]		Electric Heat: [0=None (Std)] [2=2kW@230V] [3=3kW@230V] [4=4kW@230V] [5=5kW@230V] [CW10 ONLY]		Piping Options: [L=Left Hand (Std)] [R=Right Hand] [M=Left Hand Monoflow] [N=Right Hand Monoflow]		Cabinet Options: [A=Bottom Return (Std)] [B=BR w/ Cabinet] [C=BR w/ Locking Cab] [D=Front Return]
Model Series: [CW=Friedrich & Climate Master "CW" & "800" Replacement]		Voltage: [A=115V/1ph/60Hz] [D=208-230V/1ph/60Hz (Std)] [E=265-277V/1ph/60Hz]								
Controls Options: [0=Unit Mount MCO] [A=Remote] [1=Unit Mount MCO, Boilerless (Elec Ht)] [B=Remote, Primary/Secondary] [2=Unit Mount MCO w/ Disconnect] [C=Remote w/ Disconnect] [3=Unit Mount MCO, Boilerless (Elec Ht) w/ Disconnect] [D=Remote, Primary/Secondary, w/ Disconnect] [4=Unit Mount ACO] [E=Remote, Boilerless (Elec Ht)] [5=Unit Mount ACO Boilerless (Elec Ht)] [F=Remote, Primary/Secondary, Boilerless (Elec Ht)] [6=Unit Mount ACO w/ Disconnect] [G=Remote, Boilerless (Elec Ht) w/ Disconnect] [7=Unit Mount ACO, Boilerless (Elec Ht) w/ Disconnect] [H=Remote, Primary/Secondary, Boilerless (Elec Ht) w/ Disconnect]										Water Coil Options: [0=Sweat (Std)] [1=Female Pipe Thread] [2=Male Pipe Thread] [3=Ball Vlv & Union] [4=Sweat w/ CuNi Coil] [5=FPT w/ CuNi Coil] [6=MPT w/ CuNi Coil] [7=BV&U w/ CuNi Coil]

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 240008208)	Thermostat, T9000, Wireless, Battery, Single Stage, 1-Ht/1-CI, 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)	Kit, Cabinet Assembly, 48", Left Hand Piping (PN 550000199)
Isolation Ball Valve, 1/2", Sweat Connections (PN 107000001)	Kit, Cabinet Assembly, 48", Right Hand Piping (PN 550000200)

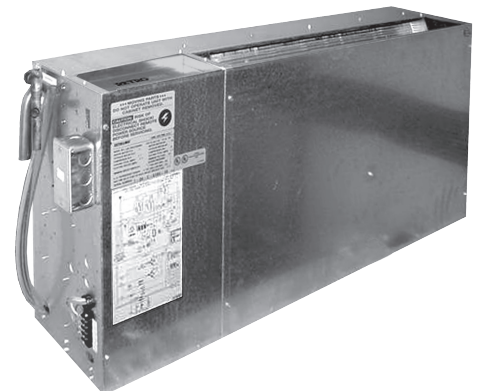
Important Selection Notes

Order Qty

- Electric Heat available on the CWHG10, 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

DOE Performance Data (AHRI/ISO 13256-1)

Model	Cooling Btuh (kW)	Sensible Heat Ratio	EER	Heat Pump Btuh (kW)	COP	Indoor	
						Airflow CFM (L/S)	Sound dB(A)
CWHG10	10,000 (2.9)	0.77	12.2	11,000 (3.2)	4.3	400 (189)	45
CWHG13	12,000 (3.5)	0.85	12.2	13,600 (4.0)	4.3	450 (212)	48



To: _____
 Date: _____
 From: _____
 Contact: _____

Project: _____
 Customer: _____
 Location: _____
 Engineer: _____
 Unit Tag# _____

For Your: ☐ Reference

☐ Approval

☐ Construction

Electrical, Dimensional and Miscellaneous Specifications



















Electrical Data - CWHG10

Power Supply		Compressor		Indoor Fan Motor		Electric Heat				Unit Electrical Ratings					
										TCA	THA	MCA	MOCP	Standard Connection	Optional Plug
Voltage	Min.	RLA	LRA	FLA	Hp	Htr #	Htr V	Htr W	Htr A						
115V/1ph/60Hz	104	8	45.6	1.4	0.09	0	N/A	N/A	N/A	9.4	N/A	11.4	15	Hard-Wired	5-15P
208-230V/1ph/60Hz	197	4	22.2	0.6	0.08	0	N/A	N/A	N/A	4.6	N/A	5.6	15	Hard-Wired	6-15P
						2	208	1636	7.9		8.5	10.6	15	Hard-Wired	6-15P
							230	2000	8.7		9.3	11.6			
						3	208	2454	11.8		12.4	15.5	20	Hard-Wired	6-20P
							230	3000	13.0		13.6	17.1			
						4	208	3271	15.7		16.3	20.4	25	Hard-Wired	6-30P
							230	4000	17.4		18.0	22.5			
						5	208	4089	19.7		20.3	25.3	30	Hard-Wired	6-30P
							230	5000	21.7		22.3	27.9			
265V/1ph/60Hz	240	3.32	18.8	0.67	0.08	0	N/A	N/A	N/A	4.0	N/A	4.8	15	Hard-Wired	7-20P
						2	265	2655	10.0		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 - CWHG13

Power Supply		Compressor		Indoor Fan Motor		Electric Heat				Unit Electrical Ratings					
										TCA	THA	MCA	MOCP	Standard Connection	Optional Plug
Voltage	Min.	RLA	LRA	FLA	Hp	Htr #	Htr V	Htr W	Htr A						
115V/1ph/60Hz	104	9.2	53	1.4	0.09	0	N/A	N/A	N/A	10.6	N/A	12.9	20	Hard-Wired	5-20P
208-230V/1ph/60Hz	197	5.1	24	0.6	0.08	0	N/A	N/A	N/A	5.7	N/A	7.0	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	N/A	5.9	15	Hard-Wired	7-20P

Optional Electrical Plugs (Special - SER)

VOLTAGE	LINE NO.	15 AMPERE		20 AMPERE		30 AMPERE	
		RECEPTACLE	PLUG	RECEPTACLE	PLUG	RECEPTACLE	PLUG
125V	5						
250V	6						
277V	7						

Miscellaneous Product Data

Return Air Filter	1-Washable Metal Mesh
Cab RA Filter Dim	32" x 9" x 3/8"
Elec Ht (Optional)	EWT ≤ 50°F
Shipping Dims	46 1/2" x 21" x 11 1/2"
CWHG10 Ship Wt	160 lbs (73 kg)
CWHG13 Ship Wt	165 lbs (75 kg)
Compressor Type	Rotary/R-410A
CWHG10 Ref Chrg	19 Ounces
CWHG13 Ref Chrg	23 Ounces



Made in the USA

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)

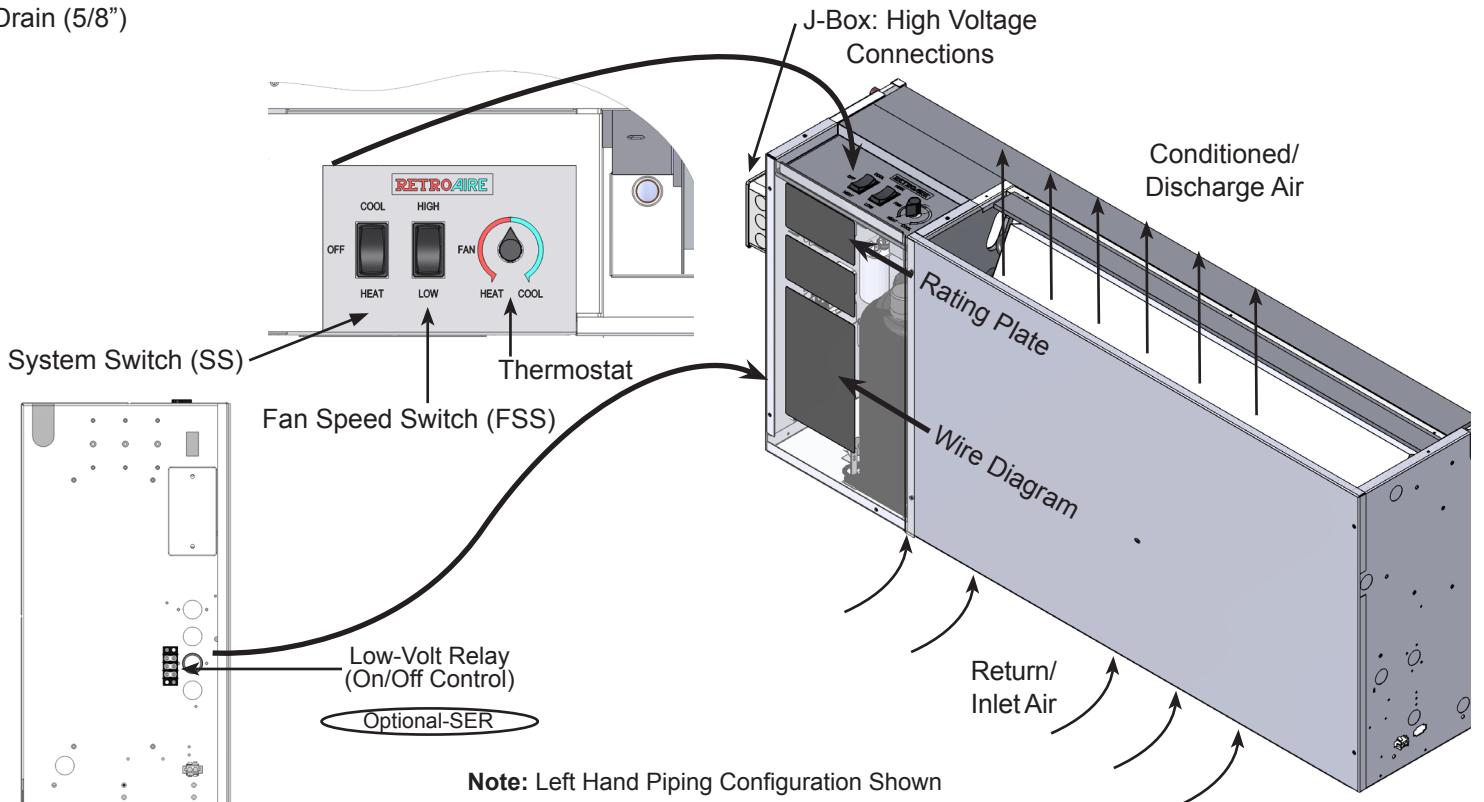
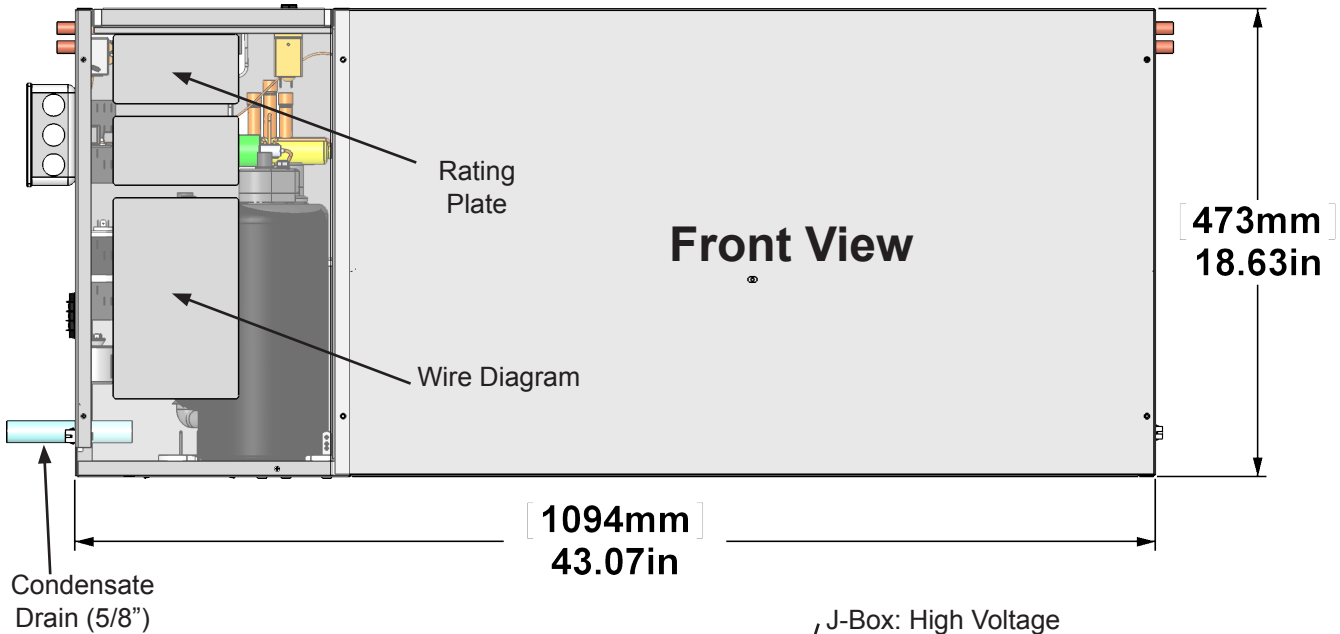
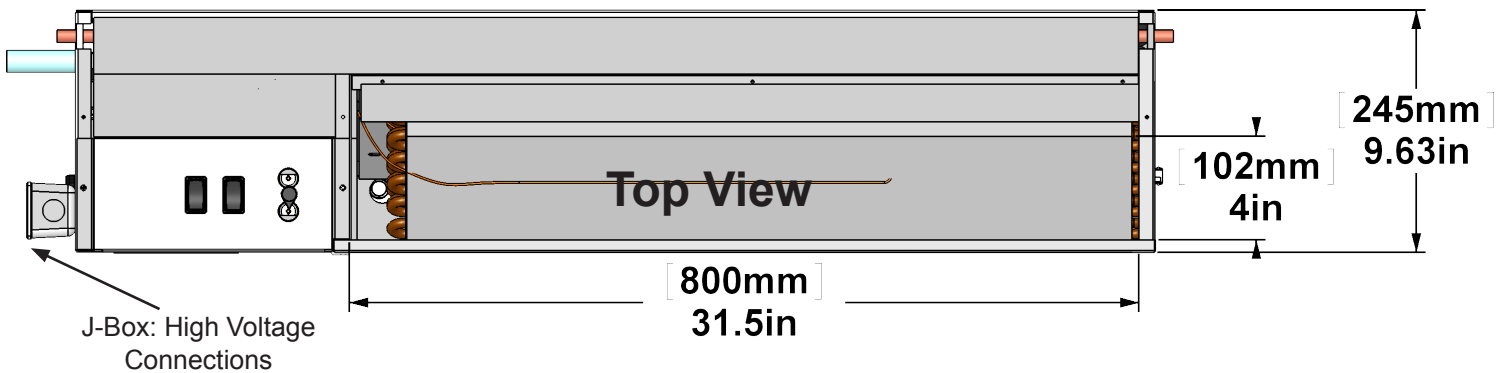
Note: EAT & Ambient Temp surrounding the unit, are the same value

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
- Drop-in for Friedrich/Climate Master "CW" & "800" Series
- Reversing Valve Energized in Cooling
- Meets ASHRAE 90.1-2010 for New Construction efficiency

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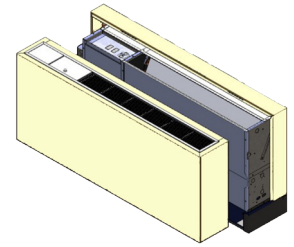
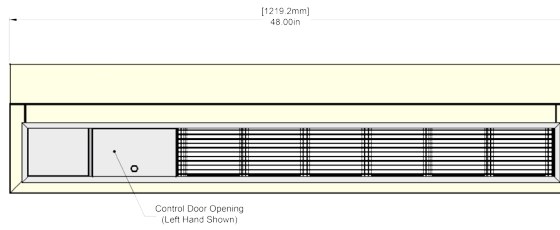
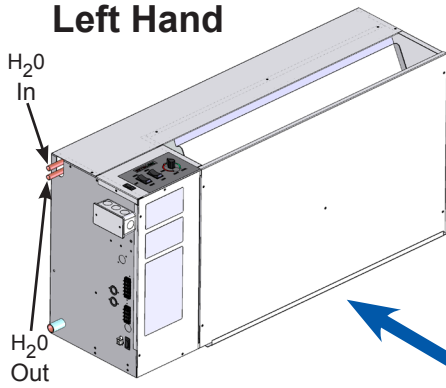
Dimensional Specifications



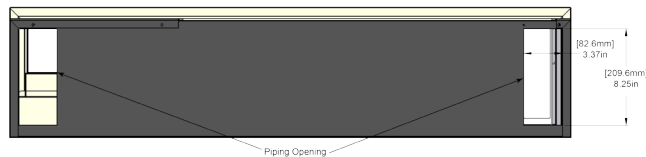
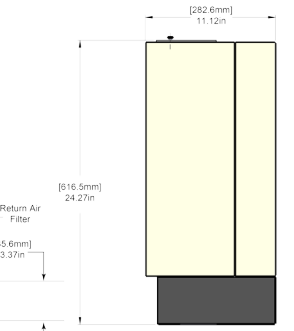
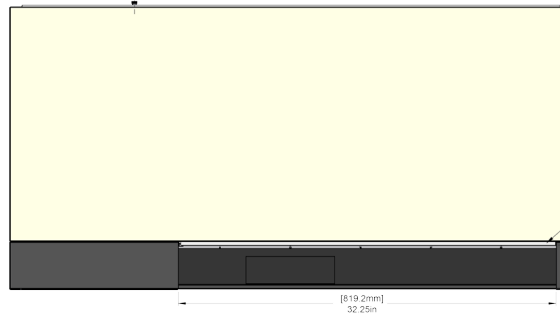
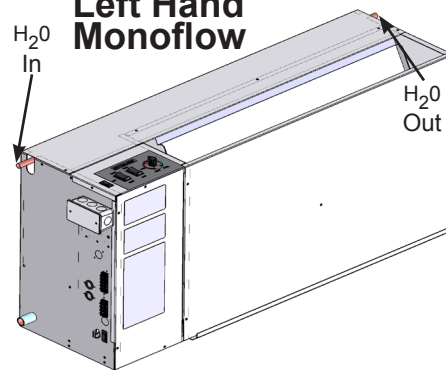
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Water Coil Piping Options & Optional Cabinet Dimensions

Left Hand

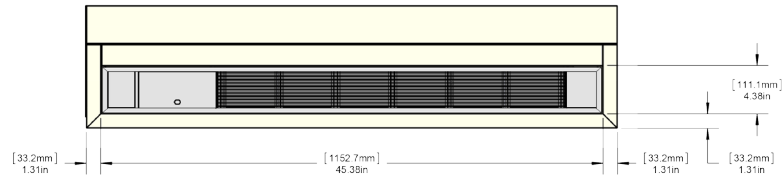
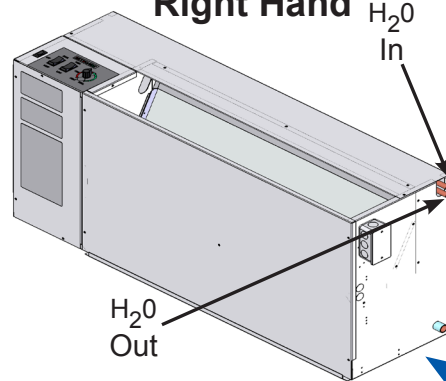


Left Hand Monoflow



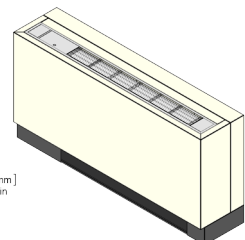
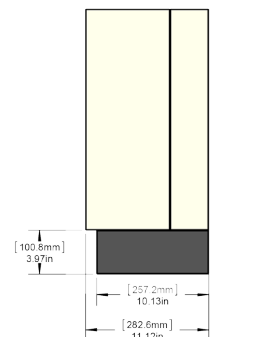
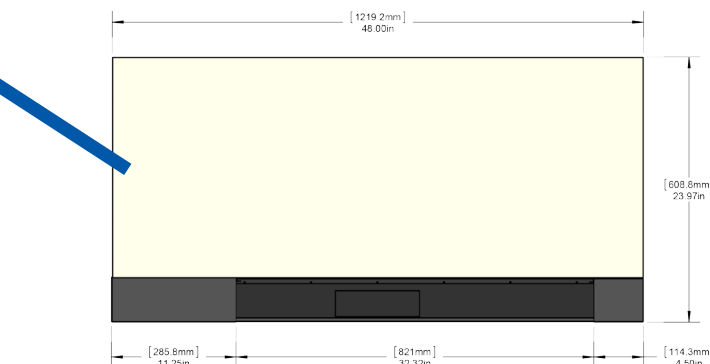
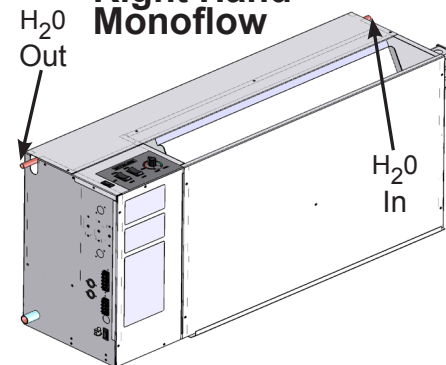
**Left Hand
Cabinet Kit
#550000199**

Right Hand



**Right Hand
Cabinet Kit
#550000200**

Right Hand Monoflow



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