

Specifications & Submittal Sheet

New Construction/Replacement Water Source Heat Pump Console

WMHG Equipment Model Decoding:

W	M	H	G							A	A	0	C																
Model Series: [WM=McQuay, Singer, Climate Control WM Replacement]		Operation: [H=Heat Pump]	Refrigerant: [G=R-410A]	Cooling Capacity: [09=10,000 Btuh] [12=12,000 Btuh]		Voltage: [A=115V/1ph/60Hz] [D=208-230V/1ph/60Hz (Std)] [E=265-277V/1ph/60Hz]		Electric Heat: [0=None (Std)] [2=2kW@230V] [3=3kW@230V]		Piping Options: [L=Left Hand (Std)] [R=Right Hand] [M=Left Hand Monoflow] [N=Right Hand Monoflow]		Cabinet Options: [A=Bottom Return (Std)]	Compressor: [A=Tecumseh]	Product Revision: [C=C Rev]															
<p>Controls Options:</p> <table border="0"> <tr> <td>[0=Unit Mount MCO]</td> <td>[A=Remote]</td> </tr> <tr> <td>[1=Unit Mount MCO, Boilerless (Elec Ht)]</td> <td>[B=Remote, Primary/Secondary]</td> </tr> <tr> <td>[2=Unit Mount MCO w/ Disconnect]</td> <td>[C=Remote w/ Disconnect]</td> </tr> <tr> <td>[3=Unit Mount MCO, Boilerless (Elec Ht) w/ Disconnect]</td> <td>[D=Remote, Primary/Secondary, w/ Disconnect]</td> </tr> <tr> <td>[4=Unit Mount ACO]</td> <td>[E=Remote, Boilerless (Elec Ht)]</td> </tr> <tr> <td>[5=Unit Mount ACO Boilerless (Elec Ht)]</td> <td>[F=Remote, Primary/Secondary, Boilerless (Elec Ht)]</td> </tr> <tr> <td>[6=Unit Mount ACO w/ Disconnect]</td> <td>[G=Remote, Boilerless (Elec Ht) w/ Disconnect]</td> </tr> <tr> <td>[7=Unit Mount ACO, Boilerless (Elec Ht) w/ Disconnect]</td> <td>[H=Remote, Primary/Secondary, Boilerless (Elec Ht) w/ Disconnect]</td> </tr> </table>														[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]
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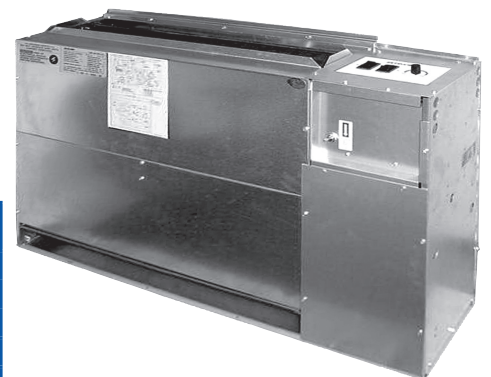
Please indicate the quantity of any field-installed accessory, desired for each unit

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)	Isolation Ball Valve, 1/2", Sweat Connections (PN 107000001)

Important Selection Notes

Order Qty

- Electric Heat available on the WMHG09D (208/230V) Only
- 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)
WMHG09	10,000 (2.9)	0.77	11.2	11,000 (3.2)	4.2	400 (189)	45
WMHG12	12,000 (3.5)	0.85	11.2	13,600 (4.0)	4.2	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 - WMHG09

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	9.4	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	4.6	5.6	15	Hard-Wired	6-15P
						2	208	1636	7.9		8.5	10.6	15	Hard-Wired	6-15P
						3	230	2000	8.7		9.3	11.6			
							208	2454	11.8		12.4	15.5	20	Hard-Wired	6-20P
							230	3000	13.0		13.6	17.1			
265V/1ph/60Hz	240	3.32	18.8	0.67	0.08	0	N/A	N/A	N/A	4.0	4.0	4.8	15	Hard-Wired	7-20P

Electrical Data - WMHG12

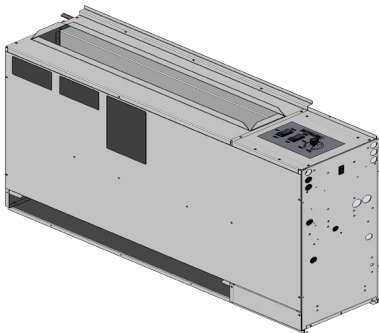
Power Supply		Compressor		Indoor Fan Motor		Electric Heat				Unit Electrical Ratings					
										TCA	THA	MCA	MOCP	Standard Connection	Optional Plug
Voltage	Min.	RLA	LRA	FLA	Hp	Htr #	Htr V	Htr W	Htr A						
115V/1ph/60Hz	104	11.8	63	1.4	0.09	0	N/A	N/A	N/A	13.2	13.2	16.2	25	Hard-Wired	5-20P
208-230V/1ph/60Hz	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)

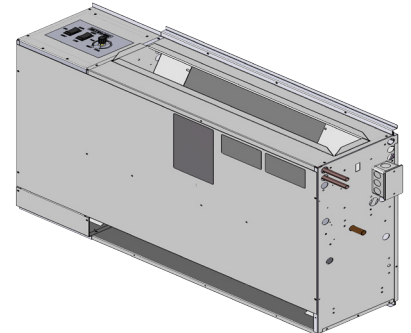
VOLTAGE	LINE NO.	15 AMPERE		20 AMPERE		30 AMPERE	
		RECEPTACLE	PLUG	RECEPTACLE	PLUG	RECEPTACLE	PLUG
125V	5	5-15R 	5-15P 	5-20R 	5-20P 	5-30R 	5-30P 
250V	6	6-15R 	6-15P 	6-20R 	6-20P 	6-30R 	6-30P 
277V	7	7-15R 	7-15P 	7-20R 	7-20P 	7-30R 	7-30P 

Miscellaneous Product Data

Return Air Filter	1-Washable Metal Mesh
Cab RA Filter Dim	27 7/8" x 9 7/8" x 3/8"
Elec Ht (Optional)	EWT ≤ 50°F
Shipping Dims	42 1/2" x 28" x 11 1/2"
WMHG09 Ship Wt	150 lbs (68 kg)
WMHG12 Ship Wt	160 lbs (73 kg)
Compressor Type	Rotary/R-410A
WMHG09 Ref Chrg	19 Ounces
WMHG12 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)

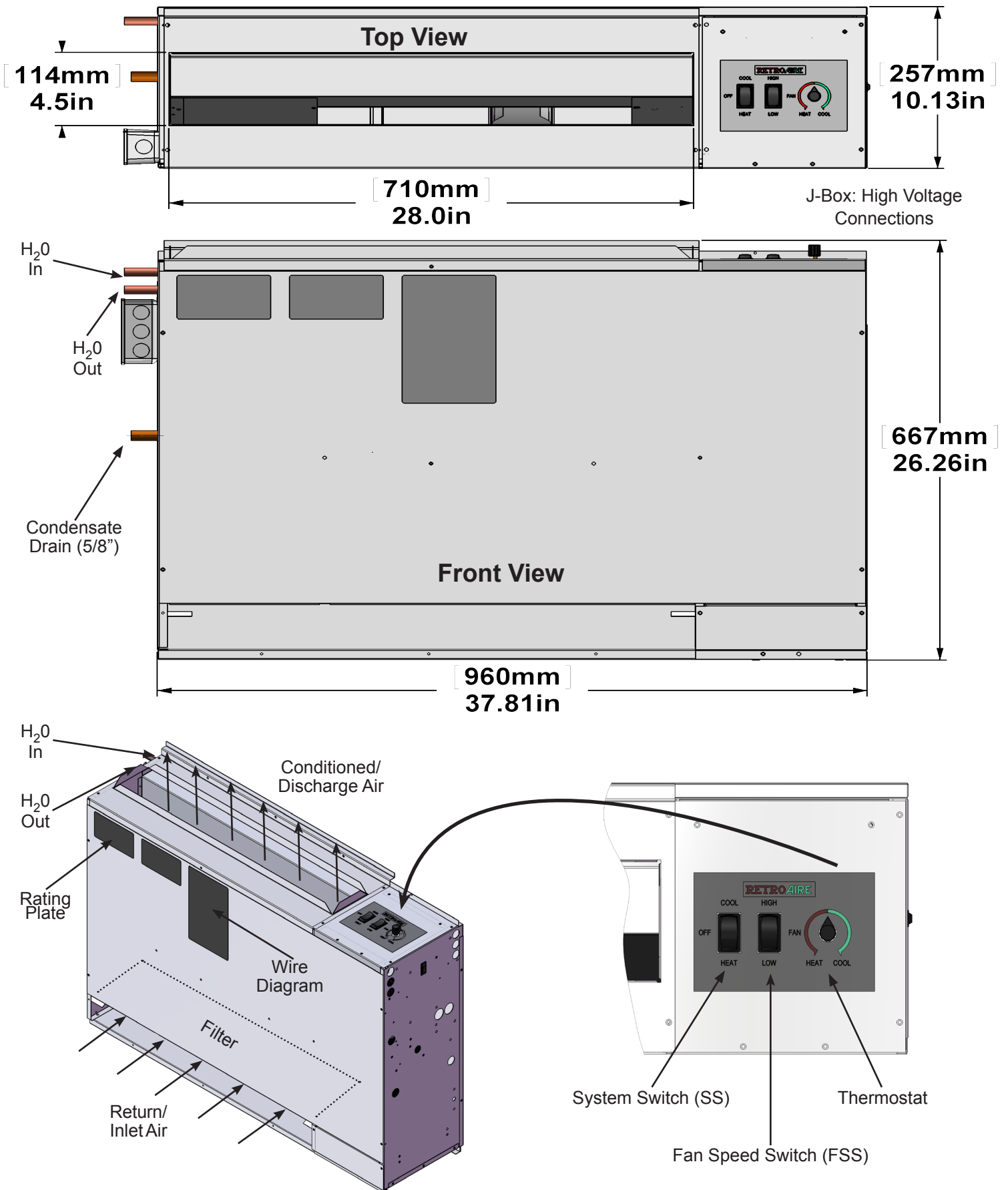
Note: EAT & Ambient Temp surrounding the unit, are the same value

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 McQuay, Singer & Climate Control "WM" Series
- Reversing Valve Energized in Cooling
- Meets ASHRAE 90.1-2010 for New Construction efficiency

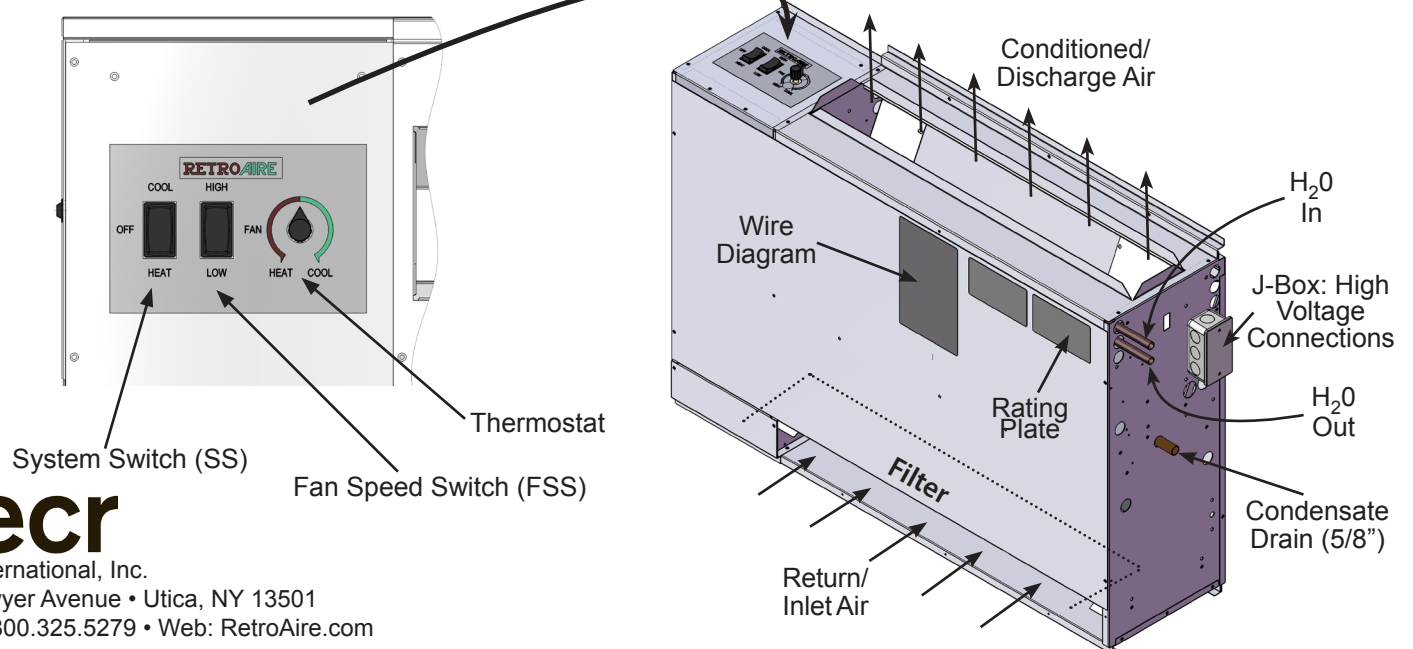
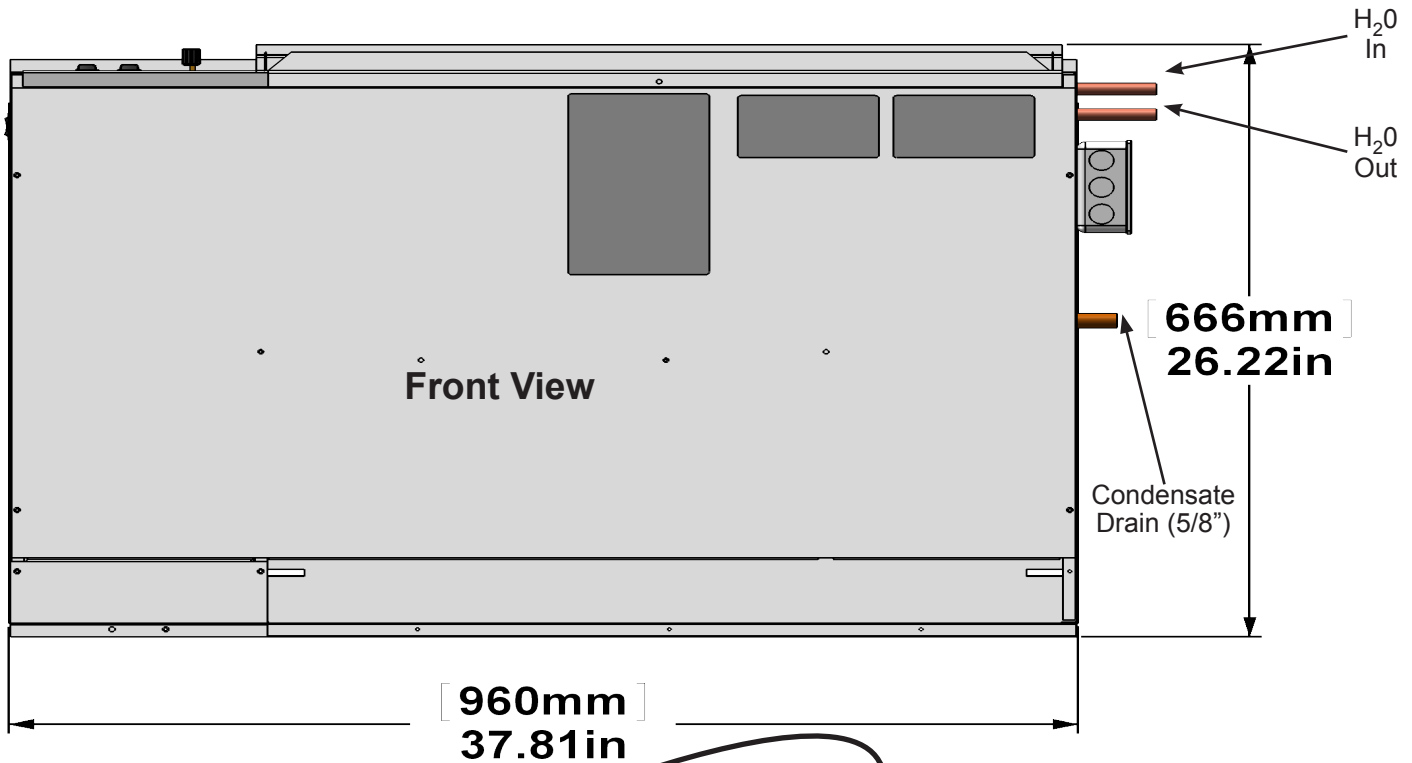
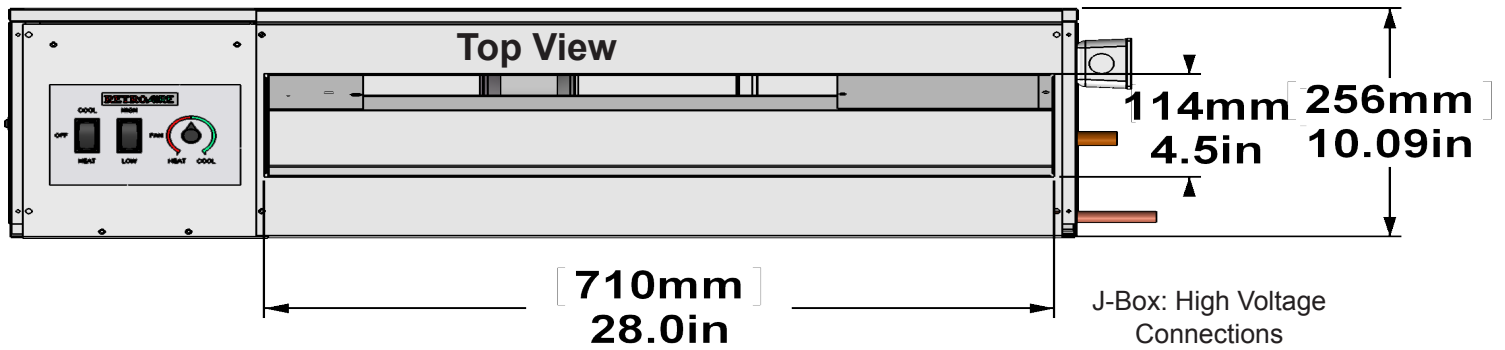
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Dimensional Specifications (Left Hand)



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Dimensional Specifications (Right Hand)



ECR International, Inc.
2201 Dwyer Avenue • Utica, NY 13501
Phone: 800.325.5279 • Web: RetroAire.com

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