

Specifications & Submittal Sheet

New Construction/Replacement Water Source Heat Pump Console

CWHG Equipment Model Decoding:

| | | | | | | | | | | | | |
|--|----------|---|----------|---|--|--|--|---|--|---|----------|--------------------------------|
| C | W | H | G | | | | | | | A | 0 | C |
| 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] | | Piping Options: [L=Left Hand (Std)] [R=Right Hand] [M=Left Hand Monoflow] [N=Right Hand Monoflow] | | Compressor: [A=Tecumseh] | | Product Revision: [C=C Rev] |
| 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: | | Water Coil Options: | | Cabinet Options: | | Special Rev: | | |
| | | | | [0=Unit Mount MCO] [1=Unit Mount MCO, Boilerless (Elec Ht)] [2=Unit Mount MCO w/ Disconnect] [3=Unit Mount MCO, Boilerless (Elec Ht) w/ Disconnect] [4=Unit Mount ACO] [5=Unit Mount ACO Boilerless (Elec Ht)] [6=Unit Mount ACO w/ Disconnect] [7=Unit Mount ACO, Boilerless (Elec Ht) w/ Disconnect] | | [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] | | [A=Bottom Return (Std)] [B=BR w/ Cabinet] [C=BR w/ Locking Cab] [D=Front Return] | | [A=Remote] [B=Remote, Primary/Secondary] [C=Remote w/ Disconnect] [D=Remote, Primary/Secondary, w/ Disconnect] [E=Remote, Boilerless (Elec Ht)] [F=Remote, Primary/Secondary, Boilerless (Elec Ht)] [G=Remote, Boilerless (Elec Ht) w/ Disconnect] [H=Remote, Primary/Secondary, Boilerless (Elec Ht) w/ Disconnect] | | [0=Standard] [A-Z=Special] |



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-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) | 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) |

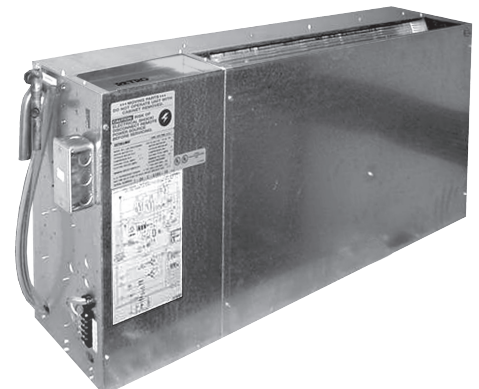
Important Selection Notes

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 | 11.2 | 11,000 (3.2) | 4.2 | 400 (189) | 45 |
| CWHG13 | 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 - 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 | 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 |
| | | | | | | | 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 | 4.0 | 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 | 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 (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) |

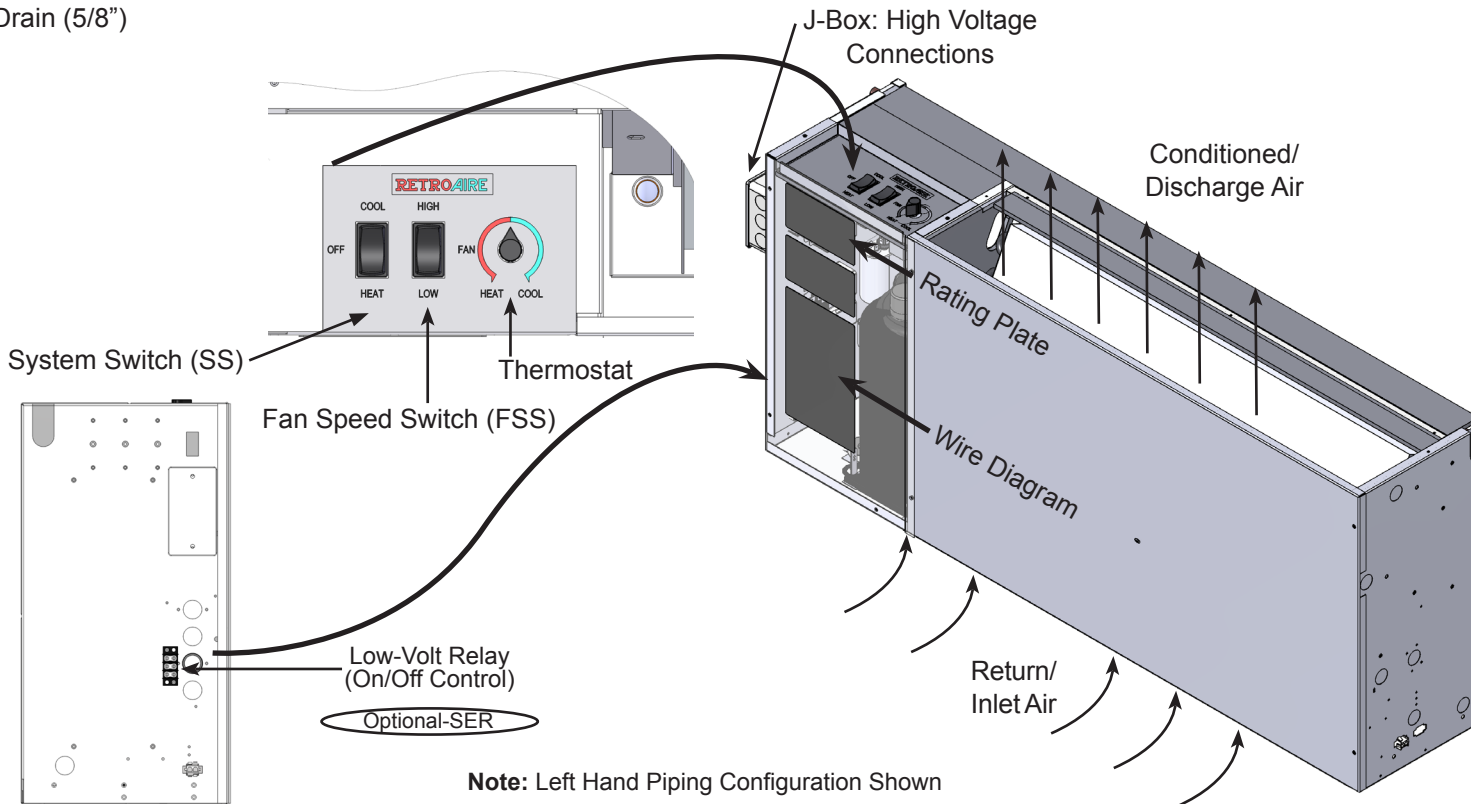
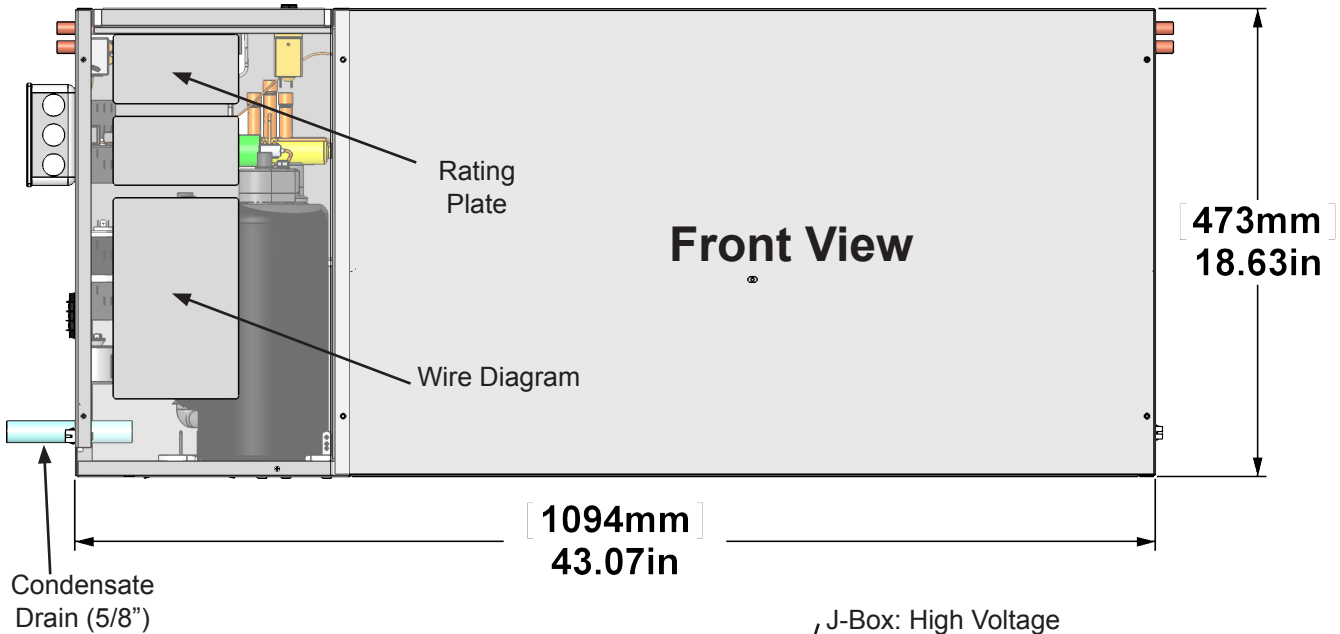
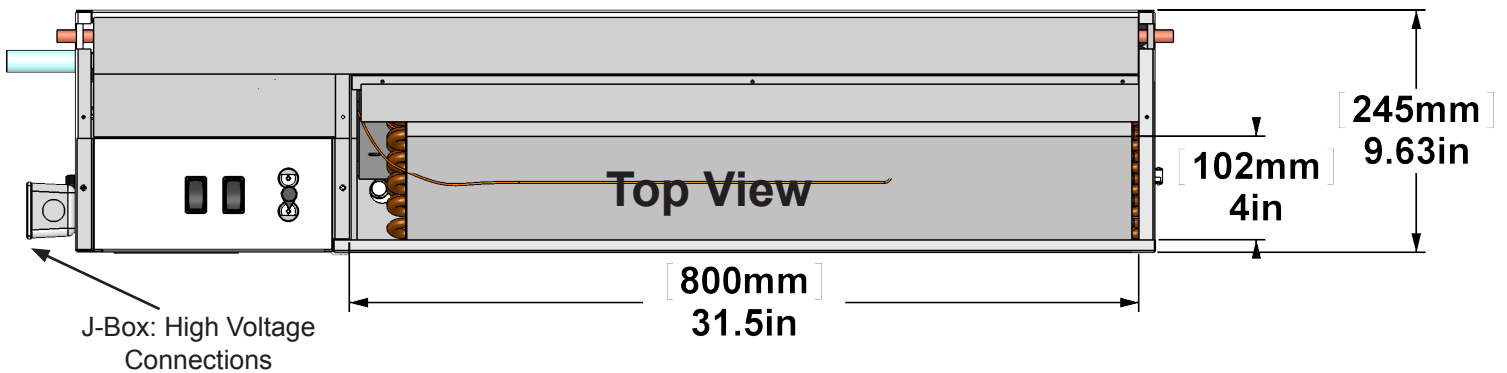
Note: EAT & Ambient Temp surrounding the unit, are the same value

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

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.

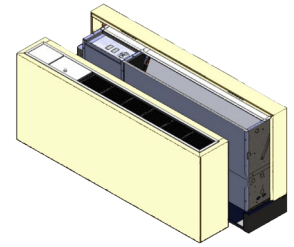
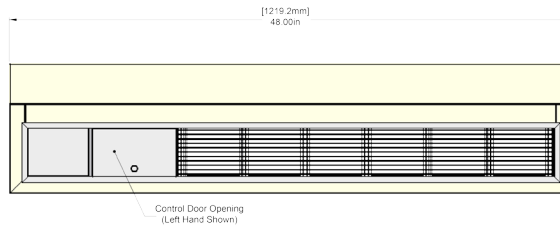
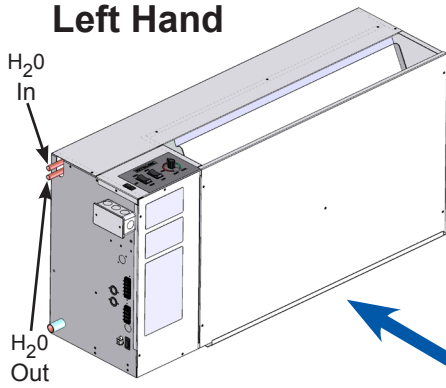
Dimensional Specifications



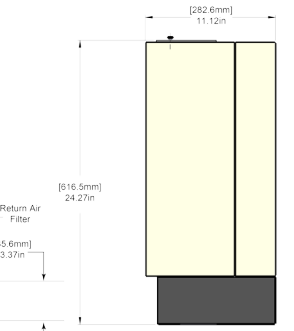
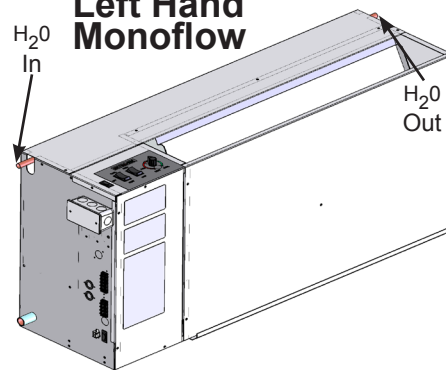
NOTICE: Due to ongoing product development; design, specification and performance data listed within this submittal document are subject to change without notice. For the most current performance data, please refer to ECR International listings of certified products in the AHRI directory, or consult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

Water Coil Piping Options & Optional Cabinet Dimensions

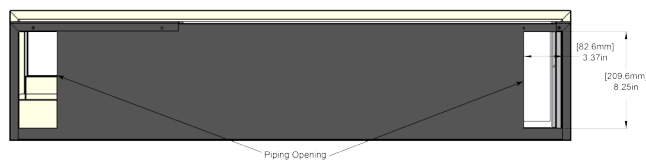
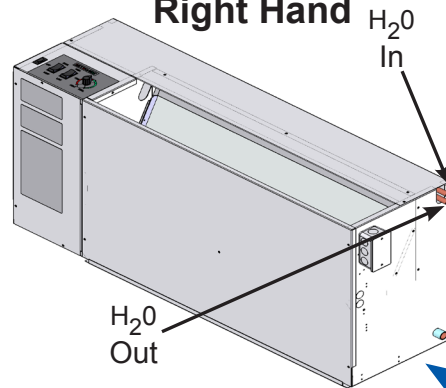
Left Hand



Left Hand Monoflow

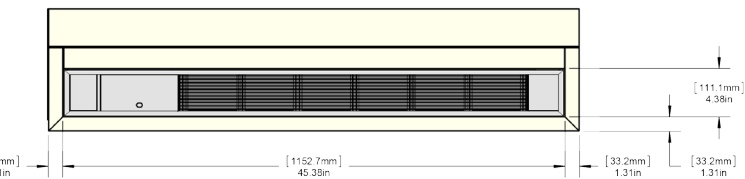
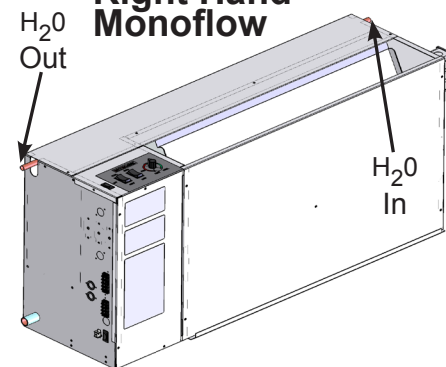


Right Hand

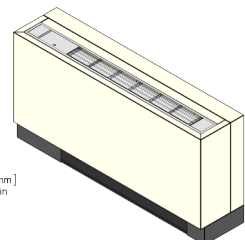
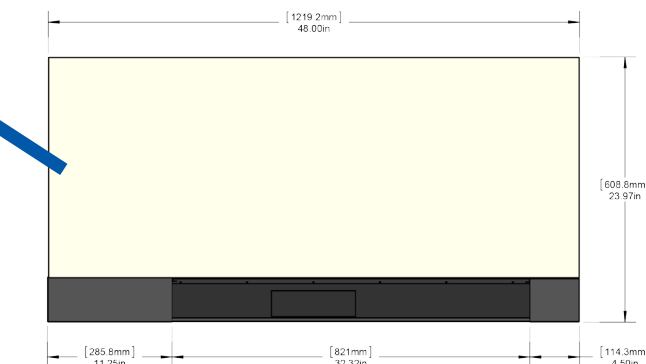


**Left Hand
Cabinet Kit
#550000199**

Right Hand Monoflow



**Right Hand
Cabinet Kit
#550000200**



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

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.