

# ComfortStar®

Air Conditioning & Heating Products

## R32 RESIDENTIAL PRODUCTS CATALOG

### BAR17 SERIES

1.5 UP TO  
3 TONS

**14.3 SEER2**



**10 YEARS**  
WARRANTY  
COMPRESSOR

**10 YEARS**  
WARRANTY  
PARTS

*Comfort, it's in our name.*

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# BAR17 SERIES

1.5 UP TO 3 TONS

## TOP DISCHARGE CONDENSING UNIT



### FEATURES:

- 1.5 Ton to 3 Ton, Cooling-Only Top Discharge.
- Energy-efficient Rotary Compressor.
- High Efficiency DC Motor.
- High-Quality Condenser With Inner-Grooved Copper Tubing and Aluminum Fins.
- Factory-Installed High/Low Voltage Switch.
- Wide Operating Temperature Range.
- Built-In Filter Drier.
- AHRI & ETL Certified.



# BAR17 SERIES

## TOP DISCHARGE CONDENSING UNIT

### 1.5 UP TO 3 TONS



**14.3 SEER2**



**SPECIFICATION:**

| Model                |                                   | BAR17-18-15              | BAR17-24-15              | BAR17-30-15              | BAR17-36-15              |
|----------------------|-----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Outdoor Power Supply | V/Ph/Hz                           | 230-1-60                 | 230-1-60                 | 230-1-60                 | 230-1-60                 |
| Electrical Data      | Min./Max.Voltage                  | 187/253                  | 187/253                  | 187/253                  | 187/253                  |
|                      | MCA                               | 12                       | 16                       | 18                       | 22                       |
|                      | MOP                               | 15                       | 25                       | 25                       | 35                       |
| Cooling              | EER2 (Btu/h.W)                    | 11.7                     | 11.7                     | 11.7                     | 11.7                     |
|                      | SEER2 (Btu/h.W)                   | 14.3                     | 14.3                     | 14.3                     | 14.3                     |
| Compressor           | Type                              | Rotary                   | Rotary                   | Rotary                   | Rotary                   |
|                      | Capacity (Btu/h)                  | 19073                    | 25863                    | 29718                    | 36440                    |
|                      | Input (W)                         | 1290.00                  | 1740.00                  | 2005.00                  | 2450.00                  |
|                      | Rated Current (RLA)(A)            | 7.80                     | 11.00                    | 12.10                    | 15.20                    |
|                      | Locked Rotor Amp (LRA)(A)         | 39.00                    | 55.00                    | 58.00                    | 72.00                    |
| Outdoor Fan Motor    | Fin Material                      | Hydrophilic Aluminum Fin | Hydrophilic Aluminum Fin | Hydrophilic Aluminum Fin | Hydrophilic Aluminum Fin |
|                      | Tube Material                     | Inner Grooved            | Inner Grooved            | Inner Grooved            | Inner Grooved            |
| Outdoor Coil         | Type                              | DC                       | DC                       | DC                       | DC                       |
|                      | Full Load Amps (FLA)(A)           | 1.5                      | 1.5                      | 2.4                      | 2.4                      |
| Outdoor Unit         | Unit (WxHxD) (inch)               | 21-4/5×25×21-4/5         | 21-4/5×25×21-4/5         | 29-1/7×25×29-1/7         | 29-1/7×25×29-1/7         |
|                      | Packing (WxHxD) (inch)            | 22-3/5×26×22-3/5         | 22-3/5×26×22-3/5         | 30×26×x30                | 30×26×x30                |
|                      | Net / Gross Weight (lbs.)         | 111/116                  | 111/116                  | 139/147                  | 146/154                  |
| Refrigerant System   | Liquid Side (inch)                | 3/8                      | 3/8                      | 3/8                      | 3/8                      |
|                      | Gas Side (inch)                   | 3/4                      | 3/4                      | 3/4                      | 3/4                      |
|                      | Max. Refrigerant Pipe Length (ft) | 131                      | 131                      | 131                      | 131                      |
|                      | Max. Difference in Level (ft)     | 66                       | 66                       | 66                       | 66                       |
|                      | Refrigerant Type                  | R32                      | R32                      | R32                      | R32                      |
| Operation Temp Range | Cooling (°F)                      | 57-118                   | 57-118                   | 57-118                   | 57-118                   |



# LUC17 SERIES

## 1.5 UP TO 3 TONS



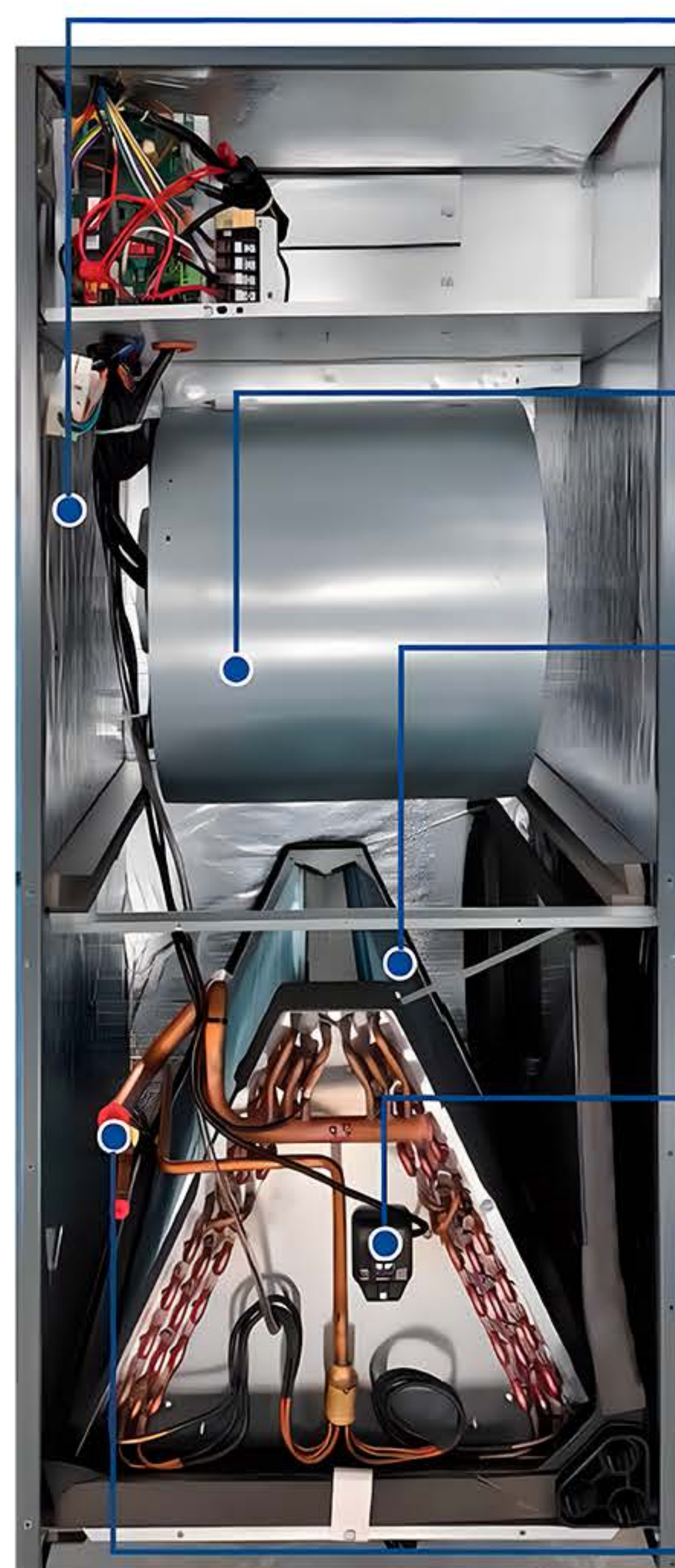
## MULTI-POSITION AIR HANDLER

### FEATURES:

- Leakage Sensor
- High-Quality Evaporator With Inner-Grooved Copper Tubing and Aluminum Fins.
- ECM Motor.
- Factory-Installed Piston as Throttle Component.
- Multi-Position Installation With 4-Way Convertible Design.
- Blower Wheel and Coil Slide Out Easily for Maintenance.
- Field-Installed Heater Kits Optional: 5/ 7.5 / 10 / 15 kw.
- AHRI & ETL Certified.



**14.3 SEER2**



### INSULATED CABINET:

Galvanized steel with paint on all panels. Thermal insulators cover all internal panels to reduce heat and cold loss and prevent condensation from accumulating



### ECM MOTOR & BLOWER:

5-stage blower with speed control to meet varying capacity needs.



### COPPER TUBE AND ALUMINUM FIN COIL

"A" shape coils, constructed with inner groove copper tube and hydrophilic aluminum foil.



### BUILT IN REFRIGERANT LEAKAGE SENSOR AND BUZZER



Sensor

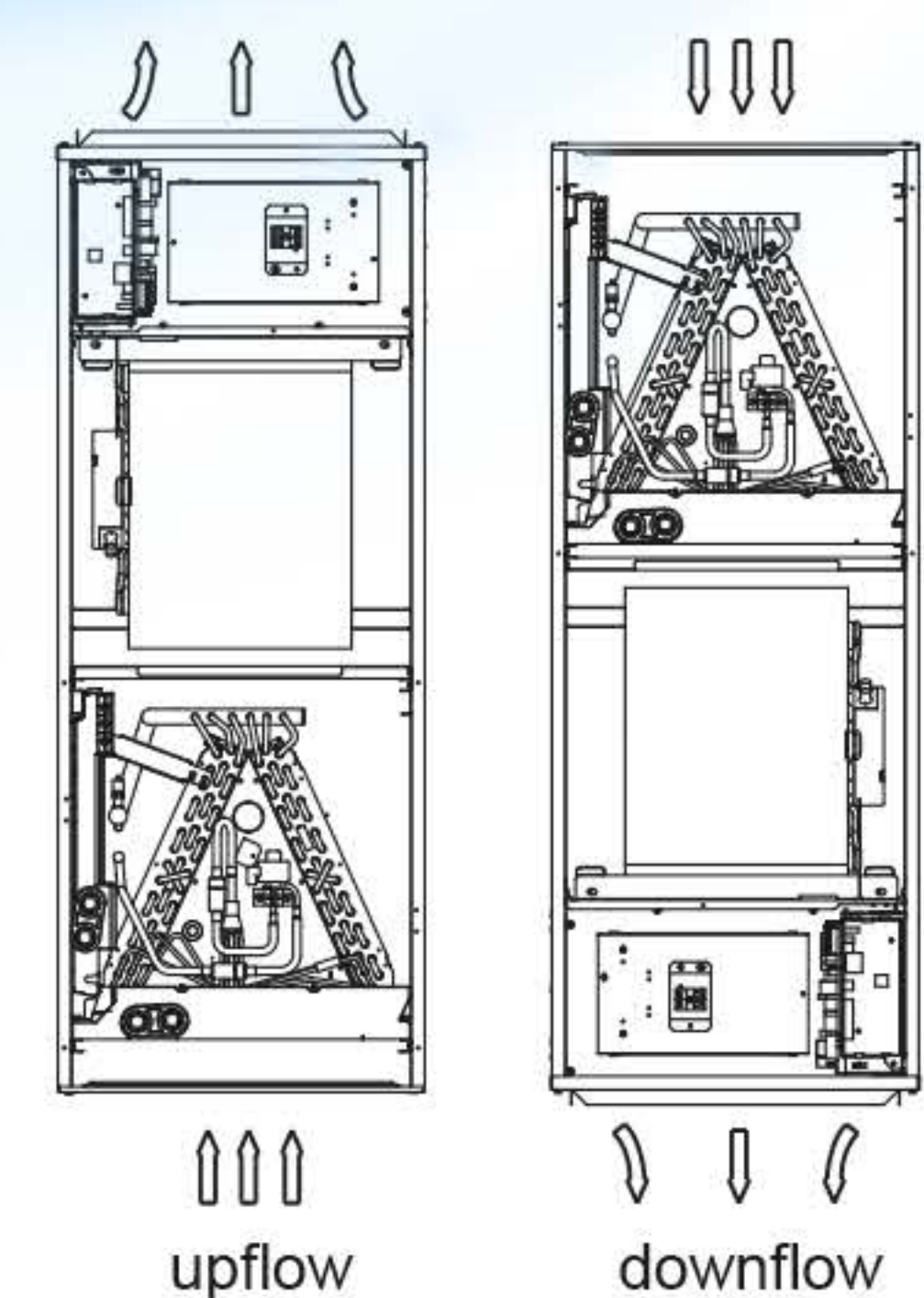


220V buzzer (field supplied)

Note: The device has reserved power supply and control terminal for the buzzer.

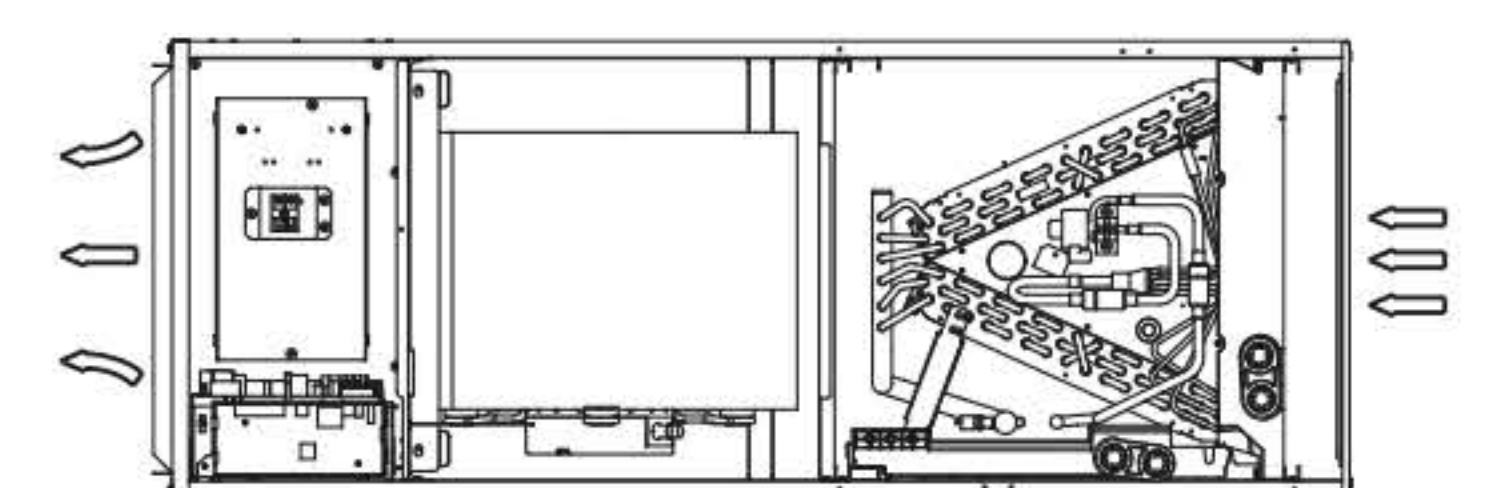
### EXPANSION DEVICE

Use replaceable piston as expansion valve.

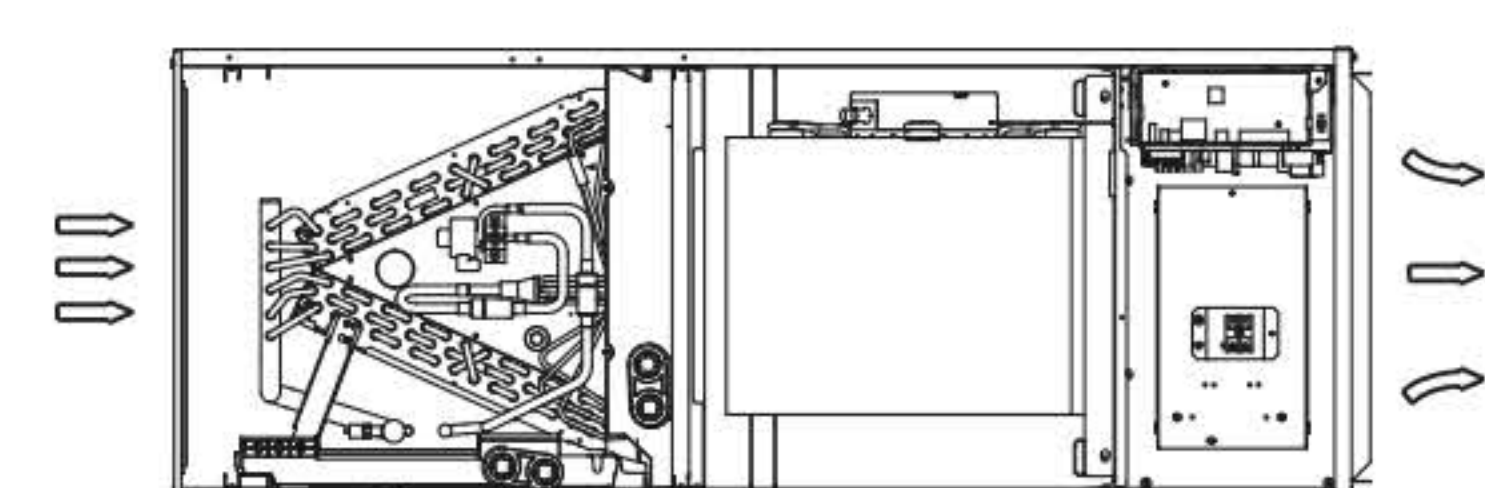


upflow

downflow



horizontal left



horizontal right



# LUC17 SERIES

## AIR HANDLER

### MULTI-POSITION

### 1.5 UP TO 3 TONS



**14.3 SEER2**



**SPECIFICATION:**

| Model              |                    |         | LUC17-18-15          | LUC17-24-15          | LUC17-30-15          | LUC17-36-15          |
|--------------------|--------------------|---------|----------------------|----------------------|----------------------|----------------------|
| Power Supply       | Rated Voltage      | V/Ph/Hz | 230-1-60             | 230-1-60             | 230-1-60             | 230-1-60             |
|                    | Min./Max.Voltage   | v       | 187/253              | 187/253              | 187/253              | 187/253              |
| Cooling            | Capacity           | Btu/h   | 17600                | 22800                | 28000                | 33000                |
| MCA                |                    | A       | 4                    | 4                    | 5                    | 5                    |
| MOP                |                    | A       | 6                    | 6                    | 6                    | 6                    |
| Indoor Motor       | Type               |         | ECM                  | ECM                  | ECM                  | ECM                  |
|                    | Rate Current       | A       | 2.6                  | 2.6                  | 3.8                  | 3.8                  |
| Indoor Fan         | Diameter           | in      | 12 19/67             | 12 19/67             | 12 19/67             | 12 19/67             |
|                    | Width              | in      | 13 3/95              | 13 3/95              | 13 3/95              | 13 3/95              |
|                    | Airflow (Rated)    | CFM     | 770                  | 785                  | 975                  | 1030                 |
| Indoor Air Flow    |                    | CFM     | 690                  | 800                  | 1020                 | 1020                 |
| Indoor Noise Level |                    | dB(A)   | 50                   | 54                   | 56                   | 56                   |
| Indoor Unit        | Unit (WxHxD)       | in      | 19-5/8×45-3/4×22     | 19-5/8×45-3/4×22     | 19-5/8×45-3/4×22     | 19-5/8×45-3/4×22     |
|                    | Packing (WxHxD)    | in      | 22-5/6×47-5/8×25-3/5 | 22-5/6×47-5/8×25-3/5 | 22-5/6×47-5/8×25-3/5 | 22-5/6×47-5/8×25-3/5 |
|                    | Net / Gross Weight | lbs.    | 119/133              | 128/140              | 129/141              | 129/141              |
| Throttle Type      |                    |         | Piston               | Piston               | Piston               | Piston               |



# CWM17 SERIES

## 1.5 UP TO 3 TONS



## WALL MOUNTED AIR HANDLER

### FEATURES:

- Front or bottom air return: Remove the cross brace when converting the cabinet to a bottom return
- Wall or stud mounting installation
- Factory Standard Front Return: Convertible to Bottom Return by removing the base pan panel to the front side
- Suitable for CO and HP condenser unit.
- Operates quietly.
- Auxiliary heaters are available in 5kw, 7.5kw, and 10kw options.
- Equipped with an ECM constant torque motor.
- Features copper tube and aluminum fin coils.
- Comes with a factory-installed piston metering device.
- Metal cabinet with foil face insulation.
- Standard thermostat functionality.
- Compact design.
- Includes a refrigerant leak sensor.



### ELECTRIC HEATER:

Auxiliary heaters available in 5kw, 7.5kw and 10kw.

### COPPER TUBE, ALUMINUM FIN COIL:

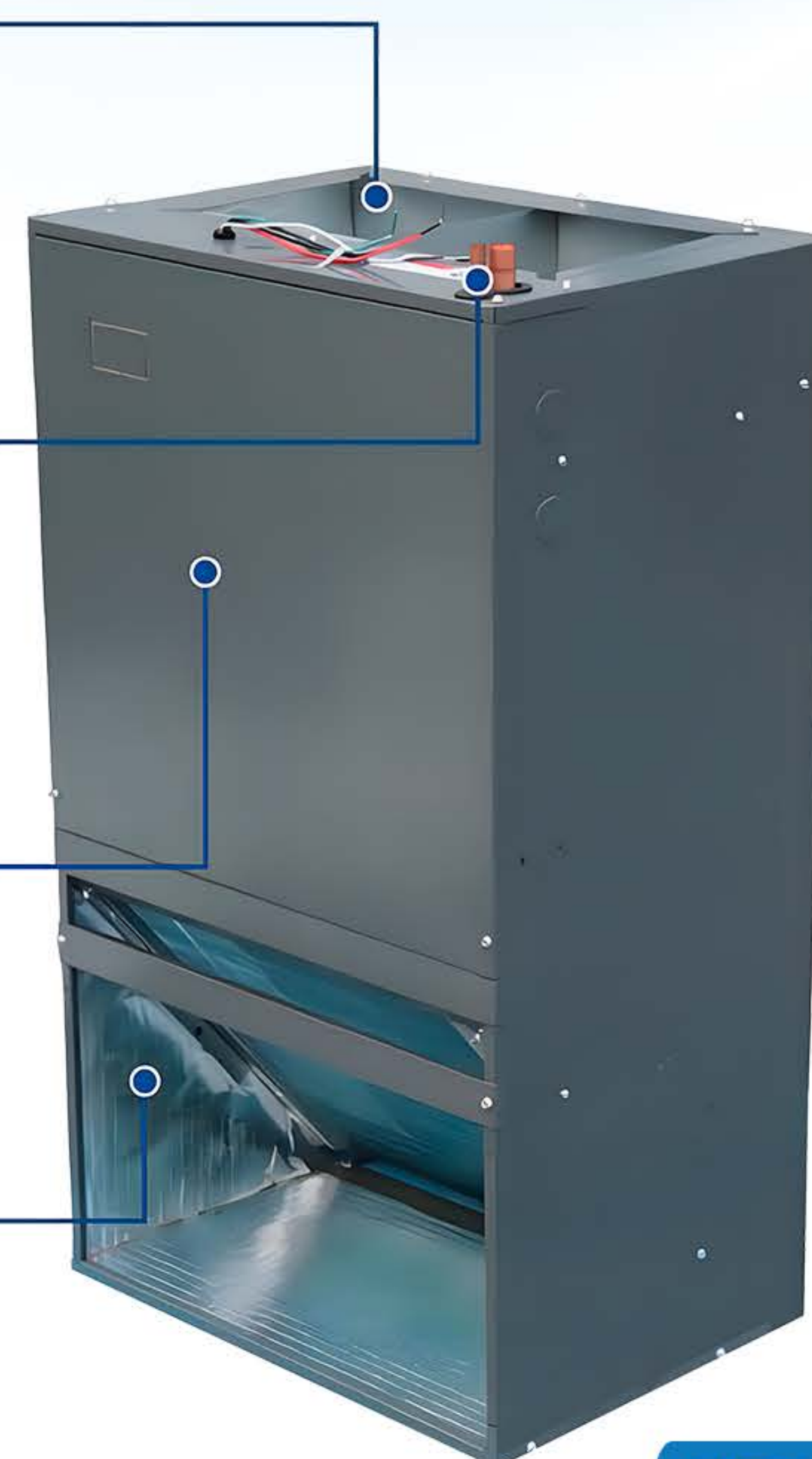
New coils structure design, constructed with inner groove copper tube and hydrophilic aluminum foil for high heat exchange efficiency.

### ECM CONSTANT TORQUE MOTOR:

5-stage blower with speed control to meet varying capacity needs.

### INSULATED CABINET:

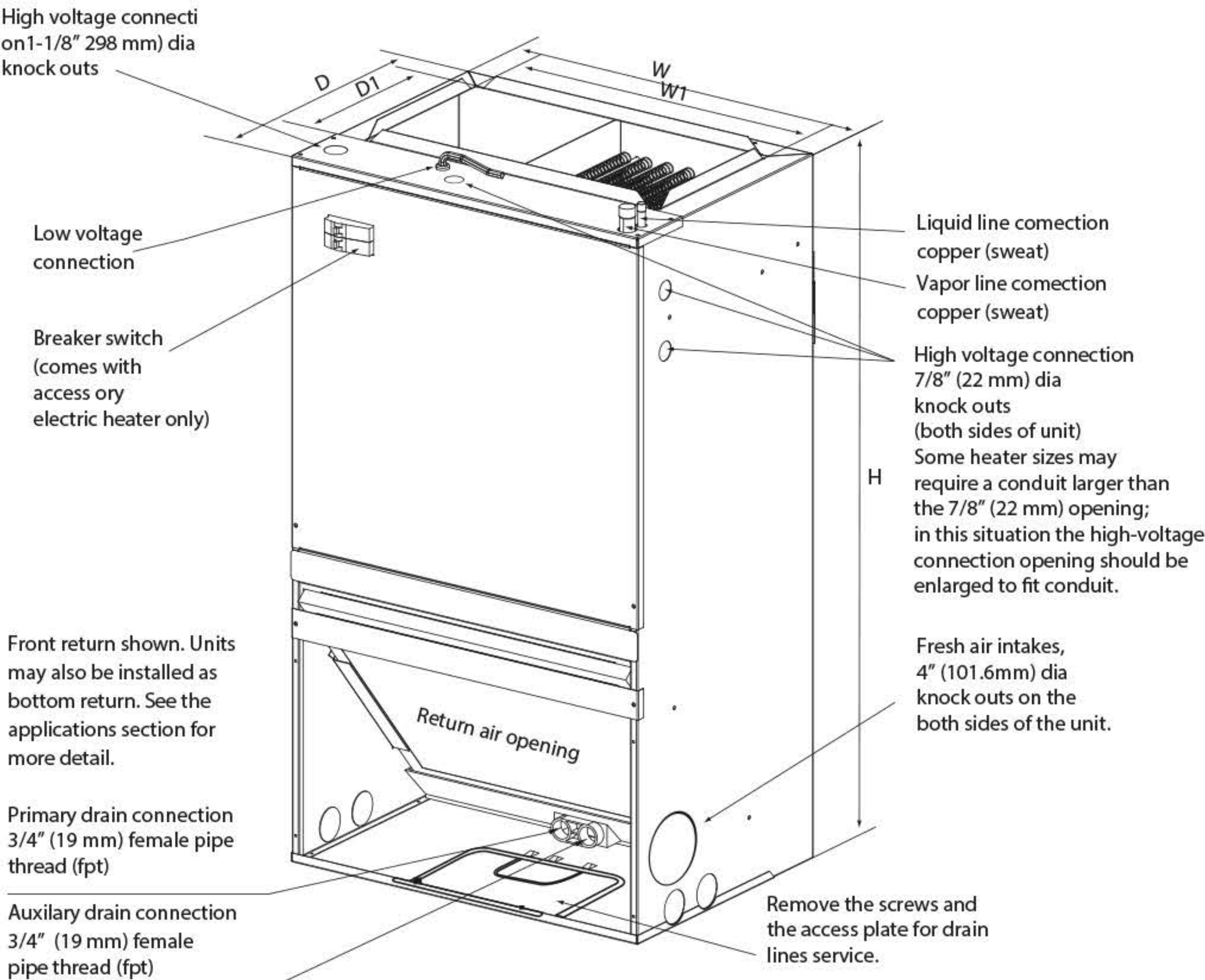
Galvanized steel with paint on all panels.  
Thermal insulators cover all internal panels to reduce heat and cold loss and prevent condensation from accumulating.



# CWM17 SERIES

## WALL MOUNTED AIR HANDLER

### 1.5 UP TO 3 TONS



r32+

ECO FRIENDLY REFRIGERANT

14.3 SEER2



SPECIFICATION:

| Model                |                       |         | CWM17-18-15             | CWM17-24-15              | CWM17-30-15              | CWM17-36-15              |
|----------------------|-----------------------|---------|-------------------------|--------------------------|--------------------------|--------------------------|
| Power Supply         | Rated Voltage         | V/Ph/Hz | 230-1-60                | 230-1-60                 | 230-1-60                 | 230-1-60                 |
|                      | Min./Max.Voltage      | v       | 187/253                 | 187/253                  | 187/253                  | 187/253                  |
| Cooling              | Capacity              | Btu/h   | 17000                   | 22000                    | 28000                    | 33000                    |
| Indoor Motor         | Type                  |         | ECM                     | ECM                      | ECM                      | ECM                      |
| Indoor Coil          | Type                  |         | Tube & Fin              | Tube & Fin               | Tube & Fin               | Tube & Fin               |
| Indoor Unit          | Unit Dimension(W*D*H) | in      | 20-1/2"x15"x36-1/2"     | 22"x19"x39-1/2"          | 22"x19"x39-1/2"          | 22"x19"x39-1/2"          |
|                      | Packing (WxDxH)       | in      | 23-3/7"x17-1/2"x39-1/2" | 24-1/2"x21-4/5"x42-1/10" | 24-1/2"x21-4/5"x42-1/10" | 24-1/2"x21-4/5"x42-1/10" |
|                      | Net / Gross Weight    | lbs.    | 44.5                    | 44.5                     | 55                       | 55                       |
| Indoor Air Flow      |                       | CFM     | 630                     | 865                      | 1065                     | 1065                     |
| Indoor Noise Level   |                       | dB(A)   | 51                      | 51                       | 53                       | 54                       |
| Operation Temp Range | Cooling (°F)          |         | 57-118                  | 57-118                   | 57-118                   | 57-118                   |



# COMBINATION TABLE



14.3 SEER2

## LUC SERIES

| Indoor Unit | Outdoor Unit | Capacity (Btu/h) | SEER2 (Btu/h/W) | EER2 (Btu/h/W) |
|-------------|--------------|------------------|-----------------|----------------|
| LUC17-18-15 | BAR17-18-15  | 17600            | 14.3            | 11.7           |
| LUC17-24-15 | BAR17-24-15  | 22800            | 14.3            | 11.7           |
| LUC17-30-15 | BAR17-30-15  | 28000            | 14.3            | 11.7           |
| LUC17-36-15 | BAR17-36-15  | 33000            | 14.3            | 11.7           |



14.3 SEER2

## CWM SERIES

| Indoor Unit | Outdoor Unit | Capacity (Btu/h) | SEER2 (Btu/h/W) | EER2 (Btu/h/W) |
|-------------|--------------|------------------|-----------------|----------------|
| CWM17-18-15 | BAR17-18-15  | 17000            | 14.3            | 11.7           |
| CWM17-24-15 | BAR17-24-15  | 22000            | 14.3            | 11.7           |
| CWM17-30-15 | BAR17-30-15  | 28000            | 14.3            | 11.7           |
| CWM17-36-15 | BAR17-36-15  | 33000            | 14.3            | 11.7           |



# ComfortStar®

Air Conditioning & Heating Products

## BAR17 SERIES

1.5 UP TO 3 TONS

**14.3 SEER2**



**10 YEARS**  
WARRANTY  
COMPRESSOR

**10 YEARS**  
WARRANTY  
PARTS



*Comfort, it's in our name.*

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