



The new degree of comfort.™

# SUBMITTAL COVER SHEET

PROJECT NAME \_\_\_\_\_

LOCATION \_\_\_\_\_

ARCHITECT \_\_\_\_\_

ENGINEER \_\_\_\_\_

CONTRACTOR \_\_\_\_\_

SUBMITTED BY \_\_\_\_\_ DATE \_\_\_\_\_

## UNIT SUMMARY

|                     |  |  |  |  |  |  |
|---------------------|--|--|--|--|--|--|
| Quantity            |  |  |  |  |  |  |
| Unit Designation    |  |  |  |  |  |  |
| Model No.           |  |  |  |  |  |  |
| Total Cooling       |  |  |  |  |  |  |
| Sensible Cooling    |  |  |  |  |  |  |
| Air Ent. Evaporator |  |  |  |  |  |  |
| Air Lvg. Evaporator |  |  |  |  |  |  |
| Heating Input       |  |  |  |  |  |  |
| Heating Output      |  |  |  |  |  |  |
| CFM/ESP             |  |  |  |  |  |  |
| EER/SEER            |  |  |  |  |  |  |
| Electrical          |  |  |  |  |  |  |
| Minimum Ampacity    |  |  |  |  |  |  |
| Min.-Max. Breaker   |  |  |  |  |  |  |
| Net Unit Weight     |  |  |  |  |  |  |
| Accessory           |  |  |  |  |  |  |
| Catalog Form Number |  |  |  |  |  |  |

**ACCESSORIES:**

**NOTES:**

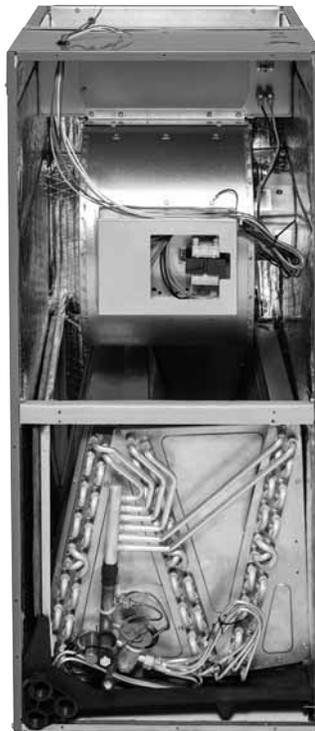




## Engineering Features

- The most compact unit design available, all standard heat air handler models only 42<sup>1</sup>/<sub>2</sub> to 55<sup>1</sup>/<sub>2</sub> inches [1079 to 1409 mm] high.
- Attractive pre-painted cabinet exterior.
- Rugged wall steel cabinet construction, designed for added strength and versatility.
- 1.0" foil faced insulation mechanically retained in blower compartment for excellent thermal and sound performance.
- Four leg blower motor mount.
- Blower housing with controls, motor and blower. Slide out design for service and maintenance convenience.
- Traditional open wire element design for heat applications.
- Field convertible for vertical downflow, horizontal left hand or right hand air supply.
- 3 combustible floor base accessories fit all model sizes when required for downflow installations on combustible floors.
- Indoor coil design provides low air side pressure drop, high performance and extremely compact size.
- Expansion valve on indoor coil provides for operation with air conditioning.
- Coils are constructed of aluminum fins bonded to internally grooved aluminum tubing.
- Coils are tested at the factory with an extensive refrigerant leak check.
- Coils have copper sweat refrigerant connections.
- Coils utilize chatleff metering device connections.
- Molded polymer corrosion resistant condensate drain pan is provided on all indoor coils.
- Supply duct flanges provided as standard on air handler cabinet.
- Provisions for field electrical, connections available from either side or top of the air handler cabinet.
- Connection point for high voltage wiring is inside the air handler cabinet. Low voltage connection is made on the outside of the air handler cabinet.
- Concentric knockouts are provided for power connection to cabinet. Installer may pull desired hole size up to 2 inches [51 mm] for 1<sup>1</sup>/<sub>2</sub> inch [38 mm] conduit.
- Front refrigerant and drain connections.

[ ] Designates Metric Conversions



# Unit Dimensions

ELECTRICAL CONNECTIONS  
MAY EXIT TOP OR EITHER SIDE  
HIGH VOLTAGE CONNECTION 7/8" [22.2 mm],  
1 3/32" [27.8 mm], 1 1/2" [50 mm] DIA. KNOCKOUTS.

LOW VOLTAGE CONNECTION  
3/8" [15.9 mm] AND 7/8" [22.2 mm] KNOCKOUT

AUXILIARY DRAIN CONNECTION  
3/4" [19.1 mm] FEMALE PIPE THREAD (NPT)  
HORIZONTAL APPLICATION ONLY

PRIMARY DRAIN CONNECTION  
3/4" [19.1 mm] FEMALE PIPE THREAD (NPT)

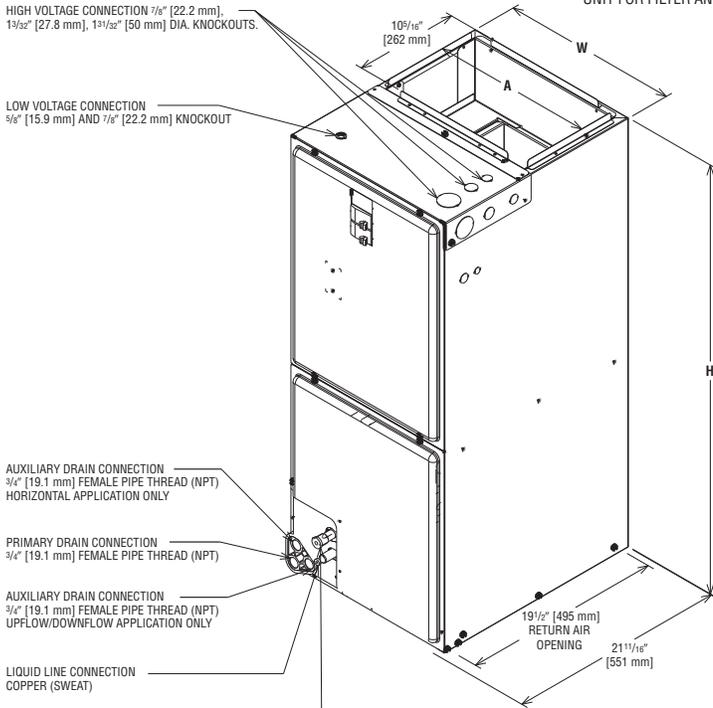
AUXILIARY DRAIN CONNECTION  
3/4" [19.1 mm] FEMALE PIPE THREAD (NPT)  
UPFLOW/DOWNFLOW APPLICATION ONLY

LIQUID LINE CONNECTION  
COPPER (SWEAT)

VAPOR LINE CONNECTION  
COPPER (SWEAT)

SUPPLY AIR ↑

NOTE: 24" CLEARANCE REQUIRED IN FRONT OF  
UNIT FOR FILTER AND COIL MAINTENANCE.



UPFLOW UNIT SHOWN:  
UNIT MAY BE INSTALLED UPFLOW, DOWNFLOW,  
HORIZONTAL RIGHT OR LEFT AIR SUPPLY.

HORIZONTAL ADAPTER KIT

VAPOR LINE CONNECTION

AUXILIARY HORIZONTAL  
DRAIN CONNECTION

PRIMARY DRAIN  
CONNECTION

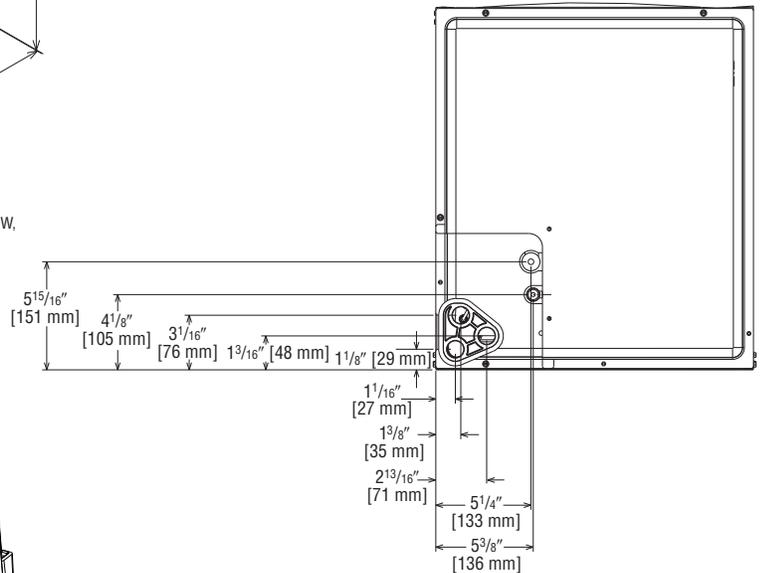
LIQUID LINE  
CONNECTION

VERTICAL DRAIN PAN

AUXILIARY UPFLOW/DOWNFLOW  
DRAIN CONNECTION

## Return Air Opening Dimensions

| Model Cabinet Size | Return Air Opening Width (Inches) | Return Air Opening Depth/Length (Inches) |
|--------------------|-----------------------------------|--|
| 17                 | 15 7/8                            | 19 3/4                                   |
| 21                 | 19 3/8                            | 19 3/4                                   |
| 24                 | 22 7/8                            | 19 3/4                                   |



UPFLOW UNIT SHOWN:  
UNIT MAY BE INSTALLED UPFLOW,  
DOWNFLOW, HORIZONTAL RIGHT  
OR LEFT AIR SUPPLY.

[ ] Designates Metric Conversions

( ) Designates Unit with Double Coil Cabinet

## Unit Dimensions & Weights

| Model Size RH1P | Refrigerant Connections Sweat (In.) [mm] ID |             | Unit Width "W" In. [mm] | Unit Height "H" In. [mm] | Supply Duct "A" In. [mm] | Air Flow CFM (Nom.) [L/s] |            | Unit Weight/Shipping Weight (Lbs.) [kg]<br>Unit With Coil (Max. KW) |
|-----------------|---|-------------|-------------------------|--------------------------|--------------------------|---------------------------|------------|---|
|                 | Liquid                                      | Vapor       |                         |                          |                          | Lo                        | Hi         |   |
| 1817ST/2417ST   | 3/8 [9.53]                                  | 3/4 [19.05] | 17 1/2 [445]            | 42 1/2 [1080]            | 16 [406]                 | 600 [283]                 | 800 [378]  | 81/95 [37/43]   |
| 3017ST/3617ST   | 3/8 [9.53]                                  | 3/4 [19.05] | 17 1/2 [445]            | 42 1/2 [1080]            | 16 [406]                 | 1000 [472]                | 1200 [566] | 90/104 [41/47]  |
| 3621ST          | 3/8 [9.53]                                  | 7/8 [22.23] | 21 [533]                | 42 1/2 [1080]            | 19 1/2 [495]             | 1200 [566]                | —          | 109/124 [49/56]   |
| 4221ST/4821ST   | 3/8 [9.53]                                  | 7/8 [22.23] | 21 [533]                | 50 1/2 [1282]            | 19 1/2 [495]             | 1400 [661]                | 1600 [755] | 130/146 [59/66]   |
| 4824ST          | 3/8 [9.53]                                  | 7/8 [22.23] | 24 1/2 [622]            | 50 1/2 [1282]            | 23 [584]                 | 1600 [755]                | —          | 143/161 [65/73]   |
| 6024ST          | 3/8 [9.53]                                  | 7/8 [22.23] | 24 1/2 [622]            | 55 1/2 [1410]            | 23 [584]                 | —                         | 1800 [850] | 164/181 [75/82]   |

\*Maximum dehumidification airflow.