

| 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 | | |
| MinMax. Breaker | | |
| Net Unit Weight | | |
| Accessory | | |
| Catalog Form Number | | |
| ACCESSORIES: | NOTES: | |
| | | |
| | | |
| | | |
| | | |
| | | |

Vantix[®] Line SH1PY Air Handlers PSC Motor Single-Stage Airflow

Efficiencies: 13.4 to 15.2 SEER2 Refrigerant Type: R-454B

| JOB NAME | | | LOCATION |
|---------------|------------|------------------|----------------------|
| CONTRACTOR | | | ORDER NO |
| ENGINEER | | | UNIT MODEL NO |
| SUBMITTED FOR | ☐ APPROVAL | \square RECORD | COIL MODEL NO |
| DATE | | | AIR HANDLER MODEL NO |

UNIT DATA

COOLING PERFORMANCE

| TOTAL CAPACITY* MBH [kW] |
|--|
| SENSIBLE CAPACITY* MBH [kW] |
| OUTDOOR DESIGN TEMP °F [°C] DB |
| TOTAL SUPPLY AIR CFM [L/s] |
| TEMP. OF AIR ENTERING EVAPORATOR COIL |
| POWER INPUT REQUIREMENT kW (*uses blower motor heat) |

HEATING PERFORMANCE

| TOTAL CAPACITY* MBH [kW] |
|--|
| OUTDOOR DESIGN TEMP °F [°C] DB |
| TEMP. OF AIR ENTERING EVAPORATOR COIL |
| ELECTRIC HEAT CAPACITY kW |
| POWER INPUT REQUIREMENT kW (*uses blower motor heat) |

SUPPLY AIR BLOWER PERFORMANCE

| TOTAL AID CUIDDLY |
|--------------------------------------|
| TOTAL AIR SUPPLY CFM [L/s] |
| TOTAL RESISTANCE EXTERNAL TO UNITIWG |
| BLOWER SPEEDRPM |
| POWER OUTPUT REQUIREMENT BHP |
| MOTOR RATING HP [W] |
| POWER INPUT REQUIREMENT kW |

ELECTRICAL DATA

| POWER SUPPLY | Hz |
|---|-------|
| TOTAL UNIT AMPACITY | AMPS |
| MINIMUM WIRE SIZE | _ AWG |
| MAXIMUM OVERCURRENT DEVICE FUSES/HACR BREAKER | AMPS |

CLEARANCES

SERVICE ACCESS FRONT 24" [609.6 mm]

FEATURES

- Quiet Operation¹: Provided by a cabinet construction with 1.0 inch of foil faced insulation for quieter sound characteristics
- Aluminum Indoor Coil Design: Are constructed of aluminum fins bonded to internally grooved aluminum tubing and are more corrosion resistant
- Versatile 4-Way Convertible Compact Design: Allows for upflow, downflow, horizontal left and horizontal right applications, even in the smallest of spaces
- Rugged Steel, Compact Cabinet Construction: Designed for added strength and versatility
- Field-installed Auxiliary Heater Kits: Provide exact heat for indoor comfort and include circuit breakers which meet UL and cUL requirements for service disconnect
- Cabinet Air Leakage Less Than 2% at 1-inch H₂O: When tested in accordance with ASHRAE Standard 193
- Mobile/Manufactured Home Capability: Designed to be suitable for installation in mobile/manufactured homes
- Designing for Sustainability with Low GWP: For 2025, the
 Environmental Protection Agency (EPA) has set a global warming
 potential (GWP) limit of 700 for refrigerant used in heating and cooling
 systems. This new requirement will result in a 78%² lower GWP than
 previous-generation refrigerants with only minimal changes to
 system installation. For us, this is another step toward our continued
 sustainability goal of reducing greenhouse gas emissions, while still
 delivering an exceptional level of energy efficient, dependable comfort
- Refrigerant Detection System™3: An integrated one-box, patented design featuring the A2L sensor and mitigation board, offering easier commissioning with a single component and simplified wiring configuration, compatibility with any 24V thermostat application and system protection by automatically pausing outdoor unit operation — if excess refrigerant is detected

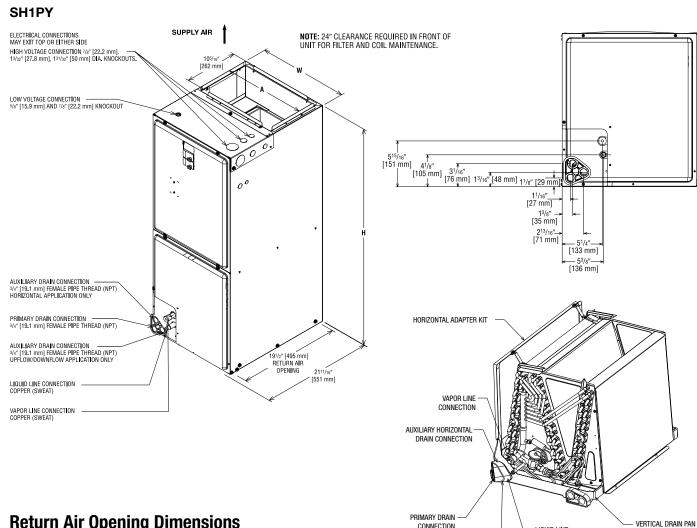








¹Based on manufacturer's air handler offering, and the product's airflow stages, motor type and cabinet insulation. Sound levels are also dependent on air handler location and installation ²When comparing the GWP of R-454B to R-410A refrigerant ³Factory or field installed in the furnace coil or air handler and is applicable to the complete heating and cooling system featuring Low GWP Refrigerant (A2L)



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 | 193/8 | 19 ³ / ₄ | | |
| 24 | 227/8 | 193/4 | | |

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

LIQUID LINE CONNECTION

] Designates Metric Conversions

CONNECTION

AUXILIARY UPFLOW/DOWNFLOW

) Designates Unit with Double Coil Cabinet

Unit Dimensions

| Model Size | | Connections n.) [mm] ID | Unit Unit Width Height "W" In. [mm] | Supply Duct | Air Flow CFM (Nom.) [L/s] | | Unit Weight/Shipping Weight (Lbs.) [kg] | |
|---------------|------------|----------------------------|-------------------------------------|----------------|--------------------------------------|------------|---|-----------------------------|
| SH1PY | Liquid | Vapor | | | "A" In. [mm] | Lo | Hi | Unit With Coil (Max. KW) |
| 1817S/2417S | 3/8 [9.53] | 3/4 [19.05] | 171/2 [445] | 421/2 [1080] | 16 [406] | 600 [283] | 800 [378] | 81/95 [37/43] |
| 3017S/3617S | 3/8 [9.53] | 3/4 [19.05] | 171/2 [445] | 421/2 [1080] | 16 [406] | 1000 [472] | 1200 [566] | 90/104 [41/47] |
| 3621S | 3/8 [9.53] | 7/8 [22.23] | 21 [533] | 421/2 [1080] | 19 ¹ / ₂ [495] | 1200 [566] | _ | 109/124 [49/56] |
| 4221S/4821S | 3/8 [9.53] | 7/8 [22.23] | 21 [533] | 501/2 [1282] | 19 ¹ / ₂ [495] | 1400 [661] | 1600 [755] | 130/146 [59/66] |
| 4824S | 3/8 [9.53] | 7/8 [22.23] | 241/2 [622] | 551/2 [1410] | 23 [584] | 1600 [755] | _ | 143/161 [65/73] |
| 6024S | 3/8 [9.53] | 7/8 [22.23] | 241/2 [622] | 551/2 [1410] | 23 [584] | _ | 1800 [850] | 164/181 [75/82] |

[] Designates Metric Conversions

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

In keeping with its policy of continuous progress and product improvement, manufacturer reserves the right to make changes without notice.

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