

PROJECT NAME		
LOCATION		
ARCHITECT		
ENGINEER		
CONTRACTOR		
SUBMITTED BY	DATE	
UN	IT 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:	
	1	

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	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 CLIDDLY	
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
- 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 System³: 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)

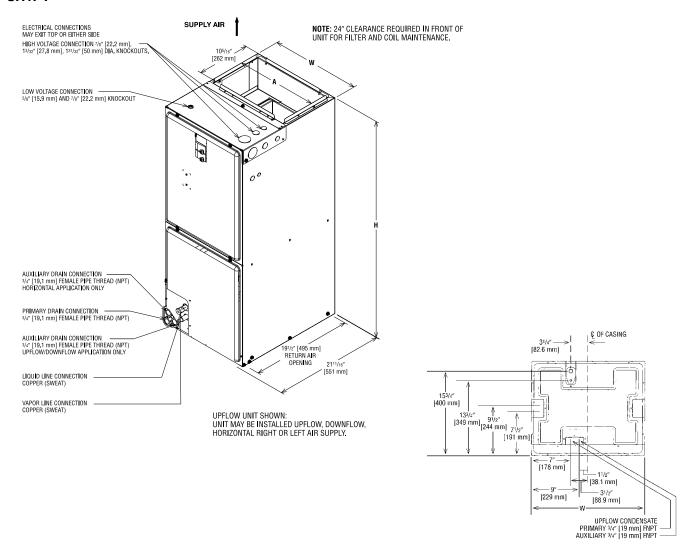








SH1PY



Unit Dimensions

Model Size	Refrigerant Connections Sweat (In.) [mm] ID		Unit - Width	Unit Height	Supply Duct	Air Flow CFM (Nom.) [L/s]		Unit Weight/Shipping Weight (Lbs.) [kg]	
SH1PY	Liquid	Vapor	"W" In. [mm]	"H" In. [mm]	"A" In. [mm]	Lo	Hi	Unit With Coil (Max. KW)	
1817S/2417S	3/8 [9.53]	3/4 [19.05]	17 ¹ / 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]	191/2 [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]	55 ¹ /2 [1410]	23 [584]	1600 [755]	_	143/161 [65/73]	
6024S	3/8 [9.53]	7/8 [22.23]	241/2 [622]	55 ¹ /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.

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