

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:	

Vantix[™] Line SH2VY Air Handlers

Nominal Sizes: 2 to 5 Ton [7.03 kW to 17.58 kW] Constant CFM Motor with Two-Stage Airflow

Expansion Device: Thermal Expansion Valve (TXV)

Efficiencies: 13.4 to 14.3 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

EFFICIENCY	SEER
TOTAL CAPACITY*	_ MBH [kW]
SENSIBLE CAPACITY*	_ MBH [kW]
OUTDOOR DESIGN TEMP	_ °F [°C] DB
TEMP. OF AIR ENTERING EVAPORATOR COIL	
	·°F [°C] WB
POWER INPUT REQUIREMENT(*uses blower motor heat)	kW

HEATING PERFORMANCE

EFFICIENCY HSPF
TOTAL CAPACITY* MBH [kW]
OUTDOOR DESIGN TEMP °F [°C] DB
TEMP. OF AIR ENTERING EVAPORATOR COIL °F [°C] DB

SUPPLY AIR BLOWER PERFORMANCE

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 AM	PS
MINIMUM WIRE SIZE AN	ΝG
MAXIMUM OVERCURRENT DEVICE FUSES/HACR BREAKER AM	IPS

CLEARANCES

ACCESS SIDE	24" [609.6 mm]
AIR INLETS	12" [304.8 mm]
ABOVE UNIT	60" [1524 mm]





FEATURES

• Constant CFM Motor:

- When paired with EcoNet® Smart Thermostat, gradually auto-adjusts from low capacity to 100% of capacity to meet comfort requirements—allowing for ultimate humidity control, quieter sounds levels and year-round energy savings
- When paired with 24V two-stage thermostat, air handler runs in 2 speeds to match airflow with outdoor unit
- Quieter Operation1: Provided by two-stage operation and truly variable speed airflow technology and sturdy cabinet construction with 1.0 inch of foil faced insulation for quieter sound characteristics
- Diagnostics: With the Contractor & EcoNet® Apps, built-in EcoNet® & Bluetooth® technology
 makes monitoring, troubleshooting and repairing the product easier than ever before
- Dip Switch Free Installation Commissioning via Bluetooth® Technology: Seamless final install step without DIP switch configuration using the Contractor App
- EcoNet® Enabled Air Handler:
 - The latest in sensor technology and the EcoNet® monitoring system provides a new level of protection, control and energy savings
 - Allows on-the-go control and receipt of system alerts by the homeowner via the EcoNet[®] Smart Thermostat and EcoNet[®] App²
- 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
- Less than 2% Cabinet Air Leakage 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%³ 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 System⁴: 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.

²Wifi broadband internet connection required. Download the EcoNet® App from the App Store® or Google Play® to set up your EcoNet® Smart Thermostat. Receipt of notifications depend on home WiFi set up. Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

3When comparing the GWP of R-454B to R-410A refrigerant

4Factory 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)

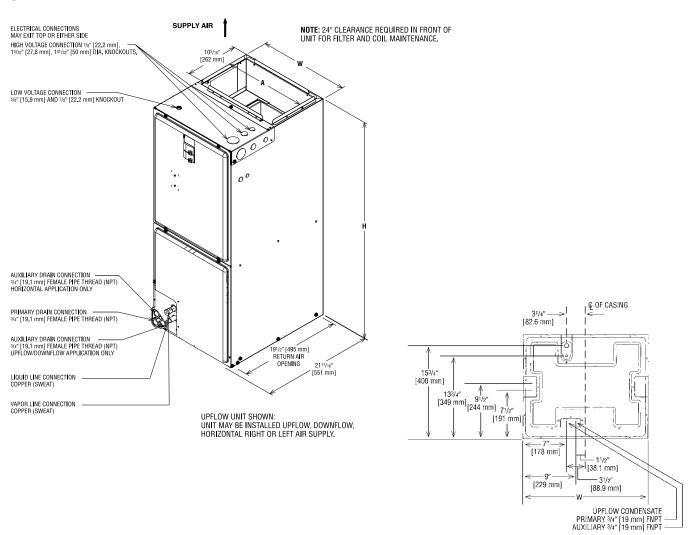
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SH2VY



Unit Dimensions

Model	Model Size	Refrigerant Connections Sweat (In.) [mm] ID		Unit Width	Unit Height	Supply Duct	Unit Weight/Shipping Weight
Model		Liquid	Vapor	"W" In. [mm]	"H" In. [mm]	"A" In. [mm]	(Lbs.) [kg]
	2417STACN	3/8 [9.53]	3/4 [19.05]	171/2 [445]	421/2 [1080]	16 [406]	91/105 [41/48]
	3617STACN	3/8 [9.53]	3/4 [19.05]	17 ¹ /2 [445]	42 ¹ / ₂ [1080]	16 [406]	98/112 [44/51]
	3621STACN	3/8 [9.53]	3/4 [19.05]	21 [533]	42 ¹ / ₂ [1080]	19 ¹ / ₂ [495]	103/118 [47/54]
	3621MTACN	3/8 [9.53]	⁷ /8 [22.23]	21 [533]	50 ¹ / ₂ [1282]	19 ¹ / ₂ [495]	126/142 [57/64]
0.1017	3621MTACA	3/8 [9.53]	⁷ /8 [22.23]	21 [533]	57 [1448]	19 ¹ / ₂ [495]	138/150 [63/68]
SH2VY	4821STACN	3/8 [9.53]	7/8 [22.23]	21 [533]	501/2 [1282]	191/2 [495]	128/144 [56/65]
	4821STACA	3/8 [9.53]	7/8 [22.23]	21 [533]	57 [1448]	191/2 [495]	140/152 [64/69]
	4824STACN	3/8 [9.53]	7/8 [22.23]	241/2 [622]	551/2 [1410]	23 [584]	142/160 [64/73]
	6021STACA	3/8 [9.53]	7/8 [22.23]	21 [533]	57 [1448]	19 ¹ / ₂ [495]	140/152 [64/69]
	6024STACN	3/8 [9.53]	7/8 [22.23]	241/2 [622]	55 ¹ / ₂ [1410]	23 [584]	159/176 [72/80]

[] 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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