RACH SERIES (15-25 TON MODELS) STANDARD FEATURES INCLUDE:

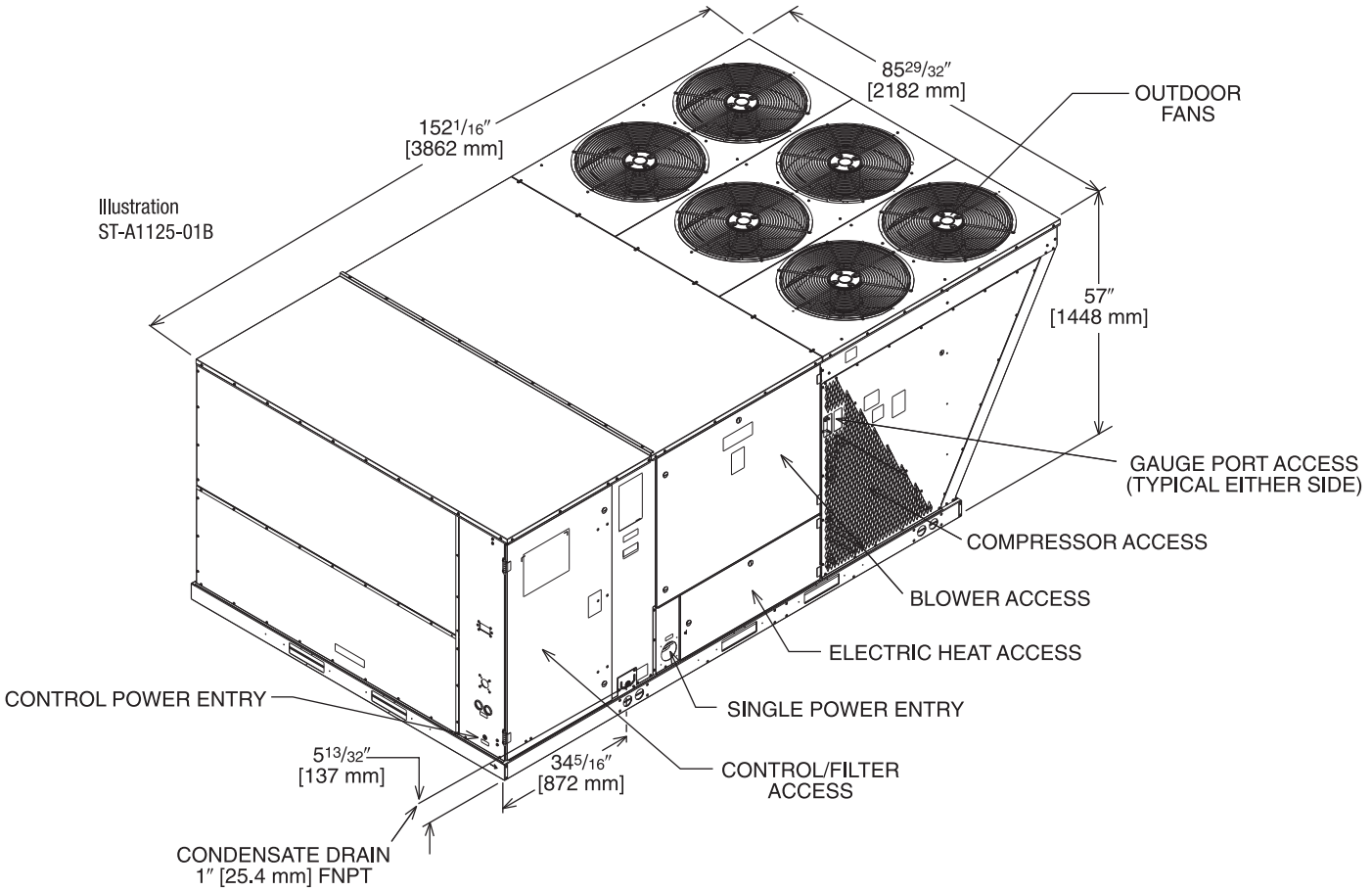
- Factory charged with R-454B refrigerant
- Wired and run tested
- Scroll compressors with internal line break overload and high-pressure protection
- Dual stage compressor on all models
- Field Convertible Airflow – vertical downflow or horizontal sideflow
- TXV refrigerant metering system on each circuit
- High Pressure and Low Pressure/Loss of charge protection standard on all models
- Solid Core liquid line filter drier on each circuit
- Single slab, single pass designed evaporator and condenser coils facilitate easy cleaning for maintaining high efficiencies
- Cooling operation up to 125°F ambient
- Foil faced insulation encapsulated throughout entire unit minimizes airborne fibers from the air stream
- Hinged major access doors with heavy-duty gasketing, 1/4 turn latches and door retainers
- Slide Out Indoor fan assembly for added service convenience
- Powder Paint Finish meets ASTMB117 steel coated on each side for maximum protection. G90 galvanized
- Base pan with drawn supply and return opening for superior water management
- Forkable base rails for easy handling and lifting
- Single point electrical connections
- Internally sloped slide out condensate pan conforms to ASHRAE 62 standards
- High performance belt drive motor with variable pitch pulleys and quick adjust belt system
- Permanently lubricated evaporator, condenser and gas heat inducer motors
- Condenser motors are internally protected, totally enclosed with shaft down design
- 2 inch standard filter with slide out filter rack
- 24 volt control system with resettable circuit breakers
- Color-coded and labeled wiring
- Copper tube/Aluminum Fin indoor coils
- Factory-Installed Direct Digital Control (DDC) and sensors which can connect to LonWorks® or BACnet® BAS systems for remote monitoring and control
- Blower with Variable Frequency Drive (VFD) control is standard
- MERV 8 and MERV 13 filters are available as a factory or field-installed option
- Standard Modbus interface
- Refrigerant leak detection system

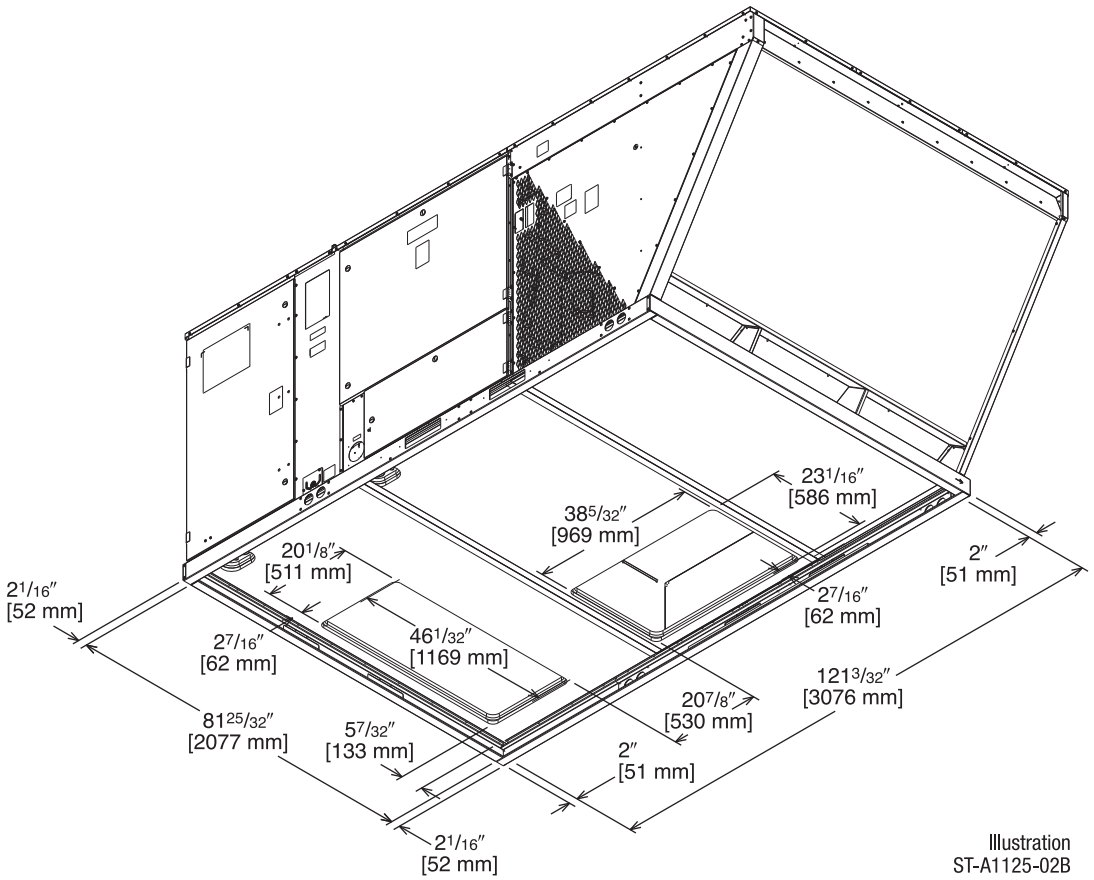
Designing for Sustainability with Low GWP

LOW GWP Refrigerant

For 2025, the Environmental Protection Agency (EPA) has set a global warming potential (GWP) limit of 700 for refrigerant used in most heating and cooling systems. This new requirement will result in a 78%[1] lower GWP than previous-generation refrigerants—with only minimal changes to system installation. For us, this is another step toward our ongoing sustainability goal of reducing greenhouse gas emissions, while still delivering an exceptional level of energy efficient, dependable comfort.

[1]When comparing the GWP of R-454B to R-410A refrigerant.





BOTTOM VIEW

[ ] Designates Metric Conversions

SUPPLY AND RETURN DIMENSIONS FOR HORIZONTAL APPLICATIONS (VIEW FROM REAR DUCT SIDE)

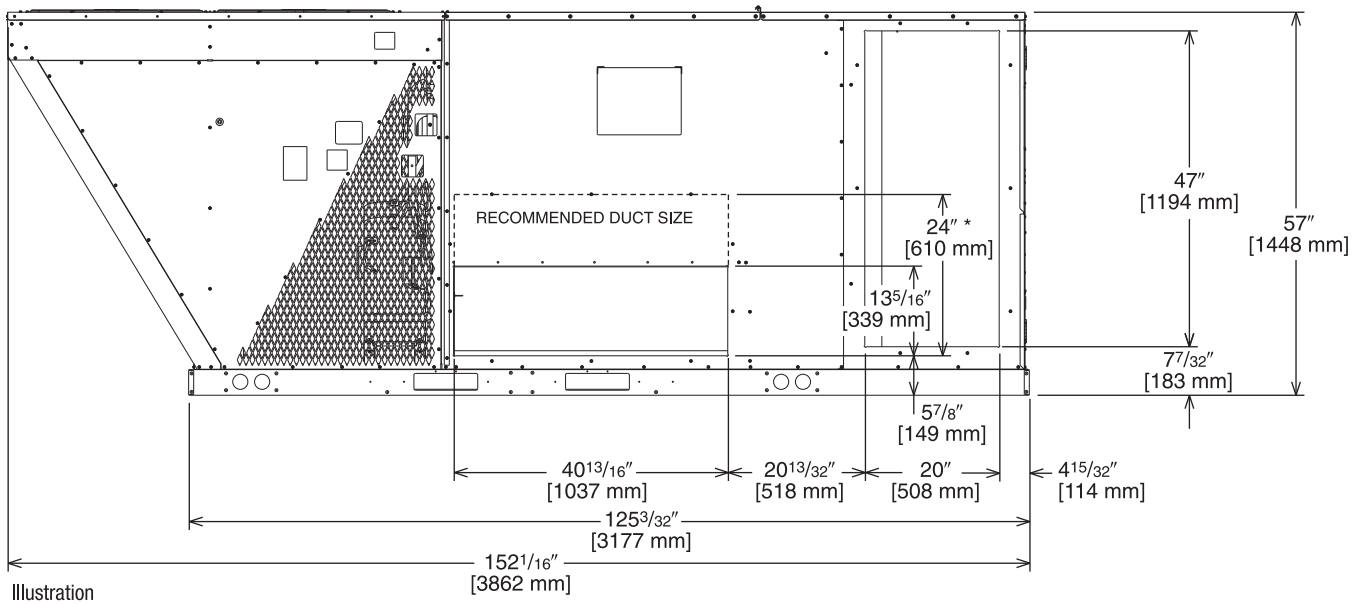


Illustration
ST-A1125-08B

* RECOMMENDED DUCT SIZE

SUPPLY AND RETURN DIMENSIONS FOR DOWNFLOW APPLICATIONS (VIEW FROM BOTTOM UP)

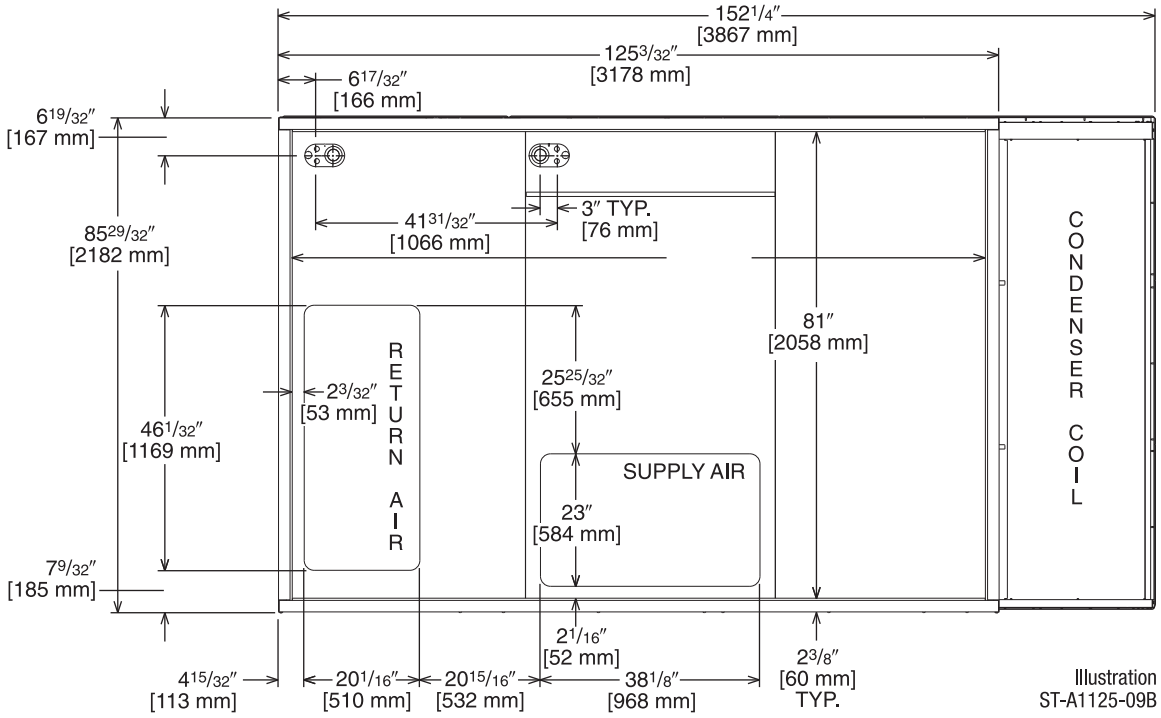


Illustration
ST-A1125-09B

[ ] Designates Metric Conversions

UNIT DIMENSIONS

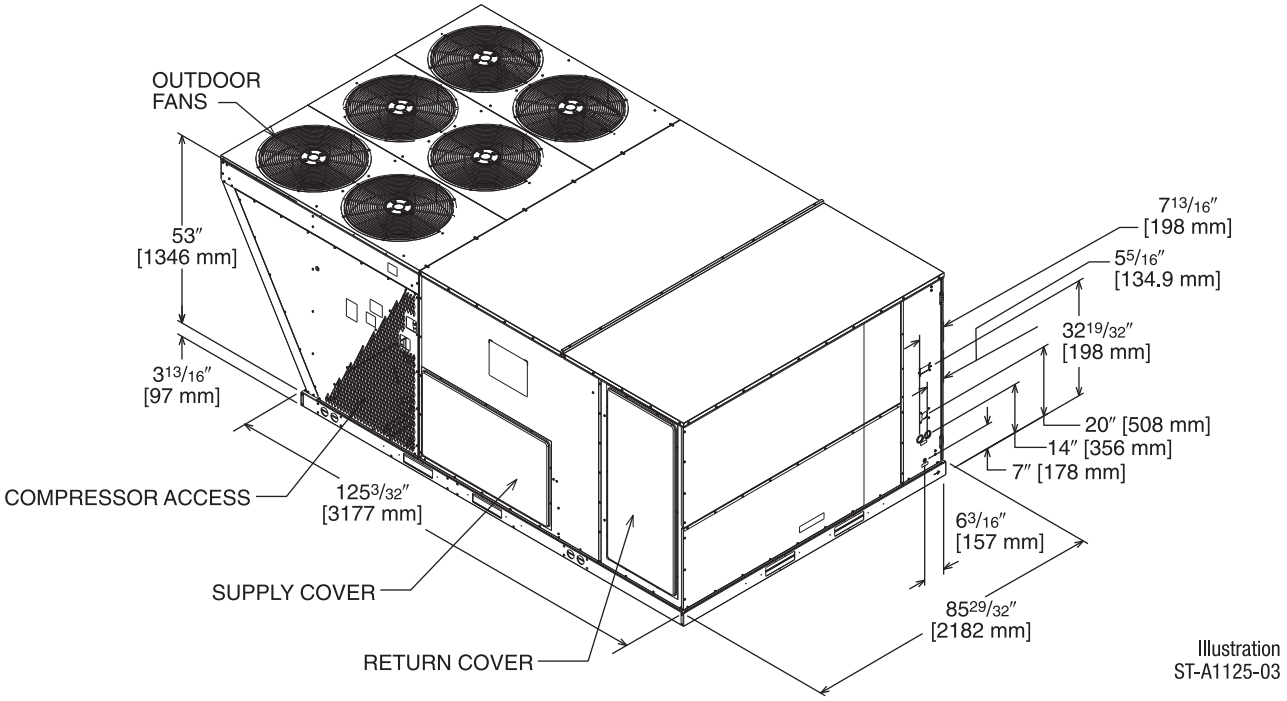
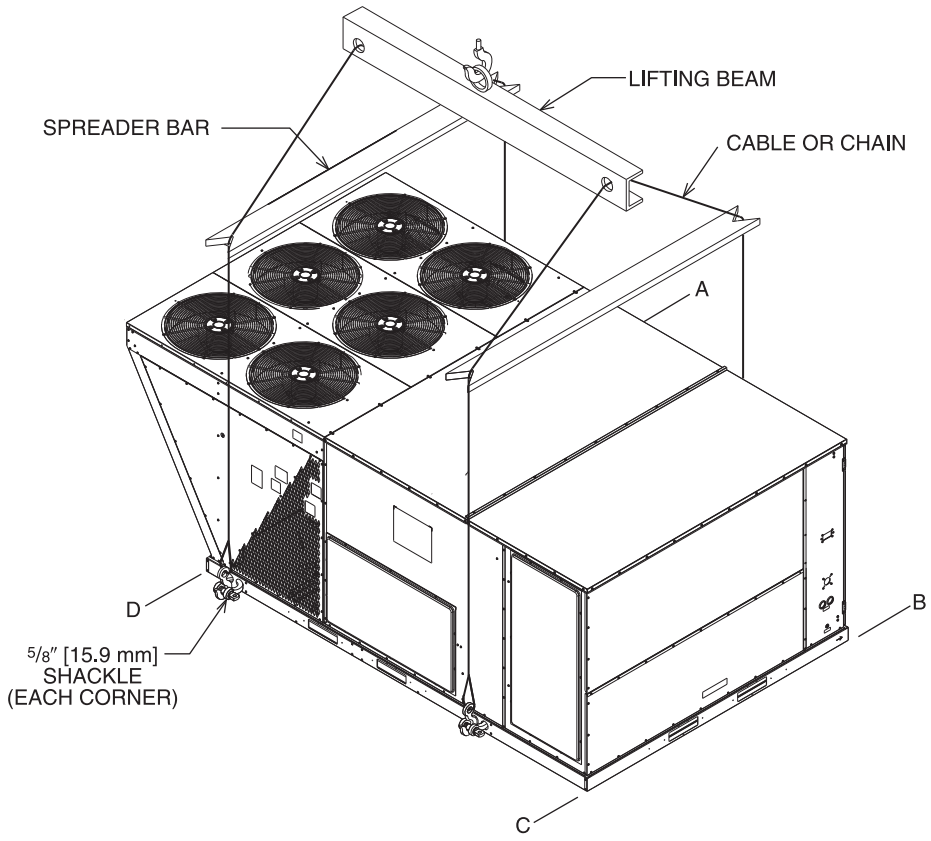


Illustration ST-A1125-03



Corner Weights by Percentage			
A	B	C	D
32%	27%	16%	24%

Corner weights measured at base of unit.

[ ] Designates Metric Conversions

SLAB INSTALLATION

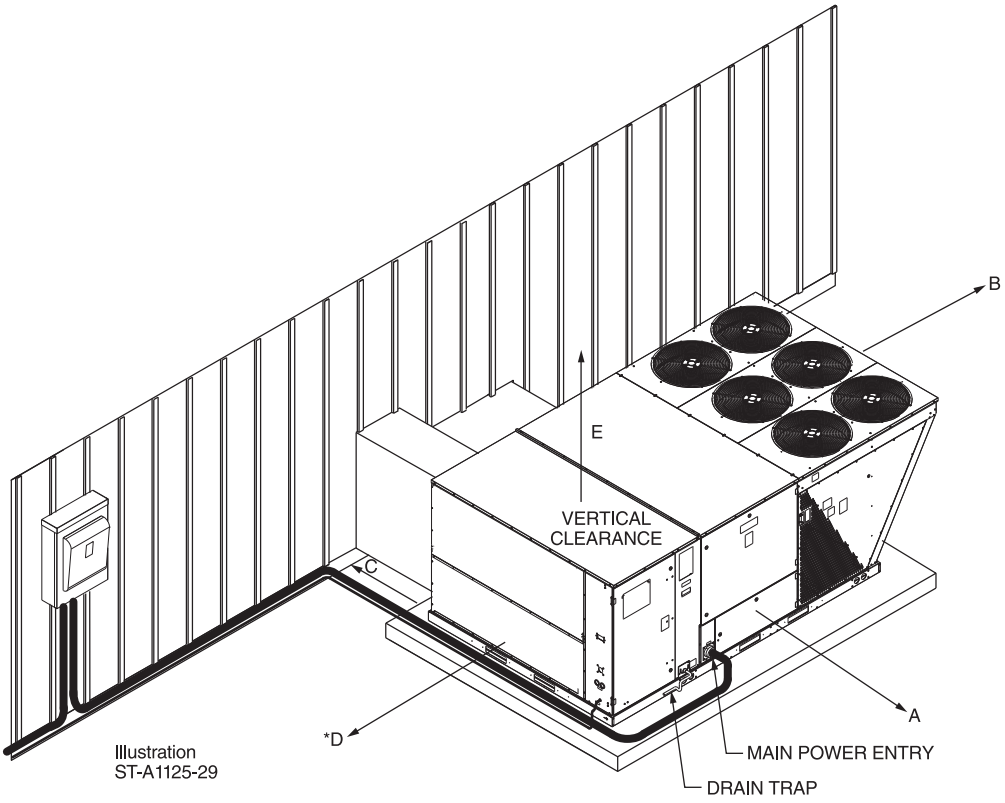


Illustration
ST-A1125-29

CLEARANCES

The following minimum clearances are recommended for proper unit performance and serviceability.

Recommended Clearance In. [mm]	Location
80 [2032]	A - Front
18 [457]	B - Condenser Coil
18 [457]	+C - Duct Side
18 [457]	*D - Evaporator End
60 [1524]	E - Above

*Without Economizer 18" [457 mm].
With Economizer 48" [1219 mm].
+Without Horizontal Economizer 18" [457 mm].
With Horizontal Economizer 42" [1067 mm].

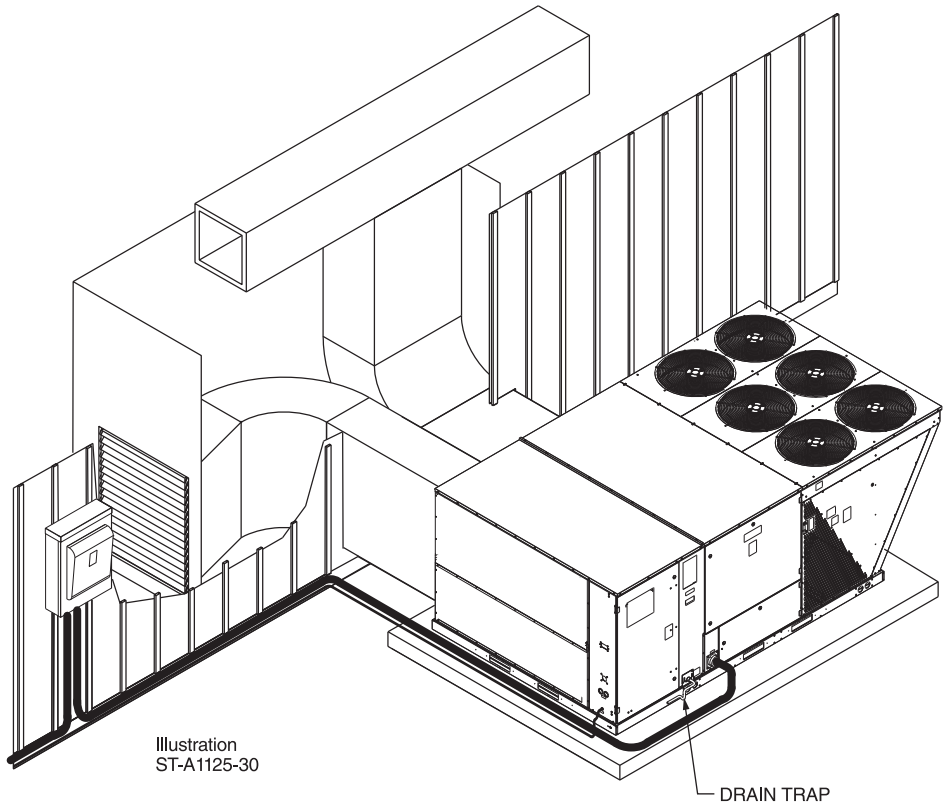


Illustration
ST-A1125-30

[ ] Designates Metric Conversions