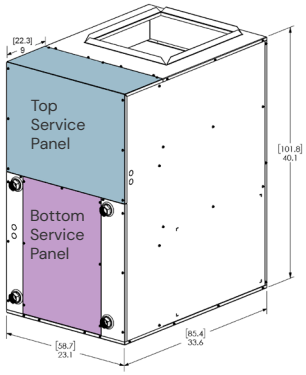
ANESI®

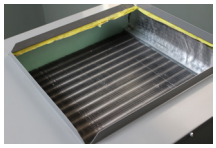
YOUR CHALLENGE
OUR SOLUTION

Stay Cool

Integrating air conditioning coils with the Anesi air handling unit for cooling applications

DX COOLING COILS
WITH THE ANESI AH1400





Anesi® AH1400 Custom Air Handling Unit

The integration of air conditioning into Anesi's high-efficiency gas heat pump system is facilitated by its innovative design. The Anesi equipment supports direct expansion (DX) coil integration with its custom air handler unit (AH1400), maintaining optimal performance and system efficiency. The AH1400 supports a wide range of evaporator configurations from other manufacturers, enabling versatile equipment selection for both retrofit and new construction applications. The Anesi AH1400 control software integrates seamlessly with third-party equipment, enabling unified operation through the same thermostat that controls the Anesi system. The flexibility of Anesi's design allows HVAC professionals to tailor solutions without compromising reliability or comfort.

Stone Mountain Technologies manufactures Anesi innovative gas absorption heat pumps for residential and commercial use.

AnesiComfort.com

340 Industrial Park Road | Piney Flats, TN | 37686

Guidelines

Maximum AC Size: 3.5 ton

Retrofit: During job scope, measure the available static pressure at the existing furnace to determine the baseline ducting performance.

New Construction Planning: During the job scope, verify the duct design airflow and adjust blower speeds as noted below.

Mounting Scenarios

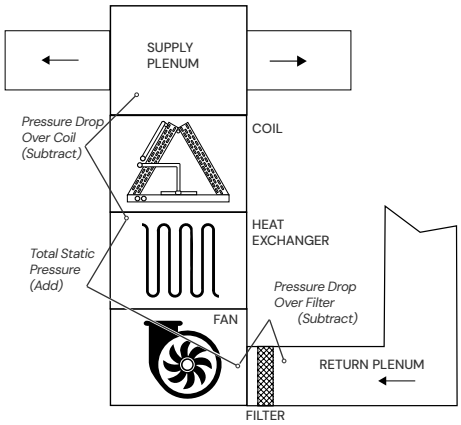
Cased and uncased coils may be mounted to the AH1400 in combination with transitions as necessary. Special attention must be given to service access during the system design phase. Piping should not block the lower service panel. The DX coil and condensate drain piping should not inhibit access and removal of the top service panel. All coils must be placed on a drain pan to collect and dispose of the condensate.

Blower Speed Adjustment

Blower speeds are adjusted through the Anesi APP. Measure the external static pressure in the building at low, medium, and high speeds. Reference the A0802WAVXX Installation Manual for the Blower Performance Data Table and adjust the speeds to meet the Anesi recommended flow rates shown in Table 1. Adjust the speed settings as necessary to compensate for each site's ductwork.

Thermostat Integration

The AH1400 control board includes thermostat connectors for cooling integration. Refer to the Installation Manual for full details. Factory support is available for two-stage cooling configurations and application-specific control challenges.



Points to measure pressure changes in a typical air handling unit

Table 1

	LOW	MED	HIGH
CFM [L/s]	500 [235]	900 [425]	1400 [660]

Uncased Coils

Transition

Cased Coils

Direct Mount

Transition

Retrofitting or installing a companion DX coil with the Anesi AH1400 offers a robust solution for enhancing cooling capabilities while maintaining the Anesi system's high-efficiency heating performance. By accommodating a DX coil, the Anesi system becomes a versatile option for residential applications where both heating and cooling are essential, allowing homeowners to benefit from a single, integrated system.

ANESI

BETTER EFFICIENCY. BETTER COMFORT. BETTER PLANET.