

# Wing FAS

## Fresh Air Supply Units

### Description

The Fresh Air Supply (FAS) provides a versatile heating system for installation in wall openings or with roof mounted intake hoods. It combines up to a 7.5 HP fan with a unique damper modulated, air flow system, over hot water or steam coils to deliver up to 26,000 CFM of temperature controlled make-up air.



### Product Details

- Four methods of outside airflow control available:
  - Two-Speed Motor:** Optional two-speed motors for two stages of airflow.
  - Mixing Box:** A mixing box matches outside air intake to the demands of the boiler(s).
  - Variable Frequency Drive:** The delivery of outside air can be modulated as the demand for combustion air changes
  - Multiple FAS units:** With each FAS units serving the combustion airflow needs of a single boiler in a gang.
- Two control configurations available:
  - Airstream control,** a single sensing element located in the discharge airstream.
  - Room with Low Limit control** uses the airstream controller as its low limit and adds a room thermostat as the primary control.
- Single phase or three phase, propeller fan. Belt or direct drive configurations available.
- Horizontal units mount easily on a side wall and require no floor space. Vertical units leverage roof mounting with optional revolving discharge.
- Unit ships complete with controls. Bypass section is integral to the steam or hot water coil.



#### Key Features

Chose either steam or hot water

Supports full steam pressure or hot water on the coils at all times

Delivers up to 26,000 CFM

Compact wall-mounted package

#### Benefits

- ✓ Increase boiler efficiency by 1% for every 40 ° F of preheat
- ✓ Leverage excess boiler capacity to deliver temperature controlled make-up.
- ✓ Offers freeze protection of unit and surrounding area improving the reliability and safety of boiler and turbine room operations
- ✓ Provides make up air for processes including water treatment, painting, plating, welding, etching, chemical
- ✓ Supports up to 49.862 MBH of boilers
- ✓ Reduces louver sizes by 70 to 80%.
- ✓ Extends Boiler life
- ✓ Offering design flexibility, requiring no floor space and small wall or ceiling openings



# Wing HS FAS

## High Static Fresh Air Supply Units

### Description

The High Static Fresh Air Supply (HS FAS) provides a versatile heating system for applications requiring the ducting or filtering of make-up air. Supporting up to Merv 10 filters or 2.5 inches of ducted static pressure, the HS FAS is the perfect make-up air heater for interior rooms such as kitchens, painting, plating, welding, etching, and other food or chemical processing facilities.



### Product Details

- Delivering 2.0" to 2.5" of static allowing the unit to be located in the middle of a large space or ducted to a location inside the space.
- 3/8" fin tube IFB coil to regulate the outlet temperature.
- High efficiency EC Plenum fan
- Horizontal package available with optional 45 Degree Inlet Hood, and space for Mixing Box, and Filters
- Two versions of controls available: **Constant volume Airflow**, delivering the catalog CFM regardless of static pressure.  
**True DDC control** allowing the unit to integrate with an existing building management system or act as a standalone control

855 CFM to 10,000 CFM



#### Key Features

Static Pressure up to 2.5 inches W.C.

Variable Speed EC Plenum Fan

Steam pressure / hot water on the coils at all time

DDC Controls:  
BACnet  
ModBus  
N2Bus  
LonWorks

Compact wall-mounted package

#### Benefits

- ✓ Allows make up air to reach interior rooms
- ✓ Supporting up to Merv 10 filters
- ✓ Efficiently matches make-up air to the requirements of the room or application
- ✓ Lower power consumption than tradition solutions
- ✓ Offers freeze protection of unit and surrounding area improving the reliability and safety of boiler and turbine room operations
- ✓ Controllable by boiler and building management system
- ✓ Standalone system if required
- ✓ Real time communication of unit's status
- ✓ Controls temperature and CFMs separately
- ✓ Offering design flexibility, requiring no floor space and small wall openings

