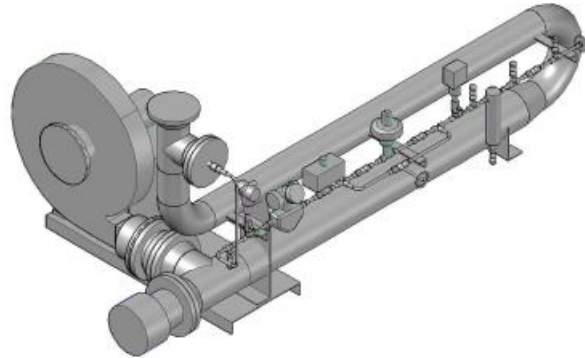




INTEGRATED FLOW SOLUTIONS

## AFCU 2020 Standard Ammonia Flow Control Units

Integrated Flow Solutions AFCU 2020 Standard Ammonia Flow Control Units are designed to control the flow of ammonia from the Ammonia Storage / Forwarding System into an exhaust gas stream for NOx reduction. The air is typically pressurized with a centrifugal blower and heated with an electric process heater. Aqueous Ammonia is injected into the discharge of the package and mixed with the heated air. The hot air vaporizes the ammonia prior to injection into the Ammonia Injection Grid (AIG).



### Industries



### NOx Reduction Applications:

- Simple Cycle Power Plants
- Combined Cycle Power Plants
- Gas fired boilers
- Furnaces

### Standard Sizes:

- AFCU 2100 – 100 #/hour & 60 KW
- AFCU 2150 - 150 #/hour & 80 KW
- AFCU 2250 – 250 #/hour & 120 KW
- AFCU 2400 – 400 #/hour & 200 KW

### Benefits:

- Typical Single Source Accountability
- Pre-Packaged Modular Design Costs Less than component based site built which reduces overall project cost
- Minimizes field erection time – shorter overall project delivery schedule
- Complete system function testing prior to shipment
- 24/7 Customer service

### Standard Features:

- Single Heavy Duty Centrifugal Air Blower
- Flanged Electric Process Heater
- DCS/SCADA Control with Local Heater Power Panel
- Vaporization using Co-Current Mixing or Counter Flow Contact Technology
- Complete factory acceptance test

### Standard Combustion Turbine Designs:

- Non-Attainment Areas (9 PPM NOx)
  - GE LM6000
  - Siemens RB211
  - GE LMS100
- Attainment Areas (2.5 PPM NOx)
  - GE LM6000
  - Siemens RB211
  - GE LMS100

### Optional Features:

- (2) 100% Heavy Duty Centrifugal Blowers
- Locally mounted Dual Loop PID controller with Solid State Relays for Heater Control
- Locally mounted Dual Loop PID controller with SCR for Heater Controls
- Locally mounted Allen Bradley Compact Logix PLC with SCR for Heater Controls
- Complete Factory Performance Test
- UL or CSA Listed Control Heater & Control Panel Assembly
- Class 1, Div 2 Hazardous locations
- Compliance with Plant / Engineering Specifications
- Complete factory run test

### Additional Services:

- “Aspen Plus” Process Simulation Software used to guarantee process conditions
- Installation / Training / Start – Up Supervision
- Extended warranty
- Worldwide Service Network

# TYPICAL IFS AFCU 2020

