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## GENERAL INFORMATION

The AMX air make up unit is ideal to compensate the process exhaust air or for general ventilation to respect codes and regulations. The installation of an Airex AMX unit is the most efficient way to maintain indoor air quality by diluting airborne contaminants with outside fresh air. Also, the addition of Airextube flexible supply air duct named will eliminate the air stratification often seen in high open areas thus reducing significantly the energy consumed to heat the space.

**AIREX** FIG.01  
INDUSTRIES DIRECT GAS LINE SETUP OF A  
AMX AIR MAKE-UP SYSTEM

### HERE ARE SOME OF THE FEATURES AND BENEFITS THAT COME WITH THE AMX SERIES UNIT.

- Reduction of infiltration of cold air and outside contaminants
- Eliminate the building indoor negative pressure.
- Improve the efficiency of gas heating equipments.
- Improve the efficiency of process exhaust equipments.
- Reduce the energy consumption

## THEORY OF OPERATION

### HOW THE AMX SERIES AIR MAKE-UP SYSTEM WORK

The outside air is drawn up through the filtered hood and passes in a serie of controlled dampers and tempering device using gas or electricity to produce energy. The tempered air then goes through the high efficiency fan to be redirected in the distribution/destratification air supply duct.

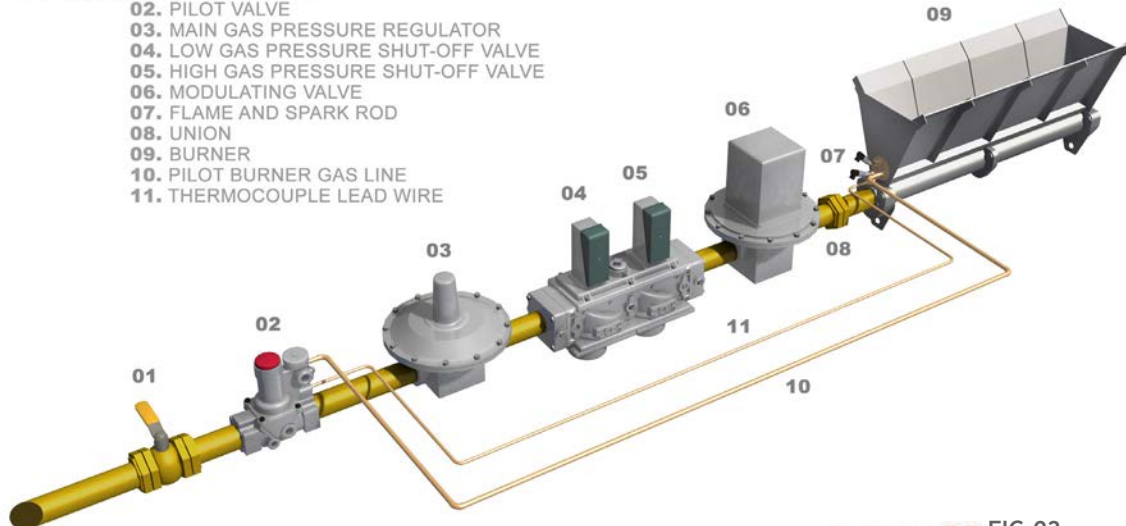
### THE CRITERIA FOR SELECTING A AMX SERIES AIR MAKE-UP SYSTEM ARE:

- Building height
- Existing negative pressure
- Indoor air quality to respect local codes and regulations
- Local meteorological conditions
- Building inside temperature
- Supplied air volume
- Ductwork length

### THE AMX SERIES AIR MAKE-UP UNIT PROVIDING INSTALLATION FLEXIBILITY AND CAN BE USED IN A WIDE VARIETY OF PLACES.

- Commercial kitchen
- Laboratories
- Paint booths
- Underground parking
- Mechanical rooms
- Building negative pressure rectification
- Industrial processes

- AIREX**  
**LEGENDE**
- 01. MAIN GAS VALVE
  - 02. PILOT VALVE
  - 03. MAIN GAS PRESSURE REGULATOR
  - 04. LOW GAS PRESSURE SHUT-OFF VALVE
  - 05. HIGH GAS PRESSURE SHUT-OFF VALVE
  - 06. MODULATING VALVE
  - 07. FLAME AND SPARK ROD
  - 08. UNION
  - 09. BURNER
  - 10. PILOT BURNER GAS LINE
  - 11. THERMOCOUPLE LEAD WIRE



**AIREX** FIG.02  
INDUSTRIES EXEMPLE OF A MOUNTED  
AMX GAS LINE

THE AMX SERIES UNIT IS MANUFACTURED UNDER HIGH QUALITY STANDARDS, INCLUDING STANDARD CHARACTERISTICS.

- Rain hood
- Motorized dampers
- Acoustically insulated frame
- Gas/electric or propane heating device
- Mixing box
- Belimo motors modulating devices
- Recirculation damper
- Outside air damper
- Industrial access doors
- Air filters
- CSA approved control panel
- Remote status panel

INCLUDING THESE OPTIONNAL FEATURES, THE AMX SERIES IS THE AIR MAKE-UP SYSTEM FOR YOUR NEEDS.

- Airex Industries SpeedFX to modulate the amount of treated air and reduce energy consumption.
- Energy recovery devices
  1. Thermal wheel
  2. Thermogain coil
  3. Glycol based heat recovery network
  4. Thermal storage with Airex PCM (Phase Change Material)
- integrated cooling coil
- The new 2010 PowerFX
- Combination of the above for optimum efficiency