



GUNN & PEGELOW, INC.
ASHLEY CIRCLE UNIT #107
LIBERTYVILLE, ILLINOIS 60048-9648
847/573-7030 FAX 847/573-1824

ENVIRONMENTAL SYSTEMS REPRESENTATIVES

<http://www.gandp.com>

Makeup Air

Information you need to pick a unit...

- **Indoor or Outdoor** unit?
- **CFM** = _____
- **BTU or Temperature Rise** (BTU = CFM x Temp. Rise x 1.085) = _____
- **ESP** (External Static Pressure) = _____ " W.C.
- **Voltage / Phase** = _____ / _____

Information you want to help select important options ...

- Configuration (**Horizontal** discharge or **Down** Discharge (AQ5) ?)
- Want Stainless steel burners and drip pan? Need S.S. Heat Exchanger if you have outside air.
- Gas Train with Ductstat (**2 stage** (AG3) or **Electronic Modulation** (AG8)?)
- Filter Type (**1"** or **2"** **Disposable, Pleated, or Permanent** ?)
- Damper arrangement (AR8 = 100% outside air)

How do they want to turn unit on and off?

- ✓ **Remote Console** with On/Off switch (RC Options)?
Or
- ✓ **Relay** for Exhaust Fan Interlock ?

Other items you may need ...

- ❖ **HOOD** with Birdscreen
- ❖ **CURB**
- ❖ **FREEZESTAT**
- ❖ **HIGH AMBIENT CONTROL** (INLET DUCTSTAT)
- ❖ **ROOM OVERRIDE THERMOSTAT** (NOT RECOMMENDED FOR 100% O/A MUA UNITS)
- ❖ **COOLING**

Gas Train Style:

Standard (ANSI) FM (Factory Mutual) IRI (Industrial Risk Insurers)

Gas Supply Staging: **2-Stage** **Electronic Modulation**

Special Gas Train Requirements:

Filter Type:

1" Disposable 2" Disposable Pleated 1" Permanent

2" Permanent

V- Bank Arrangement Hood/ Filter Combo (direct fired)

Damper Arrangement:

Outside Air Only Combination O/A and R/A

Describe Damper Control (Fixed mix, Close on Shutdown, Pot Control, Etc.):

Miscellaneous: Flat Curb Hood Freezestat

Inlet Ductstat Time Clock

Cooling (need entering & leaving conditions) _____

Sequence of Operation:



Tuesday, December 20, 2005

CAUA Quotation Request Form:

BTU =

CFM =

External (duct work) static pressure =

Voltage/phase =

Cooling wanted? ____ / tons ____

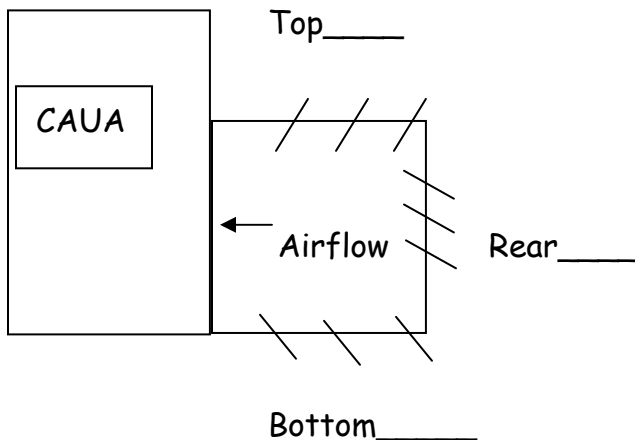
Mixing box needed?

Dampers on both return and outside air openings? _____

How do you want to control dampers? _____

Filters wanted? 2" disposable or permanent

Outside air and return air dampers in what positions?



No mixing box, but want **filter cabinet** =

2" disposable or pleated?

Side return opening, Rear return opening, or Bottom return air opening?



Reznor MAPS Unit Information:

Helpful information needed to select the appropriate Reznor packaged heating/cooling unit...

- **Application:** (i.e. Corridor Make-up Air) _____
- **CFM:** _____ CFM of outdoor air _____ CFM of return air (if applicable)
- **Entering Outdoor Air Conditions:**
 Summer _____ db / _____ wb
 Winter _____ db

Entering Return Air Conditions: (if applicable)

Entering Mixed Air Conditions: (if applicable)

or

Summer _____ db / _____ wb
Winter _____ db / _____ wb or _____ % r.h.

Summer _____ db / _____ wb
Winter _____ db

- **Desired Leaving Conditions:**
 Summer _____ db / _____ wb
 Winter _____ db
- **Voltage/Phase** _____
- **External Static Pressure:** _____ "w.c.
- **Filter Preference:** 2" Pleated, 2" Permanent, or 4" Pleated
- _____ **Down Discharge** (standard) or _____ **Horizontal Discharge** (Special Curb)
- **Air Control Options (Dampers):** _____
 (i.e. sequence of damper operation; 100% outside air)
 _____ **Enthalpy Controls** (option **AR2E** – return air and outside air for free cooling)
- **Energy Recovery:** _____ (_____ with economizer controls)
 Exhaust _____ CFM
 Supply _____ CFM

Additional Info:



Factory Assisted Startup Form

Job Name: _____	Date: _____
Street Address: _____	Contractor: _____
City, State, Zip: _____	Contractor Contact: _____
Owner Contact: _____	Contractor Phone #: _____
Owner Phone #: _____	Model #: _____
Distributor: _____	Serial #: _____
Distributor Contact: _____	Tag: _____

Startup Checklist - General Checks

Inspect Unit for Damage: <input type="checkbox"/>	Energize Crankcase Heaters 24 Hours Before Startup: <input type="checkbox"/>
Verify Shipping Brackets Are Removed: <input type="checkbox"/>	Verify All Air Filters Are Installed: <input type="checkbox"/>
Verify Phasing Wired Correctly: <input type="checkbox"/>	Electrical Entrances Sealed to Weather: <input type="checkbox"/>
Check Clearances: <input type="checkbox"/>	Inspect Damper Assemblies: <input type="checkbox"/>
Check All Fans for Free Movement: <input type="checkbox"/>	Verify Voltage: <input type="checkbox"/>
Verify All Copper Tubing Is Isolated And Does Not Rub: <input type="checkbox"/>	Check Manual Resets: <input type="checkbox"/>
Check Fuses/Breakers for Correct Sizing: <input type="checkbox"/>	Check Condensate Connections: <input type="checkbox"/>
Check & Tighten All Electrical Terminals: <input type="checkbox"/>	Check Optional Dirty Filter Switch: <input type="checkbox"/>
Tighten All Set Screws On Pulleys, Bearings and Fans: <input type="checkbox"/>	Check Optional Hot Gas Bypass Valve: <input type="checkbox"/>

Additional Comments: _____

Outdoor Air Conditions: Dry Bulb Wet Bulb

<p>Evaporator Blower Assembly:</p> <p>Fan Alignment: <input type="checkbox"/> Belt Tension: <input type="checkbox"/></p> <p>Check Fan Rotation: <input type="checkbox"/> VAV Controls: <input type="checkbox"/></p> <p>Motor HP: _____</p> <p>Name Plate AMPS: _____</p> <p>Motor Make/AMPS: L1 L2 L3</p> <p>_____</p>	<p>Optional ERV / Exhaust Assembly:</p> <p>Fan Alignment: <input type="checkbox"/> Belt Tension: <input type="checkbox"/></p> <p>Check Fan Rotation: <input type="checkbox"/> Air Balance: <input type="checkbox"/></p> <p>Intake Motor HP: _____ Exhaust Motor HP: _____</p> <p>Name Plate AMPS: _____ Name Plate AMPS: _____</p> <p>Motor Make/AMPS: L1 L2 L3</p> <p>Inlet: _____</p> <p>Exhaust: _____</p>
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<p>Condenser Fans:</p> <p>Name Plate AMPS: _____</p>	<p>Motor Make/AMPS: L1 L2 L3</p> <p>Fan 1: _____</p> <p>Fan 2: _____</p> <p>Fan 3: _____</p>
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Compressor Data:	L1	L2	L3	Name Plate RLA	Head Pressure PSIG	Suction Pressure PSIG	Superheat	Crankcase Heater AMPS
Compressor A	_____	_____	_____	_____	_____	_____	_____	_____
Compressor B	_____	_____	_____	_____	_____	_____	_____	_____
Compressor C	_____	_____	_____	_____	_____	_____	_____	_____
Compressor D	_____	_____	_____	_____	_____	_____	_____	_____

<p>Gas Heating Section: LP Gas <input type="checkbox"/> Natural Gas <input type="checkbox"/></p> <p>Purge Air From Lines <input type="checkbox"/></p> <p>Max. Inlet Gas Pressure: 14" WC for both LP And Natural Gas</p> <p>Min. Inlet Gas Pressure: 5.5" WC for 3 Stage Natural Gas 6.0" WC for 6:1 Modulation Natural Gas 11" WC for 3 Stage LP Gas</p> <p>Actual Inlet Gas Pressure: _____</p> <p>Desired Manifold Pressure of Single Stage Valves Below 2000 Feet Elevation at Full Fire:</p> <p>Natural Gas 3.5" WC LP Gas 10" WC</p> <p>Actual Manifold Gas Pressure: _____</p> <p>1/3 Valve: _____</p> <p>2/3 Valve: _____</p>	<p>Electric Heating Section:</p> <p>Heater Number and AMPS</p> <p>1 _____</p> <p>2 _____</p> <p>3 _____</p> <p>4 _____</p> <p>5 _____</p> <p>6 _____</p>
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Reznor Direct-Fired Equipment Test Data

(Return Completed Form to 847-573-1824)

IN ORDER FOR US TO ANALYZE AND ASSIST YOU WITH THE PROBLEMS YOU ARE EXPERIENCING ON YOUR START-UP OF REZ NOR EQUIPMENT, WE WILL NEED THE FOLLOWING TEST DATA TAKEN IN THE FIELD FROM THE UNIT. WITHOUT THIS TEST DATA, WE CANNOT SCHEDULE A FIELD VISIT.

FROM THE VARIOUS TAGS AND PLATES:

1. Unit Model: _____ Serial Number: _____
2. Wiring Diagram Number: _____
3. From the Rating Plate-Manifold Gas Pressure: _____ Design ESP: _____
4. Motor HP: _____ Nameplate Amp Rating: _____

From Field Measurements:

5. Measure the Pressure Drop Across the Burner: _____ inches of H₂O.
6. Check the Motor Amp Draw: _____
7. Negative Gas Press. on Manometer with Gas Off and Blower Operating: _____
8. Gas Pressure with Burner and Blower Operating: _____
9. Pilot Gas Pressure: _____
10. (ADF Units Only) Are All Status Lights Operating? ____ Last Light Operating? ____

Start-up Technician's Name (please print) _____

Contact Phone Number _____