

REQUIREMENT SPECIFICATION MINNOX BURNER

Page 1 of 5

Date:

Customer:

Project:

Your ref.:

Our ref.:

GENERAL (customer)

Application :  
 Destination country :  
 End User :

INSTALLATION (customer)

Number of installations :  
 Burner assembly : duct unit/side plate unit  
 Burner position :  
 Duct pressure : positive/negative  
 Existing duct dimensions W x H x L :  
 Height with respect to sea level : < 100  
 Installation place : inside/outside  
 Environment : clean/dust/aggressive  
   - Humidity in % :  
   - Temperature maximum in °F :  
 Permissible emissions:  
   - NO<sub>x</sub> :  
   - CO :  
   - HCHO aldehydes :

PROCESS DATA (customer)

## Maximum:

- process air mass flow in scfh :  
 - duct pressure in inches w.c. :  
 - inlet temperature in °F :  
 - outlet temperature in °F :  
 - moisture contents in lbs/ H<sub>2</sub>O/lb dry air :

## Minimum:

- process air mass flow in scfh :  
 - duct pressure in inches w.c. :  
 - inlet temperature in °F :  
 - outlet temperature in °F :  
 - moisture contents in lbs. H<sub>2</sub>O / lbs. dry air :

Process air condition : clean/dust/aggressive  
 Burner capacity in Btu :  
 Turndown ratio :



REQUIREMENT SPECIFICATION MINNOX BURNER

Date:

Customer:

Project:

Your ref.:  
Our ref.:

---

FUEL (customer)

Type of gas : natural gas  
Lower heating value in Btu/cu.ft. :  
Specific gravity :  
Available gas pressure in maximum psig :  
Available gas pressure in minimum psig :

COMBUSTION AIR (customer)

Combustion air condition : fresh and clean from an uncontaminated area  
Oxygen content in volume % : 21  
Contents of moisture in :  
Air pressure at fan inlet in inches w.c. : 0  
Combustion air temperature in °F : 70

FLAME MONITORING (customer)

Self-check system : yes/no

ELECTRICITY (customer)

Voltage : 460/3/60  
Zero available : yes/no  
Control voltage in V : 115/1/60  
Frequency in hz : 60  
Protection class control panel :  
Protection class control equipment :  
Electrical prewiring to a central connection box  
supplied by Eclipse : yes/no

EXTERNAL CONDITIONS/REQUIREMENTS (customer)

Gas codes :  
Environmental codes :  
Mechanical codes :  
Electrical codes :  
Client codes :  
Others :



REQUIREMENT SPECIFICATION MINNOX BURNER

Page 3 of 5

Date:

Customer:

Project:

Your ref.:

Our ref.:

---

LOOSE ACCESSORIES (Customer)

Maximum temperature sensor (supplied by Eclipse) : no/yes  
Process air temperature sensor : no/yes  
Type of temperature sensors :  
Insertion length of temp. sensor in inches :  
Process air pressure switch :

MINNOX BURNERS (Eclipse)

Quantity :  
Burner type : MINNOX....CCS  
Gas consumption (Btu/hr) :  
Turndown ratio : 10:1  
Flame monitoring : UV/ionisation  
Pilot option : A/B

DUCT/SIDE PLATE UNIT (Eclipse)

Duct dimensions W x H x L (inches) :  
Side plate dimensions H x L (inches) :  
Distance mounting plate - duct centre :  
Material : mild steel  
Insulation delivery Eclipse : yes/no  
Insulation : inside/outside  
Insulation thickness (inches) :  
Painting : heat resisting gray  
thickness 2 micron  
Drilling pattern connection flanges : Eclipse standard 150#  
Drilling pattern side plate : Eclipse standard  
Material : mild steel

GAS VALVE TRAIN (Eclipse)

Gas flow in cfm :  
Inlet pressure (psig) :  
Diameter DN :  
Welding checks :  
Kind of flange : DIN/ASA  
Kind of thread : standard  
High pressure reducing : no/yes/relief/OPSO  
Leakage test : no/yes  
Switch for start position : no/yes  
Increased start position : yes



REQUIREMENT SPECIFICATION MINNOX BURNER

Date:

Customer:

Project:

Your ref.:

Our ref.:

---

Closed position switch on safety valve: : no/yes  
Control valve : proportionator

Equipment\* :

- safety shut-off valves :
- proportionator :
- pilot solenoids :
- pressure switches :
- filter :
- manual shut-off valves :
- pressure gauges :
- butterfly valve :

COMBUSTION AIR BLOWERS DELIVERY AS LOOSE ITEM (Eclipse)

Static outlet pressure (inches w.c.) :  
Air volume in scfh :  
Blower position :  
Make of motor : standard blower supplier  
Motor power (h.p.) :  
Voltage in V : 460/260-3-60  
Sound level in dB(A) : no limit  
Mounting of the blower : by customer  
Accessories : filter/silencer/vibration damper

COMBUSTION AIR CAPACITY CONTROL (Eclipse)

Control motor sequence time :  
Control motor make :  
Control motor input :  
Control valve :

---

\* Eclipse reserves the right to change the equipment, based upon availability of the equipment.



REQUIREMENT SPECIFICATION MINNOX BURNER

Date:

Customer:

Project:

Your ref.:

Our ref.:

---

BURNER CONTROL MANAGEMENT (Eclipse)

Panel mounting : remote  
Equipment : Eclipse standard  
Protection class :  
Motor starter combustion air blower :  
Control transformer :  
Failure signaling :  
Type of burner flame safety :  
Self-check :  
Process temperature controller :  
High process temperature limit switch : yes/no  
Paint control box :  
High burner temperature limit :

DOCUMENTATION (Eclipse)

Number of sets of assembly drawings for approval or record :  
Number of sets accompanying the supply :  
Management of gas approval by authorities : customer  
Operation & maintenance manual quantity :



**Offered By:**

Power Equipment Company  
2011 Williamsburg Road  
Richmond, Virginia 23231  
Phone (804) 236-3800  
Fax (804) 236-3882

---

[www.peconet.com](http://www.peconet.com)