

Contact:				Phone:			
Company:				Fax:			
Street Address:				Email:			
City:			Zip Code:			Cust Ref:	
State:			Country:			Country of Installation	

**Briefly describe your vacuum process:**

**Bid Information**

Project Timeline to PO:  <30 days  1-6 months  6-12months  1yr+

Budgetary  Firm  Date Proposal Required \_\_\_\_\_

Please include any Specifications, P&IDs, or Scope of Supply Documents

**Site Conditions**

Ambient Temperature Min. \_\_\_\_\_ Max. \_\_\_\_\_

Elevation (above sea level) \_\_\_\_\_

**Gas Data**

Gas Composition Breakdown  Mass %  Mole %

Custom Gas Mix:

Gas 1 \_\_\_\_\_  
 Gas 2 \_\_\_\_\_  
 Gas 3 \_\_\_\_\_  
 Gas 4 \_\_\_\_\_  
 Gas 5 \_\_\_\_\_  
 Total 100%

Molecular Weight: \_\_\_\_\_

Specific Heat (Cp) \_\_\_\_\_

Inlet Gas Temperature: \_\_\_\_\_

Does your Gas Mix Contain Condensables?  Yes  No

**Process Conditions**

Steady State

Inlet Pressure (continuous): \_\_\_\_\_

Discharge Pressure: \_\_\_\_\_

Flow Rate (mass or volumetric flow): \_\_\_\_\_

Pump down Application

Volume to Evacuate: \_\_\_\_\_

Desired Time to Evacuate: \_\_\_\_\_

Initial Suction Pressure: \_\_\_\_\_

Final Suction Pressure: \_\_\_\_\_

Known Air Leak in the System:

ACFM \_\_\_\_\_

Massflow \_\_\_\_\_

Is your application a Batch Process?  Yes  No If Yes, how many cycles per hour? \_\_\_\_\_

Does the vacuum system run isolated during off-cycle, or shutdown? \_\_\_\_\_

**Material of Construction Preference**

**\*\*Not all products available in materials shown**

**Metal options\*\***

Cast Iron     Bronze     Stainless Steel

**Elastomers/Shaft Seal options\*\***

FKM     FFKM     EPDM     PTFE

Other \_\_\_\_\_

**Cooling Media Available**

Cooling Liquid (water typical): \_\_\_\_\_ Temperature: \_\_\_\_\_ Flow (gpm) \_\_\_\_\_

**Electrical Controls**

Is an electrical control panel to be included in the Proposal?  Yes     No

Enclosure Type required:  Junction Box only     NEMA 4     NEMA 4X     NEMA 7     IEC IP56 \_\_\_\_\_

Power Supply \_\_\_\_\_ Phase \_\_\_\_\_ Hz \_\_\_\_\_ Voltage \_\_\_\_\_

Starter Type  None     VFD     DOL     Other \_\_\_\_\_

If the panel will be connected to a DCS, please include language protocol \_\_\_\_\_

Do you want Engineering to recommend Instrumentation and Accessories for complete operation?  Yes     No

**Area Classification**

None

NEC Area Classification    Class \_\_\_\_\_ Div \_\_\_\_\_ Groups \_\_\_\_\_

ATEX / IECex    Marking Required \_\_\_\_\_    (Is ATEX required for Machinery too? \_\_\_\_\_)

**Preferred Technology**

Dry     Oil-Sealed     Liquid Ring

If Liquid Ring, please specify the sealant and temperature \_\_\_\_\_

Type of Sealant Recovery?  None     Partial     Full

If there are any special considerations needed for your process that need to be including in the system design, please include below. (i.e. Material Compatibility, Common system failures, physical constraints, process contaminants, etc.)