

MD-Kinney

4840 W. Kearney St. | Springfield, MO 65803

P: (417) 865-8715 | F: (417) 865-2950

Contact:		Phone:	
Company:		Fax:	
Street Address:		Email:	
City:		Zip Code:	
State:		Country:	
		Cust Ref:	
		Due Date:	

Briefly describe your vacuum process:

Site Conditions

Ambient Temperature Min. _____ Max. _____
Elevation (above sea level) _____

Gas Data

Gas Composition Breakdown Mass% _____ or mole% _____

Gas 1 _____
Gas 2 _____
Gas 3 _____
Gas 4 _____
Gas 5 _____

Known air-in leak (ACFM or lb./hr.) _____

Inlet Gas Temperature _____

Process Conditions – select “Steady State” or “Pump down Application”

_____ Steady State (for a continuous process at constant vacuum > 1 hour)

Inlet Pressure (continuous): _____
Discharge Pressure: _____
Flow Rate (mass or volumetric flow): _____

_____ Pump down Application (batch process w/cycle time < 1 hour)

Volume to Evacuate: _____
Desired Time to Evacuate: _____
Initial Suction Pressure: _____
Final Suction Pressure: _____

Seal Liquid (liquid ring pump only)

Type of seal liquid available (Water typical): _____
Temperature: _____

If sealant is other than water give:

Sealant Fluid: _____
Specific Gravity: _____
Specific Heat: _____
Vapor Pressure at operating temperature: _____
Viscosity: _____

Sealant Recovery System

_____ No Sealant Recovery (once through)-NSR
_____ Partial Sealant Recovery- PSR
_____ Full Sealant Recovery- FSR

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Material of Construction Preference

**Not all products available in materials shown

Metal options**

Cast Iron Bronze Stainless Steel

Elastomers/Shaft Seal options**

Viton Teflon EPDM Kalrez

Cooling Media Available

Cooling Liquid (water typical): _____ Temperature: _____

Power Supply

Phase Hz Voltage

NEC Area Classification

Class I (gas)
 Class II (dust)
 Div. 1 (normally present)
 Div. 2 (only present in emergency)

Group (A, B, C, or D): _____

Method of starting:

Direct online (DOL)
 Variable Frequency Drive (VFD)
 Other (e.g. Soft Start): _____

ATEX Area Classification

Class I: _____ Class II: _____
Zone (1,2,21,22): _____
Protection (Exd, Exn): _____
Group (A, B, or C): _____
Temp Code (T1 thru T6): _____

Electrical Controls

Will MD-Kinney supply an electrical control panel? Yes No

Enclosure Type required: NEMA 4 NEMA 7 IEC IP56

Current Process

What type of vacuum pump do you currently have for this process (e.g. Piston, Vane, Liquid Ring, etc.)?

If the current pump has failed, what was the nature of the failure? _____

Additional Remarks: