POWER EQUIPMENT COMPANY
Manufacturer's Representative and Distributor
2011 Williamsburg Road * Richmond, VA 23231
PH 804-236-3800 * FAX 804-236-3882
www.peconet.com sales@peconet.com

High Temperature Fan – RFQ Worksheet

The following is meant to be an aid in determining your fan requirements. This is not meant to be a substitute to having an experienced engineer evaluate your requirements.

1. What is the **desired fan performance**? Do you wish the fan to develop . . .
A. Very high volumes of flow (up to 258,000 CFM) against very low pressures (up to 4"WC).
B. High volumes (up to 200,000 CFM) against low to medium pressures (up to 16" WC).
C. Medium volumes (850 to 45,280 CFM) against low to medium pressures (up to 8" WC).
D. Medium to high volumes (1500 to 20,000 CFM) against very high pressures (up to 62" WC).
E. Low to medium volumes (100 to 45,000 CFM) against high pressures (up to 20" WC on standard units, up to 34" WC on specially designed units).

1A. What is the **cubic volume (CFM)** that the fan is expected to circulate? Some factors which determine this are:
- a. The size (cubic volume) of the heat treat chamber?
- b. How frequently must the gas be changed or circulated?
- c. How quickly and/ or uniformly do you wish to heat or cool the load?

1B. What is the **static pressure (SP)** drop of the system at standard conditions (70°F @ 29.92" HG). The best approach is to keep the pressure drop as small as possible.
Some factors which determine pressure drop are:
- a. Free area for gas flow through the chamber after load is in place.
- b. Length and size of ductwork
- c. Restriction on inlet and outlet of fan.
- d. The number of elbows or air direction changes.

2. Will the internal operating pressure of the chamber be **positive or negative pressure**?
2A. Will the internal operating atmosphere need to be sealed from the outside air?
2B. If a seal is required, how good must the seal be?

3. What is the **gas composition** that the fan will be handling? Will it be corrosive, explosive, toxic, combustible, or a special atmosphere e.g. nitrogen, argon, etc.?
3A. Must the fan be sealed to protect this atmosphere?
3B. If a sealed fan is required, how good must the seal be?

4. What is the **maximum temperature** the fan will be exposed to?
4A. What is the maximum temperature the fan will be rotating?

5. Where is the fan to be **mounted**? (in the roof, side wall, floor, other?)
5A. What are the desired **rotation and discharge** position? (See Fig 33)

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