

Customer wants a COMPLETE NEW VACUUM BOILER FEED UNIT:

A. VACUUM (Air):

1. Capacity of system _____ or total capacity of all boiler[s] _____
2. Motor horsepower of existing vacuum pumps _____
3. CFM rating of existing vacuum pumps _____

Note: *Sizing guidelines:*

- *New installation normally sized at (.5) times Square Ft. EDR divided by 1000.*
 - *If replacing unit on older systems, normally sized at (.7) times Square Ft. EDR divided by 1000. Older systems sized larger to compensate for leakage in steam traps.*
4. Note: **Remember to add 5 PSIG to any condensate or boiler feed pumps discharge pressure to overcome vacuum effect.**

B. CONDENSATE (Water):

1. Required pump flow rate (GPM) _____
 - a. Number of boilers that pump is feeding _____
 - b. Capacity of each boiler[s] being feed _____
 - c. Maximum number of boiler[s] that run at one time _____
2. Pump Discharge Pressure Required _____
 - a. Operating pressure of boiler _____
If more than one pressure, please list all operating pressures _____
 - b. Does pump run continuously? Yes or No _____
If yes, what is the pressure drop through the boiler modulating valve _____
 - c. Does the system have a stack economizer? Yes or No _____
 - d. **What is the boiler Relief Valve Setting?** _____
3. Required pump voltage/motor phase _____ (**MUST be EXACT!**)
Single Phase: 115/1/60 or 208/1/60 or 230/1/60
Three Phase: 208/3/60 or 230/3/60 or 460/3/60 or 575/3/60 or Other _____
4. Required pump speed: 1750 RPM or 3500 RPM _____ (can leave blank)
5. Required motor enclosure: ODP or TEFC or Explosion Proof or Other _____
6. Approximate temperature of returning condensate _____
7. Number of pumps desired _____
8. Does the customer want a Control Circuit Disconnect switch (CCD)? Yes or No _____
9. Does customer need a control panel? Yes or No _____
10. If panel desired, does customer want disconnects Yes or No _____
11. Required panel enclosure: Nema 1, Nema 2, Nema 4, Nema 7, or Nema 12 _____
12. Type of Receiver Material Desired: Cast Iron, Black Steel, Lined Steel, Galvanized steel, Plasite Lined, Stainless Steel _____
13. Does customer want to preheat the water in the unit? Yes or No _____
If yes, to what water temperature _____
14. Inlet height of unit being replaced _____
15. Does customer want unit factory insulated? Yes or No _____
If yes, what style of insulation: metal jacketing or polyurethane foam _____
16. Does customer want close-coupled or flexible-coupled pumps _____
17. Does customer want premium efficient motors? Yes or No _____
If yes, provide efficiency rating _____