

**Customer wants a COMPLETE NEW DEAERATOR:**

1. Required pump flow rate (GPM) \_\_\_\_\_
  - a. Number of boilers pump is feeding \_\_\_\_\_
  - b. Capacity of each boiler[s] being feed \_\_\_\_\_
  - c. Maximum number of boilers that run at one time \_\_\_\_\_ or total capacity of system \_\_\_\_\_
  
2. Required pump discharge pressure \_\_\_\_\_
  - a. Operating pressure of boiler \_\_\_\_\_
  - b. If more than one pressure please list all \_\_\_\_\_
  - c. Does pump run continuously? Yes or No \_\_\_\_\_  
If yes, what is the pressure drop through the boiler modulating valve \_\_\_\_\_
  - d. Does the system have a stack economizer? Yes or No \_\_\_\_\_
  - e. **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 motor speed? 1750 RPM or 3500 RPM \_\_\_\_\_ (can leave blank)
5. Required motor enclosure? ODP or TEFC or Explosion Proof or Other \_\_\_\_\_
6. What is the blend temperature? To calculate, determine percent of makeup water and various condensate return temperatures.  
\_\_\_\_\_ Percent of returns at \_\_\_\_\_ Temperature  
\_\_\_\_\_ Percent of returns at \_\_\_\_\_ Temperature  
\_\_\_\_\_ Percent of returns at \_\_\_\_\_ Temperature  
Note: *Systems with returns should have a surge tank or use a two-compartment deaerator.*
  
7. Number of pumps desired \_\_\_\_\_
8. Does customer want premium efficient motors? Yes or No \_\_\_\_\_  
If yes, provide rating \_\_\_\_\_
  
9. Note: *No suction strainers can be in the suction piping when using centrifugal pumps!*
10. Pressure available at steam regulator on deaerator \_\_\_\_\_  
Note: *higher pressure is better but cannot exceed 125 psig.*  
*If pressure exceeds 125 psig, a pressure-reducing valve must be installed in front of regulator.*
  
11. Does customer want a three-valve bypass around regulator furnished? Yes or No \_\_\_\_\_
12. Does customer want an emergency back-up regulator? Yes or No \_\_\_\_\_
13. Does customer want an emergency back-up make-up valve? Yes or No \_\_\_\_\_
14. Does customer need a control panel? Yes or No \_\_\_\_\_  
If panel needed, does customer want disconnects? Yes or No \_\_\_\_\_
  
15. Required panel enclosure? Nema 1, Nema 2, Nema 4, Nema 7, or Nema 12 \_\_\_\_\_
16. Does customer have air available for Pneumatic controls? Yes or No \_\_\_\_\_

17. Type of deaerator rating desired? .03 or .005\_\_\_\_\_
- a. If .005 rating, does customer want an atmospheric or pressurized unit? Yes or No\_\_\_\_\_
  - b. Are gravity returns present? Yes or No\_\_\_\_\_
- Note: *If gravity returns present, the deaerator must be an atmospheric style unit since gravity returns will not flow into a pressurized deaerator.*
- c. If gravity returns present, what is the inlet height of gravity returns\_\_\_\_\_ (**Must Know!**)
18. Does customer want a single compartment unit? Yes or No\_\_\_\_\_
- Note: *Systems with over 20 % returns should have a surge tank or two-compartment unit.*
- a. If **yes**, does customer have an existing surge tank? Yes or No\_\_\_\_\_
  - b. If **no**, does customer want a two-compartment unit or a separate surge tank? Yes or No\_\_\_\_\_
  - c. What type of material do you want surge tank or two-compartment unit made out of? Plaste Lined , Black Steel, Cast Iron, or Stainless Steel\_\_\_\_\_
  - d. Will surge tank sit on the floor or be elevated?\_\_\_\_\_
19. Does customer want unit factory insulated? Yes or No\_\_\_\_\_
- If yes, what style of insulation? metal jacketing or polyurethane foam\_\_\_\_\_
20. Does customer want pumps close-coupled or flexible-coupled? \_\_\_\_\_
21. Does customer have an overall height or length restriction? Yes or No\_\_\_\_\_
- If yes, provide height and/or length dimensions\_\_\_\_\_
22. Does customer want premium efficient motors? Yes or No\_\_\_\_\_
- If yes, provide efficiency rating \_\_\_\_\_