

Deaerator Specification (Fill in all known information)

Description _____ Spec # _____ Quantity _____	Date _____ Customer _____ Project # _____
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Operating Conditions: pph = pounds per hour

Operating Pressure	psig	_____
Operating Temperature	°F	_____
Feedwater Capacity	pph	_____
Make-Up Water Flow Rate	pph	_____
Make-Up Water Temperature	°F	_____
Condensate Return Maximum Flow Rate	pph	_____
Condensate Return Minimum Flow Rate	pph	_____
Condensate Return Minimum Temperature	°F	_____
Steam Flow Rate	pph	_____
Vent Flow Rate	pph	_____
Guaranteed Maximum Allowable Oxygen Level	cc/l	_____
Guaranteed Maximum Allowable CO ₂ Level	ppm	_____
Deaerator Turndown	ratio	_____
Source Steam Pressure	psig	_____
Source Steam Temperature	°F	_____
Manufactured in Accordance with HEI Standards (yes/no)		_____
Shop Hydro Performed (yes/no)		_____

Construction:

Manufacturer		_____
Model Number		_____
Type		_____
Design Pressure	psig	_____
Design Temperature	°F	_____
Minimum Design Metal Temperature	°F	_____
Corrosion Allowance	in.	_____
Heating and Storage Tank Material		_____
Heater Shell Thickness	in.	_____
Heater Head Thickness	in.	_____
Storage Tank Shell Thickness	in.	_____
Storage Tank Head Thickness	in.	_____
Storage Tank Diameter	ft.	_____
Storage Tank Length Over Heads	ft.	_____
Deaerator Overall Height	ft.	_____
Volume of Water at Operating Level	gal or minutes	_____
Volume Total	gal or minutes	_____
Tray Material		_____
Number of Tray Channels		_____
Number of Tray Assemblies		_____
Area of Tray Compartment	ft ²	_____

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Weight Information:

Operating Weight	lbs	
Hydro Weight	lbs	
Shipping Weight	lbs	

Nozzle Connection Schedule:

	Qty	Size (in)	Type
Steam Inlet			
Water Inlet			
High Pressure Condensate Return			
Low Pressure Condensate Return			
Overflow Outlet			
Pump Suction			
Recirculation			
Chemical Inlet			
Vacuum Breaker			
Pressure Gauge			
Thermometer			
Level Connections			
Drain			
Vent			
Sample			
Manways			

Notes:

CO2 level will be tested using the Apha Method.

Storage capacity will be ___ minutes below normal operating level at 100% MCR.

Unit shall incorporate features deemed necessary to ensure operation without undue noise, rumble or hammer.

All trim will be supplied by others.

Supply two sets of manway gaskets for each manway.

The tray enclosure, vent condenser, liner, and waterbox shall be stainless steel.

The safety relief valve will be mounted in the inlet steam line to the deaerator (by others).

All baffling and parts in contact with concentrated, noncondensable gases shall be constructed of stainless steel.

Deaerator will be provided with support saddles.

The heater and storage tank shall be manufactured and stamped per ASME Code, Section VIII, Division I.

Internal surface prep will be SSPC-SP6 commercial blast. External surface prep will be SSPC-SP6 commercial blast with one coat of 3 mil high temperature primer.

All connections 2½" and larger will be RF flanged.