

7822 Conser Place | Overland Park, KS 66204 | 888-381-5581 | USDeaerator.com | Fax: 913-381-8648 U.S. Deaerator Company. For all your deaerator, boiler feed, condensate, and water heating equipment needs.

US DEAERATOR APPLICATION DATA FORM

PROVIDING YOUR SYSTEM INFORMATION WILL ALLOW US TO PROPERLY SIZE AND SELECT YOUR NEW US DEAERATOR FOR OPTIMUM PERFORMANCE AND A LONG SERVICE LIFE.

Please fill in as completely as possible

1.	. Deaerator outlet capacity in pounds per hour equals your boiler system combined peak		
	steam output #/hr. If not known, please advise horsepower ratings		
	of boilers, maximum number of boilers used at once and their respective firing rate percent		
2	Boiler operating pressure PSIG.		
	Desired deaerator corrosion allowance inch. A minimum of 1/16" is recommended.		
4.	Deaerator design temperature deg F. Normal design temperature is 450 degree F		
5.	Desired deaerator operating pressure PSIG. Normal operating pressure is 5-10 PSIG.		
6.	Percent of system condensate return % @ degree F.		
7.	Pressure & temperature of softened makeup water PSIG @ degree F.		
8.	Makeup water: city water source or other source If other, please explain		
	·		
	If city water, please advise municipal water source so we can obtain water analysis		

	A. Does condensate return directly to the deaerator?		
B. Is condensate collected in a condensate receiver along with softened makeup			
	then pumped to the deaerator? If so, what is the transfer pressure of that		
	condensate/makeup going to the deaerator?		
10.	Configuration:		
	A. All vertical tank with vertical storage		
	B. Vertical deaerating section welded to horizontal storage tank		
	C. Vertical deaerating section flange mounted to horizontal storage tank		
	D. Horizontal deaerating section flange mounted to horizontal storage tank		
11.	Storage volume desired to ¾ tank level:		
	A. Two minute storage is standard on all vertical units		
	B. Ten minute storage is standard on all horizontal storage tanks		
	C. Greater storage volume is available for either configuration, please specify		
12. Available space for deaerator:			
	A. Please specify length, width and height of the intended area for new deaerator		
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13.	Control accessories to be included with deaerator:		
	A. Steam safety valve: Please specify the fail open capacity of your steam pressure		
	regulating device that admits steam to the deaerator PPH. If not known,		
	please provide the nameplate information from that regulating device along with the		
	upstream steam pressure PSIG.		
	Is that saturated steam or superheated steam coming to your regulating valve?		

9. Manner of control:

the valve as needed	PSIG.	
Advise your preference for	steam pressure regulation as follows:	
1. Self-contained steam pre	essure regulator	0
2. Pneumatic actuated stea	m pressure control valve	_ or
3. Electric actuated steam p	pressure control valve	•
C. Inlet water control valve:	Please specify the upstream pressure of your inlet water	
coming to the deaerator	PSIG.	
Advise your preference for	inlet water regulation as follows:	
1. Pneumatic actuated inlet	t water control valve	or
2. Electric actuated inlet wa	ater control valve	
D. Overflow valve: Advise you	ur preference for overflow control as follows.	
1. Self-contained float ope	rated overflow trap	_ or
2. Pneumatic actuated valv	ve and float switch	_ or
	nd float switch	
E. Water level indicator: Adv	rise your preference for water level as follows.	
1. Tubular sight glass and g	gage valves	·
2. Magnetic flag type indicate	ator	·
F. Boiler feed pumps:		
1. Two 100% capacity pum	ps	·
2. One light load pump and	two 100% capacity pumps	•
G. Standard accessories:		
1. Always include two the	rmometers and one steam pressure gauge.	
2. Always include a vacuur	m breaker valve.	
2 Always include high love	el, low level and pump cutoff float switches.	

H. Control	panel	:
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1. Always include at minimum NEMA 12 enclosure with main disconnect, magnetic starters, adjustable overloads, HOA switches, run lights, CPT, alarm horn and silence button.

14.	Special	consid	lerations:

A. Full vacuum vessel design
B. Post weld heat treatment
C. Mag particle, radiography or and other special testing