

# **BRYAN STEAM**

## Separable Tank Tray Type Boiler Feedwater Deaerators Capacities 70,000 to 300,000 PPH (2030 to 8695 BHP)



175,000 PPH  
unit shown

The Bryan tray type deaerator is unsurpassed in performance and reliability. These units are ASME Code pressurized units, and are guaranteed to deliver deaerated water at a maximum oxygen content of .005cc/l (7PPB) and zero measurable CO<sub>2</sub>. All internal surfaces that come in contact with undeaerated water are constructed of type 304L stainless steel for long life and low maintenance. Their long residence time makes them readily adaptable to all systems, even where wide load swings occur.

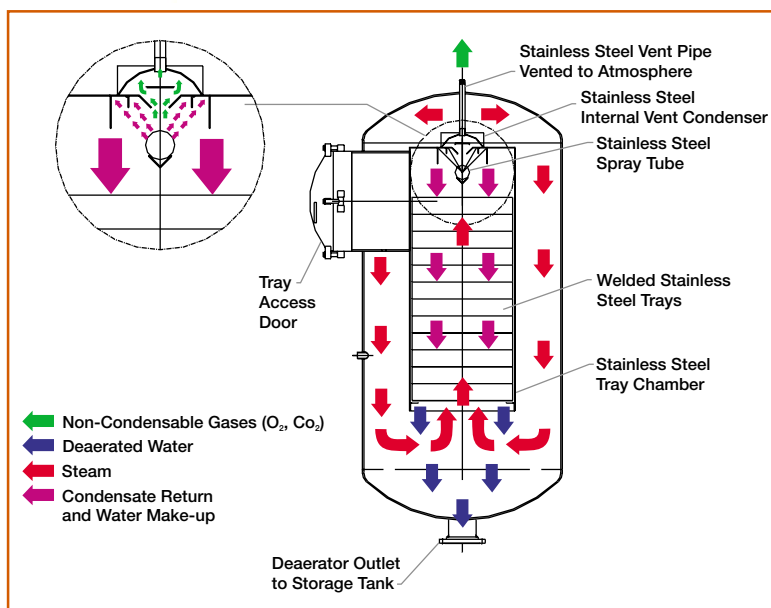
A complete line of boiler feedpump and control packages is available making the Bryan tray deaerator a completely packaged unit ready for installation with the minimum amount of field assembly.

### Performance Features

- Oxygen removal to .005 cc/l (7 PPB)
- CO<sub>2</sub> removal to 0% measurable
- Reduce chemical costs
- Reduce boiler and system corrosion
- Pre-heat boiler feedwater
- Improve boiler efficiency
- Quick equipment payback, compared to chemical oxygen removal

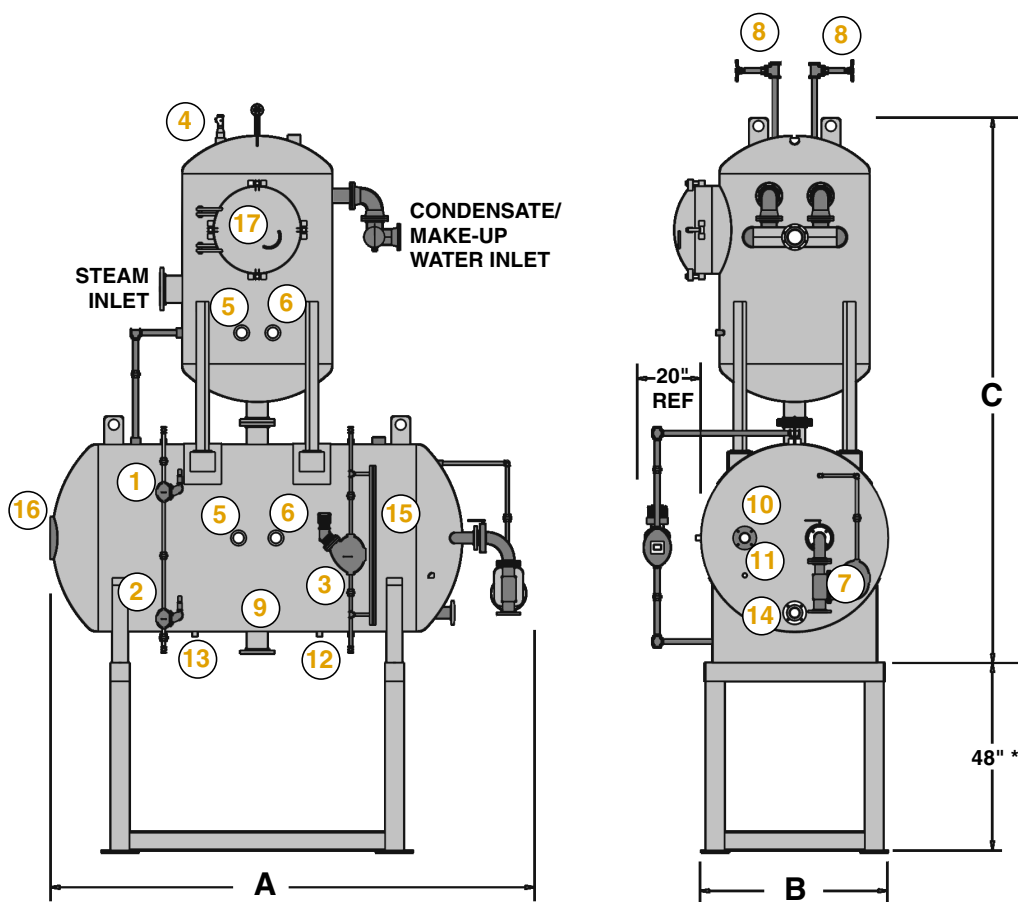
### Construction Features

- Constructed to ASME Section VIII, Division I for 50 PSIG
- Hinged tray access door
- Standard 10 minutes deaerated water storage
- Easily accessible manway in storage tank
- All internal surfaces that contact undeaerated water are constructed of type 304L stainless steel
- Internal direct contact vent condenser for minimum steam loss
- Structural steel stand/pump platform
- 2-stage deaeration
- Available as completely packaged unit including pumps and control panel



# Bryan Separable Tank Tray Type Deaerators

1. High water level control
2. Low water level control
3. Make-up water control
4. Vacuum breaker
5. Temperature gauge
6. Pressure gauge
7. Overflow trap
8. Vent
9. Pump suction
10. Pump bypass
11. Chemical port
12. Drain
13. Sample port
14. High temperature condensate return
15. Gauge glass
16. Manway access opening
17. Tray access door



\*Note: Stand height varies depending upon pump specifications and job conditions.  
Dimensions are for reference only and may change without notice. Consult factory for certified dimensions.

## Specifications

Model	Capacity			Dimensions in inches (cm)		
	Pounds/hr (kg/h)	Boiler hp (kW)	Storage in gallons (liters)	A Overall length	B Overall width	C* Overall height
DTA-70	70,000 (31,752)	2,029 (19,911)	1,400 (5,299)	176 (447)	60 (152)	180 (457)
DTA-80	80,000 (36,288)	2,319 (22,756)	1,600 (6,056)	194 (493)	60 (152)	184 (467)
DTA-90	90,000 (40,824)	2,609 (25,600)	1,800 (6,813)	190 (483)	66 (168)	173 (439)
DTA-100	100,000 (45,360)	2,899 (28,445)	2,000 (7,570)	200 (508)	66 (168)	177 (450)
DTA-125	125,000 (56,700)	3,623 (36,556)	2,500 (9,463)	187 (475)	72 (183)	203 (516)
DTA-150	150,000 (68,040)	4,348 (42,667)	3,000 (11,355)	217 (551)	72 (183)	207 (526)
DTA-175	175,000 (79,380)	5,072 (49,779)	3,500 (13,248)	247 (627)	72 (183)	211 (536)
DTA-200	200,000 (90,720)	5,797 (56,890)	4,000 (15,140)	228 (579)	84 (213)	220 (559)
DTA-250	250,000 (113,400)	7,246 (71,112)	5,000 (18,925)	274 (696)	84 (213)	239 (607)
DTA-300	300,000 (136,080)	8,695 (85,335)	6,000 (22,710)	249 (632)	96 (244)	244 (622)

\* Not including the stand.



The tray assemblies in the Bryan tray deaerators are constructed of type 304L stainless steel. Trays are welded construction and are engineered to offer maximum residence time. This ensures complete deaeration even during wide load swings.



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