

BRYAN STEAM

Spray Type Boiler Feedwater Deaerators **Capacities 5,000 to 60,000 PPH (145 to 1740 BHP)**



15,000 PPH unit shown

Performance Features

- Oxygen removal to .005 cc/l (7 PPB)
- CO₂ removal to 0% measurable
- Reduce chemical costs
- Reduce boiler and system corrosion
- Improve boiler efficiency
- Pre-heat boiler feedwater
- Quick equipment payback, compared to chemical oxygen removal

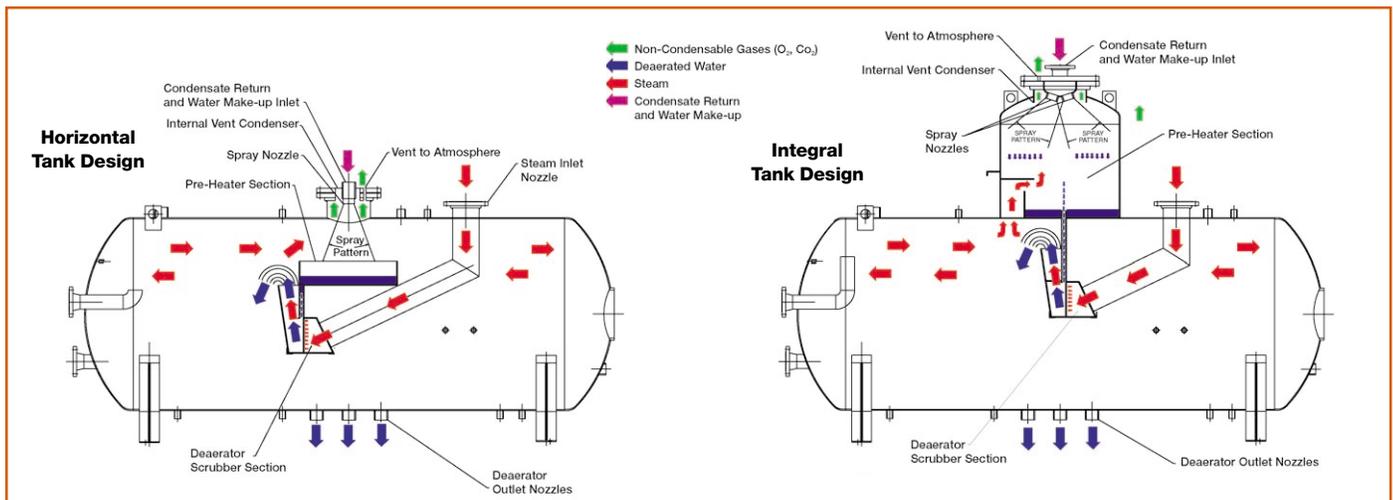
Construction Features

- Constructed to ASME Section VIII, Division I for 50 PSIG
- Easily accessible manway
- Standard 10 minutes deaerated water storage
- Internal vent condenser for minimum steam loss
- Self-adjusting spring-loaded stainless steel spray valve
- Structural steel stand/pump platform
- 2-stage deaeration
- Available as completely packaged unit including pumps and control panel

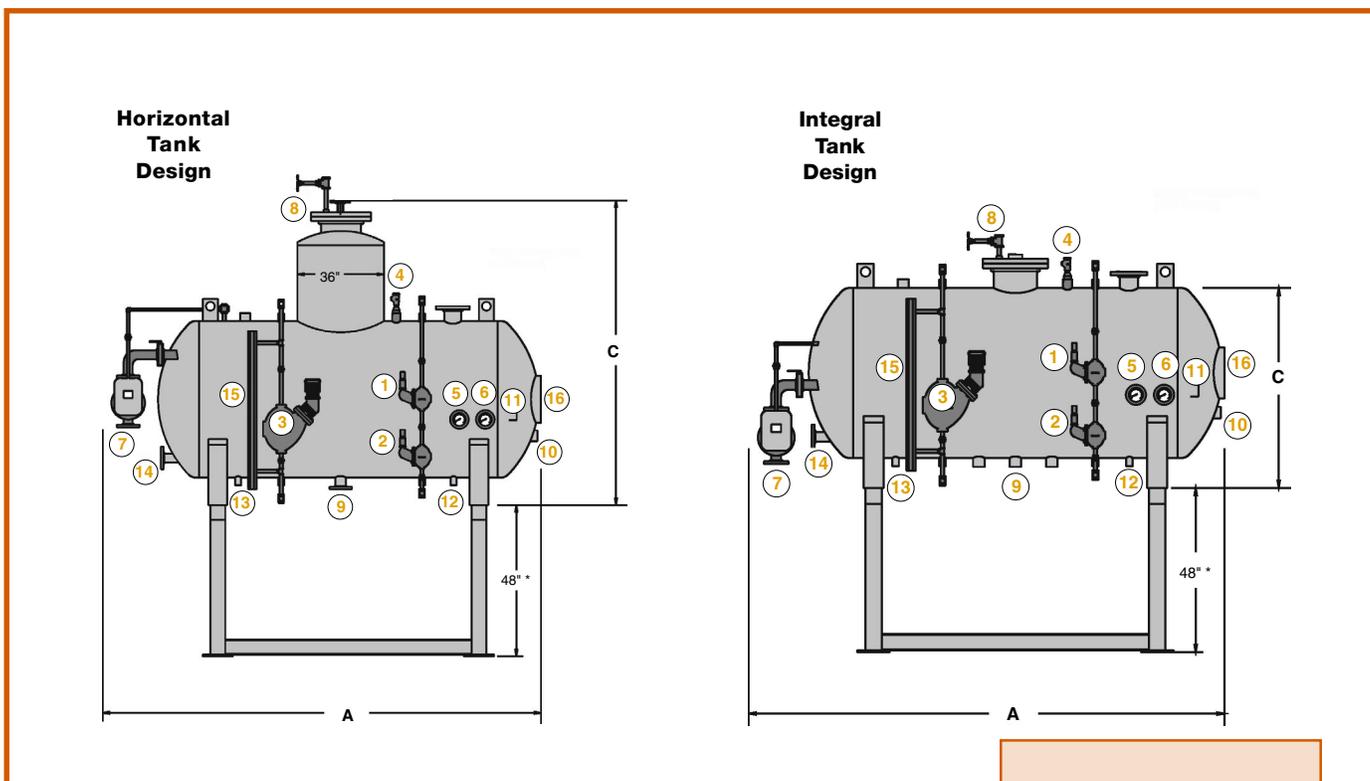
The Bryan spray type deaerator is rated for oxygen removal to .005cc/l (7 PPB) and CO₂ to zero measurable across its entire operating range. With its all stainless steel spring loaded spray valve and second stage steam scrubber, the spray type deaerator is a

good choice for all deaerator applications.

Units are available with a complete range of boiler feedpumps and control options making them a total deaerator package with minimal amount of field assembly.



Bryan Spray Type Deaerators — Horizontal and Integral



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

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
Horizontal Tank Design						
DSH-5	5,000 (2,268)	145 (1,422)	200 (757)	124 (315)	36 (91)	52 (132)
DSH-10	10,000 (4,536)	290 (2,844)	200 (757)	124 (315)	36 (91)	52 (132)
DSH-15	15,000 (6,804)	435 (4,267)	300 (1,136)	117 (297)	42 (107)	60 (152)
DSH-20	20,000 (9,072)	580 (5,689)	400 (1,514)	120 (305)	48 (122)	64 (163)
DSH-25	25,000 (11,340)	725 (7,111)	500 (1,893)	137 (348)	48 (122)	64 (163)
DSH-30	30,000 (13,608)	870 (8,533)	600 (2,271)	156 (396)	48 (122)	64 (163)
Integral Tank Design						
DST-35	35,000 (15,876)	1,014 (9,956)	700 (2,650)	143 (363)	48 (122)	104 (264)
DST-40	40,000 (18,144)	1,159 (11,378)	800 (3,028)	156 (396)	48 (122)	104 (264)
DST-45	45,000 (20,412)	1,304 (12,800)	900 (3,407)	141 (358)	54 (137)	110 (279)
DST-50	50,000 (22,680)	1,449 (14,222)	1,000 (3,785)	171 (434)	60 (152)	120 (305)
DST-60	60,000 (27,216)	1,739 (17,067)	1,200 (4,542)	177 (450)	60 (152)	120 (305)

* Not including the stand.



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