

BRYAN STEAM

Low Profile Vertical Tray Type Boiler Feedwater Deaerators **Capacities 5,000 to 60,000 PPH (145 to 1740 BHP)**

Low vessel height made possible by the innovative "Low NPSH" regenerative turbine pump which operates with 1' available NPSH across its entire curve



5,000 PPH unit shown

Performance Features

- Oxygen removal to .005 cc/l (7 PPB)
- CO₂ removal to 0% measurable
- Reduce chemical costs
- Fast equipment payback
- Reduce system corrosion
- Improve boiler efficiency

Construction Features

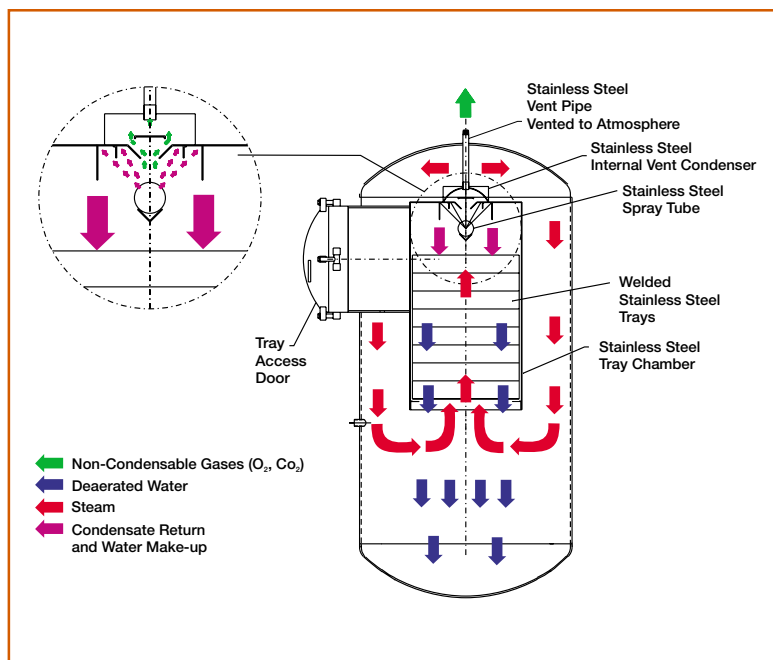
- Constructed to ASME Section VIII, Division I for 50 PSIG
- Completely packaged with pumps and controls
- Standard 10 minutes deaerated water storage
- All internal surfaces that contact undeaerated water are constructed of type 304L stainless steel
- Internal direct contact vent condenser for minimum steam loss
- 2-stage deaeration

The Bryan "Low Profile" tray type deaerator is the industry leader in compact, space saving design. This series packs all of the same high performance design features as other Bryan tray type deaerators. The combination of the Bryan tray type deaerator and the industry's first true 1' NPSH pump has resulted in a true space saving unit.

The overall height saved is unparalleled.

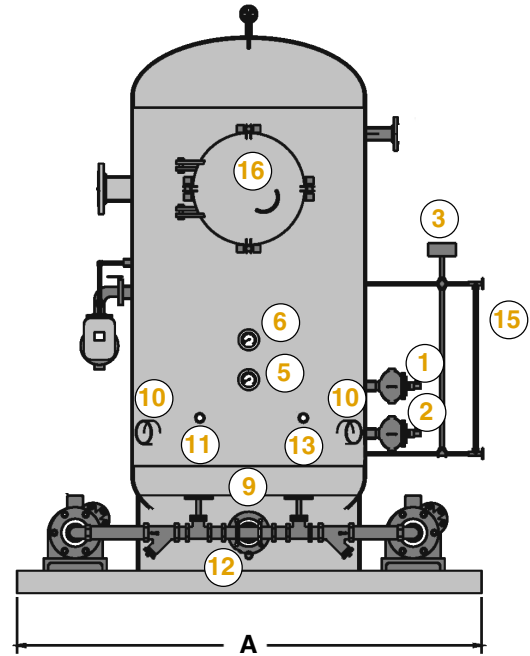
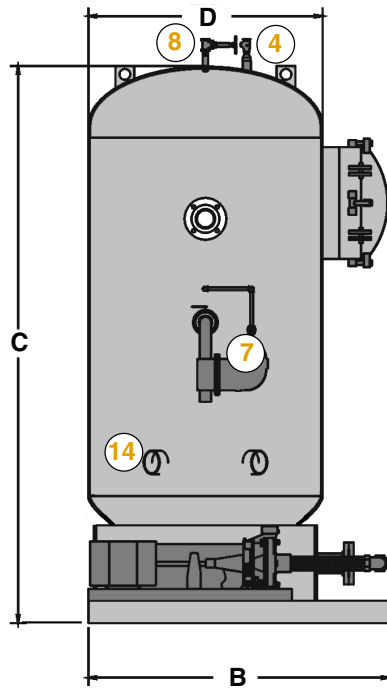
All internal surfaces that come in contact with undeaerated water are constructed of type 304L stainless steel for long life and low maintenance. Tray assemblies are of welded construction and are also made of type 304L stainless steel.

Units are available with either simplex or duplex pumps, and a complete range of control options making this a total deaerator package for ease of installation.



Bryan Low Profile Vertical 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. Tray access door



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	D Tank diameter
LDTV-5	5,000 (2,268)	145 (1,422)	100 (378)	66 (168)	54 (137)	86 (218)	42 (107)
LDTV-10	10,000 (4,536)	290 (2,844)	200 (757)	66 (168)	54 (137)	103 (262)	42 (107)
LDTV-15	15,000 (6,804)	435 (4,267)	300 (1,136)	66 (168)	54 (137)	120 (305)	42 (107)
LDTV-20	20,000 (9,072)	580 (5,689)	400 (1,514)	84 (213)	72 (183)	108 (274)	60 (152)
LDTV-25	25,000 (11,340)	725 (7,111)	500 (1,893)	84 (213)	72 (183)	116 (295)	60 (152)
LDTV-30	30,000 (13,608)	870 (8,533)	600 (2,271)	84(213)	72 (183)	124 (315)	60 (152)
LDTV-35	35,000 (15,876)	1,014 (9,956)	700 (2,650)	96 (244)	84 (213)	125 (318)	72 (183)
LDTV-40	40,000 (18,144)	1,159 (11,378)	800 (3,028)	96 (244)	84 (213)	131 (333)	72 (183)
LDTV-45	45,000 (20,412)	1,304 (12,800)	900 (3,407)	96 (244)	84 (213)	141 (358)	72 (183)
LDTV-50	50,000 (22,680)	1,449 (14,222)	1,000 (3,785)	96 (244)	84 (213)	147 (373)	72 (183)
LDTV-60	60,000 (27,216)	1,739 (17,067)	1,200 (4,542)	96 (244)	84 (213)	157 (399)	72 (183)



All tray assemblies in the Bryan tray deaerator are constructed of type 304L stainless steel. Bryan selects the most superior materials for all its deaerator applications.



Bryan Steam — Leaders Since 1916

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