



Tray Type **DEAERATOR**

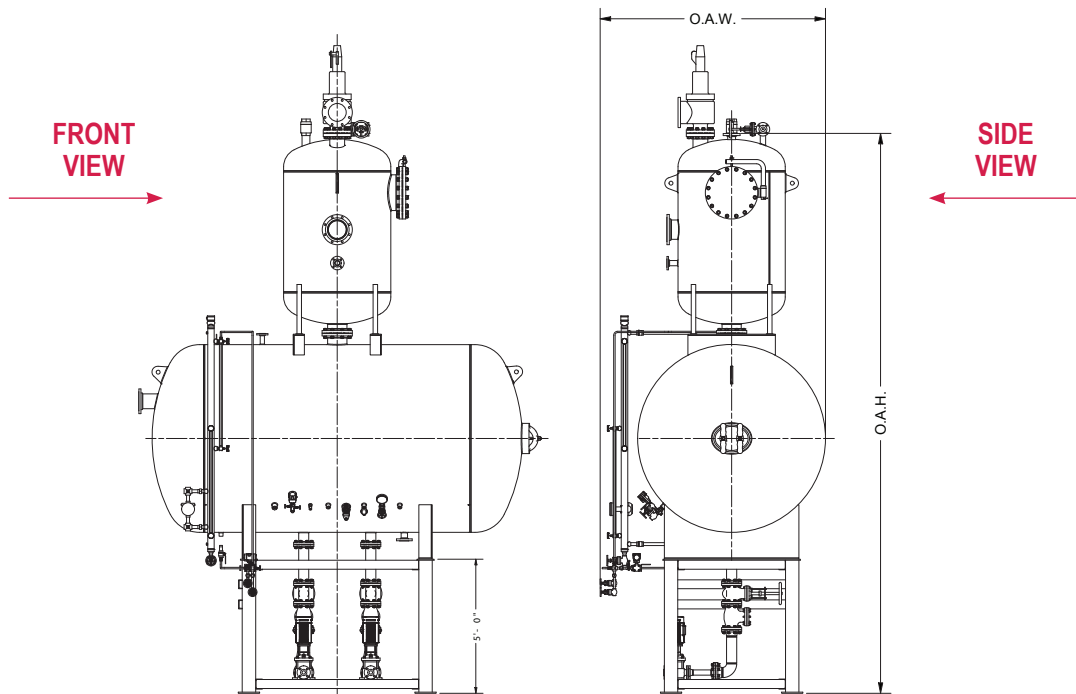
Applied Heat Recovery specializes in customized heat recovery solutions intended to reduce operating costs and carbon footprint. With unmatched service and expertise our proven designs will meet or exceed expectations every time.

210-587-7656

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29580 Ralph Fair Road
Fair Oaks Ranch, TX 78015

Standard Sizes



MODEL NUMBER	RATED CAPACITY	TOP TANK SIZE DIA. x LENGTH [INCH]	STORAGE TANK SIZE DIA. x LENGTH [INCH]	STORAGE CAPACITY		APPROX. OVERALL DIMENSIONS (IN)			APPROX WEIGHT [LBS]	
				GAL	MIN.	O.A.L.	O.A.H.	O.A.W.	SHIPPING	OPERATING
500-T-003.5	3,500	28 x 44	24 x 48	75	10.7	77 7/8	162 9/16	48 5/8	2,150	2,800
500-T-005	5,000	28 x 44	24 x 60	100	10	90 1/8	162 9/16	48 5/8	2,225	3,080
500-T-007	7,000	28 x 44	24 x 84	140	10	114 1/8	162 9/16	48 5/8	2,350	3,525
500-T-009	9,000	28 x 44	30 x 66	185	10.3	101 1/8	168 1/2	51 5/8	2,470	4,050
500-T-011	11,000	28 x 44	30 x 72	220	10	107 1/8	168 1/2	51 5/8	2,500	4,340
500-T-014	14,000	28 x 44	36 x 72	290	10.4	110 1/8	175 7/8	54 5/8	2,750	5,200
500-T-018	18,000	28 x 44	36 x 84	360	10	122 1/8	175 7/8	54 5/8	2,850	5,900
500-T-021	21,000	28 x 44	36 x 96	420	10	134 1/8	175 7/8	54 5/8	3,050	6,550
500-T-024	24,000	28 x 44	42 x 84	500	10.4	124 7/8	181 7/8	58 3/4	3,160	7,375
500-T-030	30,000	36 x 48	42 x 96	600	10	137 3/8	191 3/8	58 3/4	3,750	8,600
500-T-035	35,000	36 x 48	48 x 84	700	10	128 1/8	197 1/2	64 3/4	3,910	9,810
500-T-040	40,000	36 x 48	48 x 96	800	10	139 7/8	197 1/2	64 3/4	4,120	10,850
500-T-050	50,000	42 x 48	60 x 72	1,000	10	122 3/8	212 3/8	76 3/4	4,690	12,960
500-T-060	60,000	42 x 48	60 x 96	1,200	10	146 3/8	212 3/8	76 3/4	5,000	15,000
500-T-070	70,000	42 x 48	60 x 108	1,400	10	158 3/8	212 3/8	76 3/4	5,170	16,140
500-T-080	80,000	48 x 54	72 x 84	1,600	10	140 1/2	234 1/2	88 3/4	6,070	19,410
500-T-090	90,000	48 x 54	72 x 96	1,800	10	146 1/2	234 1/2	88 3/4	6,260	21,280
500-T-100	100,000	60 x 48	72 x 119	2,000	10	175 1/2	234 5/8	88 3/4	7,300	24,150
500-T-110	110,000	60 x 48	72 x 132	2,200	10	188 1/2	234 5/8	88 3/4	7,420	25,870
500-T-125	125,000	60 x 48	84 x 96	2,500	10	158 1/2	248 5/8	101 7/8	7,865	28,645
500-T-150	150,000	60 x 48	84 x 119	3,000	10	181 3/4	248 5/8	101 7/8	8,470	33,500
500-T-175	175,000	72 x 48	84 x 132	3,500	10	194 3/4	255 7/8	101 7/8	9,480	38,740
500-T-200	200,000	72 x 48	96 x 119	4,000	10	187 3/4	266 7/8	113 7/8	9,990	43,300
500-T-225	225,000	84 x 48	96 x 132	4,500	10	200 3/4	276	113 7/8	11,390	49,100
500-T-250	250,000	84 x 48	96 x 144	5,000	10	212 1/2	276	113 7/8	11,650	53,430
500-T-300	300,000	96 x 48	96 x 180	6,000	10	248 3/4	281 1/2	119 3/4	13,360	63,680
500-T-350	350,000	96 x 48	102 x 192	7,000	10	263 3/4	286 3/8	122 3/4	14,470	72,770
500-T-400	400,000	96 x 48	108 x 192	8,000	10	266 7/8	295 1/2	128 3/4	15,175	81,815
500-T-450	450,000	120 x 48	120 x 168	9,000	10	248 7/8	320	138 3/4	17,720	92,770
500-T-500	500,000	120 x 48	120 x 192	10,000	10	272 7/8	320	138 3/4	18,500	101,960

*Applied Heat Recovery is the most reliable source
for effective equipment at the best price.*

Features & Benefits

Principle of Operation

- Removes dissolved oxygen and non-condensable gases from boiler feedwater using direct steam contact.
- Removes dissolved oxygen to as low as 0.005 cc/liter (≈ 7 ppb) per ABMA testing procedures.
- Incoming water is distributed across multiple trays, forming thin flowing layers for efficient heating.
- Steam rises through the tray stack, heating the water to near saturation temperature and releasing dissolved gases.
- Counterflow contact between rising steam and cascading water provides thorough gas removal.
- Released gases are separated and vented from the system.
- Deaerated water collects in the storage section for boiler use.
- Continuous steam blanket ensures stable performance across varying load conditions.

WHY CHOOSE A SPRAY TYPE DEAERATOR?

- Ideal for systems with varying load and operating ranges
- Stable operation under changing demand and provides maximum contact time for highly reliable oxygen removal
- Well suited for systems with moderate to high condensate return rates



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Build a **Smarter, More Efficient** Boiler System

Pair your Deaerator with these Applied Heat Recovery Components:

- Surge/Condensate tank packages
- Spool pieces & piping assemblies
- Separate pump skids
- PLC based control system
- Chemical feed and softener packages
- Feedwater economizer
- Makeup water secondary economizer
- Condensing economizer
- Breaching/transitions/expansion joints & stacks
- Access platforms

