



Spray Type **DEAERATOR**

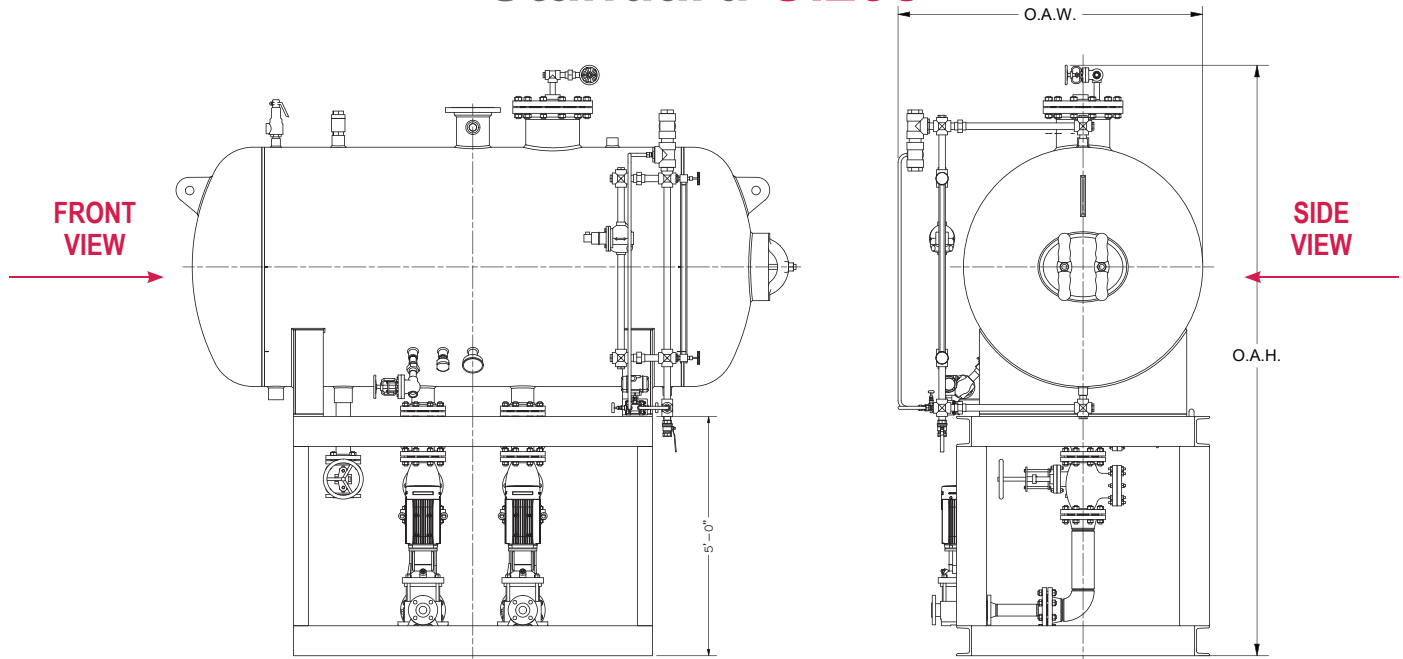
Applied Heat Recovery specializes in customized heat recovery solutions intended to reduce operating costs and carbon footprint. With unmatched service and expertise our proven designs will meet or exceed expectations every time.

210-587-7656

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29580 Ralph Fair Road
Fair Oaks Ranch, TX 78015

Standard Sizes



MODEL NUMBER	RATED CAPACITY [LBS/HR]	TANK SIZE DIA. x LENGTH [INCH]	STORAGE CAPACITY [GAL.]	STORAGE CAPACITY [MIN]	APPROX. OVERALL DIMENSIONS (IN)			APPROX WEIGHT, [LBS]	
					O.A.L.	O.A.H.	O.A.W.	SHIPPING	OPERATING
500-S-003.5	3,500	36 x 60	157	22.4	93 3/16	98 1/2	48 15/16	1,780	3,100
500-S-005	5,000	36 x 60	157	15.7	93 3/16	98 1/2	48 15/16	1,780	3,100
500-S-007	7,000	36 x 60	157	11.2	93 3/16	98 1/2	48 15/16	1,780	3,100
500-S-009	9,000	36 x 72	182	10.1	104 3/4	98 1/2	48 15/16	1,935	3,445
500-S-011	11,000	36 x 96	230	10.5	128 3/4	98 1/2	48 15/16	2,250	4,175
500-S-014	14,000	48 x 72	459	16.4	112 3/8	130 1/2	62 1/2	2,750	6,600
500-S-018	18,000	48 x 72	459	12.8	112 3/8	130 1/2	62 1/2	2,750	6,600
500-S-021	21,000	48 x 72	459	10.9	112 3/8	130 1/2	62 1/2	2,750	6,600
500-S-024	24,000	48 x 84	520	10.8	124 3/8	130 1/2	62 1/2	2,975	7,300
500-S-030	30,000	48 x 120	696	11.6	160 3/8	130 1/2	62 1/2	3,525	9,325
500-S-040	40,000	60 x 72	863	10.8	117 3/16	146 1/16	73	3,750	10,950
500-S-050	50,000	60 x 96	1,076	11	141 3/16	146 1/16	73	4,225	13,200
500-S-060	60,000	60 x 120	1,290	11	165 3/16	146 1/16	73	4,700	15,450
500-S-070	70,000	72 x 84	1,572	11	134	162 1/16	83 1/2	5,125	18,225
500-S-080	80,000	72 x 96	1,737	11	146	162 1/16	83 1/2	5,400	19,875
500-S-090	90,000	72 x 120	2,070	12	170	162 1/16	83 1/2	5,975	23,225
500-S-100	100,000	72 x 120	2,070	10	170	162 1/16	83 1/2	5,975	23,225
500-S-110	110,000	72 x 144	2,402	11	194	162	83 1/2	6,550	26,550
500-S-125	125,000	84 x 120	3,047	12	175 1/8	176 1/4	97 1/8	7,575	33,000
500-S-150	150,000	84 x 144	3,525	12	199 1/8	176 1/4	97 1/8	8,225	37,600
500-S-175	175,000	84 x 156	3,760	11	211 1/8	176 1/4	97 1/8	8,550	39,875
500-S-200	200,000	84 x 192	4,475	11	247 1/8	176 1/4	97 1/8	9,550	46,850
500-S-225	225,000	96 x 144	4,875	11	205 1/8	189 5/8	106 5/16	9,685	50,310
500-S-250	250,000	96 x 168	5,518	11	229 1/8	189 5/8	106 5/16	10,450	56,450
500-S-300	300,000	96 x 192	6,162	10	253 1/8	189 5/8	106 5/16	11,200	62,600
500-S-350	350,000	102 x 192	7,114	10	256 1/8	195 5/8	109 5/16	11,975	71,250
500-S-400	400,000	108 x 192	8,140	10.2	259 1/8	201 5/8	115 5/16	12,750	80,600
500-S-450	450,000	120 x 168	9,372	10.4	241 9/16	213 5/8	133 5/16	13,450	91,550
500-S-500	500,000	120 x 192	10,423	10.4	262 9/16	213 5/8	133 5/16	14,400	101,250

*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.
- Spray valves break incoming water into fine droplets for rapid heating.
- Water heats to near saturation temperature, releasing dissolved gases.
- Released gases are vented from the system.
- High-velocity steam scrubs the water to remove remaining oxygen and CO_2 .
- Deaerated water collects in the storage section for boiler use.
- Continuous steam blanket maintains performance under changing loads.

WHY CHOOSE A SPRAY TYPE DEAERATOR?

- Ideal for steady state condensate return rates upwards of 85% or 100% makeup water
- Most cost-effective deaerator system
- Most compact overall package

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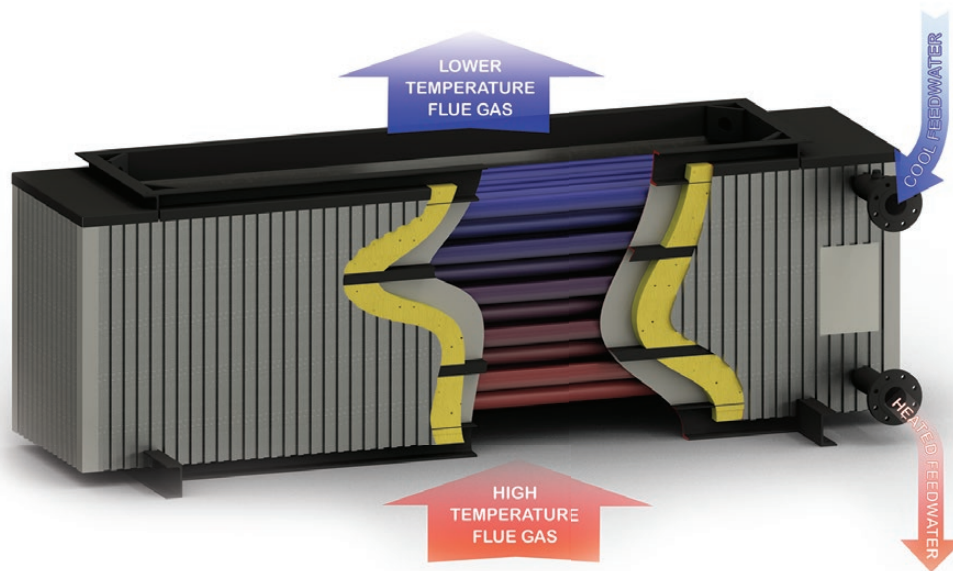
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Build a **Smarter, More Efficient** Boiler System

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



**Applied Heat
Recovery**