



**Specialists in  
Boiler Feedwater  
Equipment**

# P5

**.005 cc/liter  
Pressurized Deaerators**

## Atlantic Feedwater Systems

offers a complete line of packaged deaerators ranging in size from 3,400 lbs/hr to 100,000 lbs/hr. The systems conform to firetube and commercial watertube sizes and provide guaranteed performance of .005 cc/liter per ABMA testing procedures. Package systems from AFS insures you have all components necessary for operation. For more information please contact us today by calling: 712-243-5871.

## FEATURES

- Unique spray scrubber design guarantees removal of all d in excess of .005 cc/liter (7 ppb).
- Electronic instrumentation for modulating level control incl compatible differential pressure transmitter, PID controller, control valve.
- Vertical or horizontal vessels provide maximum flexibility u minimum footprint.
- Complete range of sizes
- Only stainless steel components come in contact with undeaerated water. Spray nozzle, scrubbing section and internal vent condenser are all stainless steel.
- A.S.M.E. Code and National Board stamped receivers - 50 psi standard vessel options include stress relieving, non-destructive testing and full vacuum.
- Custom engineered packaged system includes boiler feedwater pumps and quality components to insure reliable service.

## PERFORMANCE

The P5 deaerator provides excellent performance utilizing the high velocity incoming steam to atomize makeup water and pumped returns. Stainless steel internal components provide reliable performance for many years. This superior spray-type design directs the cleanest incoming steam to scrub out the last traces of oxygen from the partially deaerated water. Guaranteed performance .005 cc/liter per ABMA testing procedures.



**Packaged "P5" Deaerator with Panel, Pumps & Factory Piped Make-up Assembly**

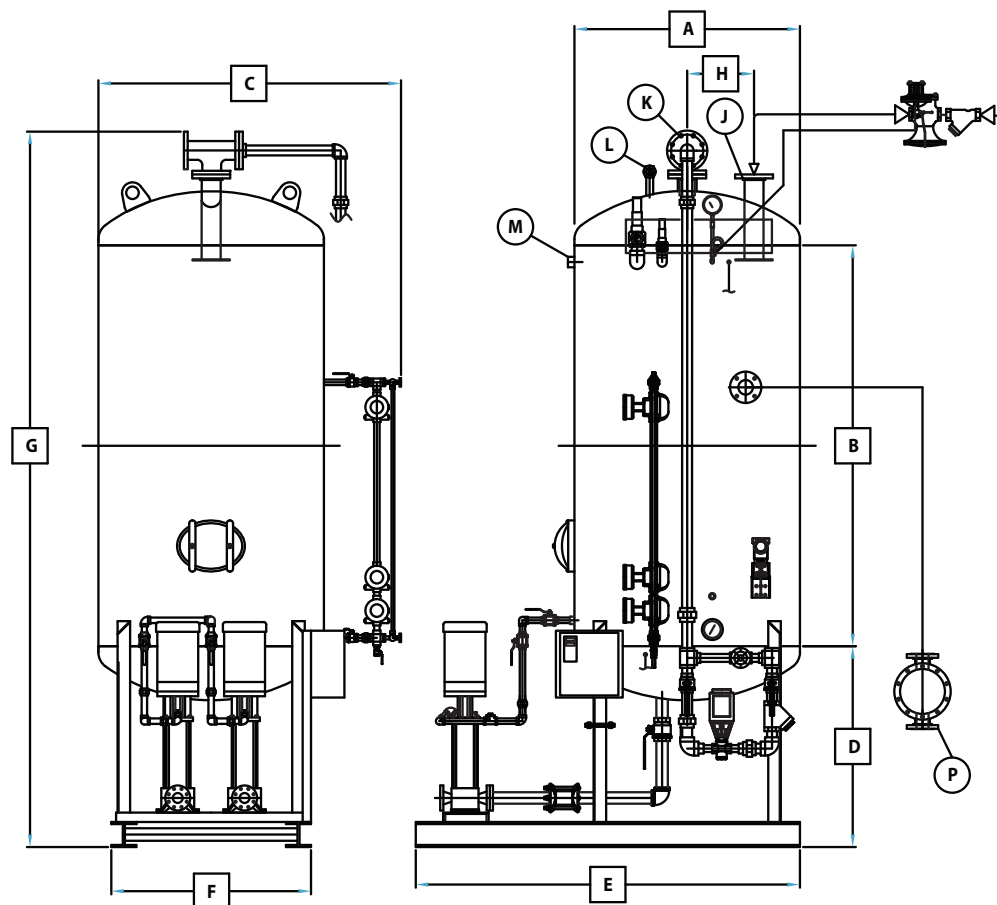


**P5 Deaerators Include Factory Installed Pumps and Factory Installed Suction Piping. Suction Piping Includes Standard Shut-off Valve and Flexible Connector.**

# P5 .005 cc/liter Pressurized Deaerators Vertical

## The standard features include:

- ASME Code vessel
- 4' Stand
- Factory piped and mounted electric modulating make up/level control
- Factory piped and mounted 3-valve by-pass and strainer
- Steam pressure control valve & strainer
- Safety valves
- High efficiency boiler feed pumps
- Factory mounted pump suction piping with flexible connector & shut off valve
- High & low level switches



**CAPACITIES & STANDARD DIMENSIONS TABLE**

MODEL No.	1P5	2P5	3P5	4P5	6P5	8P5	10P5
CAPACITY (LBS/HR)	3,450	6,900	10,350	13,800	20,700	27,600	34,500
(A) DIAMETER	36	36	48	48	48	54	54
(B) SHELL (seam to seam)	48	48	48	48	72	94	96
(C) OVERALL LENGTH	54	54	66	66	66	72	72
(D) STAND HEIGHT	48	48	48	48	48	48	48
(E) STAND LENGTH	74	74	86	86	86	92	92
(F) OVERALL WIDTH*	30	30	42	42	42	48	48
(G) OVERALL HEIGHT	124	124	124	124	148	173	173
(H) MAKEUP NOZZLE LOCATION	11	11	11	11	11	16	16
(J) STEAM INLET	2	2	3	3	3	4	4
(K) WATER INLET**	3	3	3	3	3	4	4
(L) VENT OUTLET	1	1	1	1	1-1/4	1-1/4	1-1/4
(M) HIGH PRESS DRIP	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
(N) DRAIN OUTLET	1-1/2	1-1/2	1-1/2	1-1/2	2	2	2
(P) OVERFLOW OUTLET	2	2	2	2	3	3	3
CAPACITY TO OVERFLOW	155	155	285	285	413	697	697
STORAGE MINUTES	21.0	11.1	13.9	10.3	10.0	12.6	10.1
SHIPPING WEIGHT (lbs)***	1,400	1,400	2,000	2,000	2,400	3,100	3,100

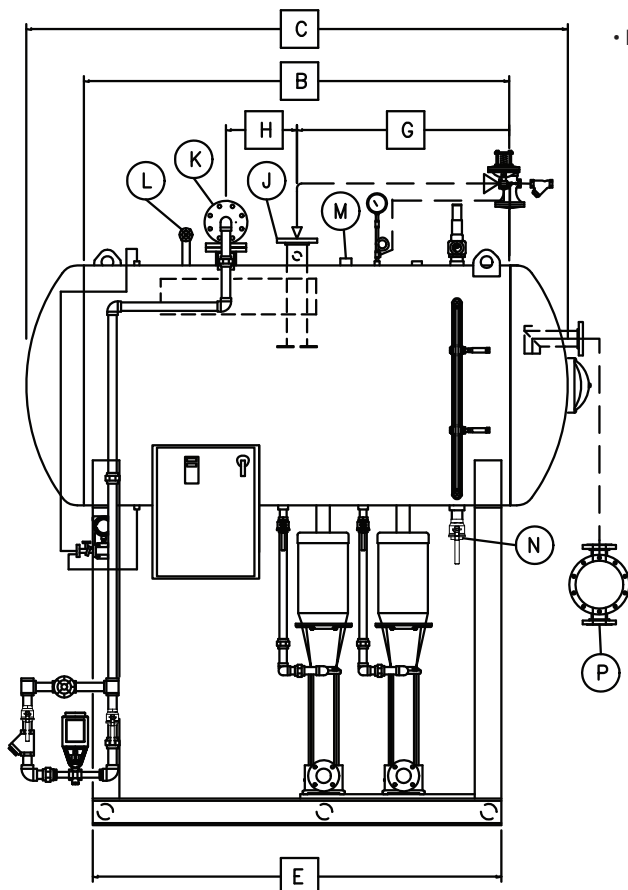
\* Includes 48" stand \*\* Inlet "K" includes makeup and returns \*\*\* Not including boiler feed pumps & panel

- NEMA 1 Control panel with:  
Control circuit transformer  
Fused disconnect  
Integral starters  
Pump run lights  
HOA switches for each pump  
Alarm and silence

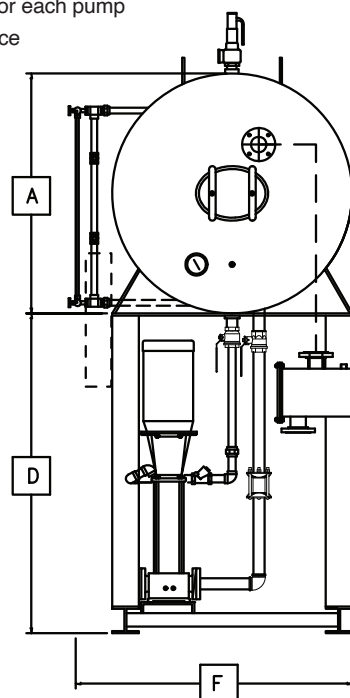
# P5 .005 cc/liter Pressurized Deaerators Horizontal

## The standard features include:

- ASME Code vessel
- 4' Stand
- Factory piped and mounted electric modulating make up/level control
- Factory piped and mounted 3-valve by-pass and strainer
- Steam pressure control valve & strainer
- Safety valves
- High efficiency boiler feed pumps
- Factory mounted pump suction piping with flexible connector & shut off valve
- High & low level switches



- NEMA 1 Control panel with:
  - Control circuit transformer
  - Fused disconnect
  - Integral starters
  - Pump run lights
  - HOA switches for each pump
  - Alarm and silence



**CAPACITIES & STANDARD DIMENSIONS TABLE**

MODEL No.	1P5	2P5	3P5	4P5	6P5	8P5	10P5	12P5	15P5	18P5	21P5	24P5	30P5
<b>CAPACITY (LBS/HR)</b>	<b>3,450</b>	<b>6,900</b>	<b>10,350</b>	<b>13,800</b>	<b>20,700</b>	<b>27,600</b>	<b>34,500</b>	<b>41,400</b>	<b>51,750</b>	<b>62,100</b>	<b>72,450</b>	<b>82,800</b>	<b>100,000</b>
(A) DIAMETER	36	36	48	48	48	54	54	60	60	60	66	66	72
(B) SHELL (seam to seam)	48	48	48	48	72	94	94	94	120	144	144	196	196
(C) OVERALL LENGTH	65	65	70	70	94	119	119	124	148	172	172	224	224
(D) STAND HEIGHT	48	48	48	48	48	48	48	48	48	48	48	48	48
(E) STAND LENGTH	44	44	44	44	68	92	92	92	116	140	140	192	192
(F) OVERALL WIDTH*	48	48	60	60	60	66	66	72	72	72	78	78	78
(G) STEAM NOZZLE LOCATION	24	24	24	24	36	48	48	48	60	72	72	98	98
(H) MAKEUP NOZZLE LOCATION	11	11	11	11	11	16	16	18	18	18	19-1/2	19-1/2	19-1/2
(J) STEAM INLET	2	2	3	3	3	4	4	6	6	6	8	8	8
(K) WATER INLET**	3	3	3	3	3	4	4	4	4	4	6	6	6
(L) VENT OUTLET	1	1	1	1	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2
(M) HIGH PRESS DRIP	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
(N) DRAIN OUTLET	1-1/2	1-1/2	1-1/2	1-1/2	2	2	2	2	2	2	2	2	2
(P) OVERFLOW OUTLET	2	2	2	2	3	3	3	3	3	3	3	3	3
CAPACITY TO OVERFLOW	155	155	285	285	413	697	697	866	1,060	1,254	1,450	1,658	2,010
STORAGE MINUTES	21.0	11.1	13.9	10.3	10.0	12.6	10.1	10.4	10.3	10.1	10	10.1	10
SHIPPING WEIGHT (lbs)***	1,400	1,400	2,000	2,000	2,400	3,100	3,100	3,600	3,850	4,100	4,800	5,300	6,000

Notes: System Includes 48" stand \*\*Includes 12" for panel \*\*Inlet "K" includes makeup and returns \*\*\*Not including boiler feed pumps & panel

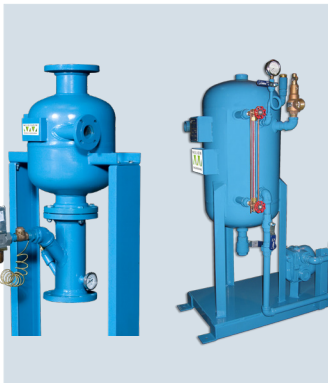
## Additional Products



**Tray ST5**  
.005 cc/Liter Pressurized  
Tray-type Deaerators



**Boiler Feedwater Systems**  
Packaged Boiler  
Feedwater Systems



**Blowdown Separator**  
**Blowdown Heat Recovery**  
Centrifugal Blowdown Separators  
Continuous Blowdown Heat Recovery System



**A3 Atmospheric Deaerator**  
.03 Atmospheric  
Deaerating Feedwater Heaters

Have questions or need help specifying this equipment?

Email: [jbrosam@industrialsteam.com](mailto:jbrosam@industrialsteam.com)

Need help with an existing system or parts?

Email: [jbrosam@industrialsteam.com](mailto:jbrosam@industrialsteam.com)

Looking for a local representative?

Email: [jbrosam@industrialsteam.com](mailto:jbrosam@industrialsteam.com)

Literature available for download at [www.Atlanticfeedwatersystemsinc.com](http://www.Atlanticfeedwatersystemsinc.com)

