Jet Spray

Spray Type Deaerator
Pressurized .005 cc/liter
COUNTER FLOW TRAY design provides guaranteed removal of all dissolved oxygen in excess of .005 cc/liter from 5% to 100% of deaerator capacity.

industrialsteam.com
Jet Spray Deaerator
Pressurized .005 cc/liter

When to use

100% Makeup
0% condensate
Yes
30% Makeup
70% condensate
High Pressure condensate returns
100% Turndown
Load Swings

*Requires surge tank

FEATURES

UNIQUE JET SPRAY scrubber design guarantees removal of all dissolved oxygen in excess of .005 cc/liter (7 ppb).

ELECTRONIC INSTRUMENTATION FOR MODULATING LEVEL CONTROL
includes a HART compatible differential pressure transmitter, PID controller, and motorized control valve.

MULTIPLE CONFIGURATIONS: vertical or horizontal vessels provide maximum flexibility using minimum footprint.

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 at 50 psi is standard. 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.

Testing Requirements
This system requires steady state conditions per the ABMA testing procedure.

**Components and Sizing**

![Components and Sizing Diagram]

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>RATED SIZE</th>
<th>RECEIVER SIZE</th>
<th>SYSTEM CAP. TO OVERFLOW</th>
<th>APPROX OVERALL DIMENSIONS, in.</th>
<th>APPROX WEIGHT, lbs</th>
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</table>

- Consult Factory for systems over 300,000 lbs/hr
- Weights do not include pumps or optional equipment

**Components**

- 1 High Water Alarm Switch
- 2 Make-up Nozzle
- 3 Y-Strainer
- 4 Pressure Control Valve
- 5 Steam Nozzle
- 6 Make-up Control Valve
- 7 Level Controller
- 8 Boiler Feed Pump Motor
- 9 Boiler Feed Pump
- 10 Make-up Ball Valve
- 11 Make-up Globe Valve
- 12 Pressure Gauge (0-15#) w/cock
- 13 Temperature Gauge w/thermowell
- 14 Safety Relief Valve (Set at 50#)
- 15 Venturi Valve w/scraper
- 16 Sight Glass Assembly
- 17 Over Load Alarm
- 18 Low Water Alarm & Cut Off Switch
- 19 Recirculation Orifice Union
- 20 Recirculation Valve
- 21 Suction Coupling
- 22 Suction Gate Valve
- 23 Drain Ball Valve
- 24 Vent Gate Valve
- 25 Level Transmitter
- 26 Make-up Y-Strainer
- 27 Recirculation Check Valve
- 28 Starter
- 29 Control Panel (NEMA 1)
- 30 Water Column Drain Ball Valve
- 31 Water Column Isolation Ball Valve
- 32 Chemical Feed Quill
- 33 Discharge Pressure Gauge (0-400#)
- 34 Discharge Ball Valve
- 35 Discharge Check Valve

**Dimensions, in.**

- 15JS 68 x 5' 7" x 300,000
- 25JS 84 x 18' 11" x 250,000
- 35JS 96 x 23' 3" x 200,000
- 45JS 96 x 19' 3" x 150,000
- 55JS 72 x 18' 7" x 125,000
- 65JS 72 x 16' 4" x 100,000
- 75JS 66 x 16' 4" x 80,000
- 85JS 60 x 14' 4" x 72,500
- 95JS 60 x 12' 4" x 62,100
- 105JS 60 x 10' 4" x 51,750
- 115JS 60 x 8' 4" x 41,400
- 125JS 60 x 6' 4" x 31,000
- 135JS 60 x 4' 4" x 20,700
- 145JS 60 x 2' 4" x 10,350
- 155JS 60 x 0' 4" x 6,900

**Weights, lbs**

- 15JS 11,500
- 25JS 27,000
- 35JS 40,500
- 45JS 54,000
- 55JS 67,500
- 65JS 81,000
- 75JS 94,500
- 85JS 108,000
- 95JS 121,500
- 105JS 136,000
- 115JS 150,500
- 125JS 164,000
- 135JS 178,500
- 145JS 193,000
- 155JS 207,500

**Shipping, tons**

- 15JS 80500
- 25JS 66000
- 35JS 51400
- 45JS 41000
- 55JS 33100
- 65JS 29600
- 75JS 27900
- 85JS 24500
- 95JS 2000
- 105JS 1800
- 115JS 1400
- 125JS 1000
- 135JS 6500
- 145JS 3500
- 155JS 1000
Components and Sizing

1. High Water Alarm Switch
2. Make-up Nozzle
3. Y-Strainer
4. Pressure Control Valve
5. Steam Nozzle
6. Make-up Control Valve
7. Level Controller
8. Boiler Feed Pump Motor
9. Boiler Feed Pump
10. Make-up Ball Valve
11. Make-up Globe Valve
12. Pressure Gauge (0-15#) w/cock
13. Temperature Gauge w/thermowell (50 DEGREE - 500 DEGREE F)
14. Safety Relief Valve (Set at 50#)
15. Sentinel Relief Valve (Set at 20#)
16. Sight Glass Assembly
17. Overflow Trap
18. Low Water Alarm & Cut Off Switch
19. Recirculation Orifice Union
20. Recirculation Ball Valve
21. Suction Coupling
22. Suction Gate Valve
23. Drain Ball Valve
24. Vent Gate Valve
25. Level Transmitter
26. Make-up Y-Strainer
27. Recirculation Check Valve
28. Starter
29. Control Panel (NEMA 1)
30. Water Column Drain Ball Valve
31. Water Column Isolation Ball Valve
32. Chemical Feed Quill
33. Discharge Pressure Gauge (0-400#)
34. Discharge Ball Valve
35. Discharge Check Valve

- Consult Factory for systems over 300,000 lbs./hr.
- Weights do not include pumps or optional equipment
- Includes 48” Stand
- Includes Control Panel

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
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<th>RECEIVER SIZE</th>
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Jet Spray

0.005 cc/Liter Pressurized Deaerator

Spray Type Deaerator
Pressurized 0.005 cc/liter
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Have questions or need help specifying this equipment? Email: engineering@industrialsteam.com
Need help with an existing system or parts? Email: techsupport@industrialsteam.com
Looking for a local representative? Email: sales@industrialsteam.com
Literature available for download at industrialsteam.com

Additional Industrial Products

Tray Type
Pressurized 0.005 cc/liter
Pressurized Deaerators

Spray Flow I I
0.005 cc/Liter Atmospheric Recycling Deaerators

Steam Flow
0.005 cc/Liter Pressurized Recycling Deaerators

Blowdown Heat Recovery Systems, Blowdown Separators

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