



Enviro-Equipment Inc.
10120 Industrial Drive
Pineville NC 28134

Stock #1514

Shallow Tray 41251 Stainless Steel Air Stripper
550 GPM, 5 Trays
Aeration Blower
Discharge Transfer Pumps
Gauges, Pressure Switch, Float Switches
Control Panel
Needs refurb/completion.





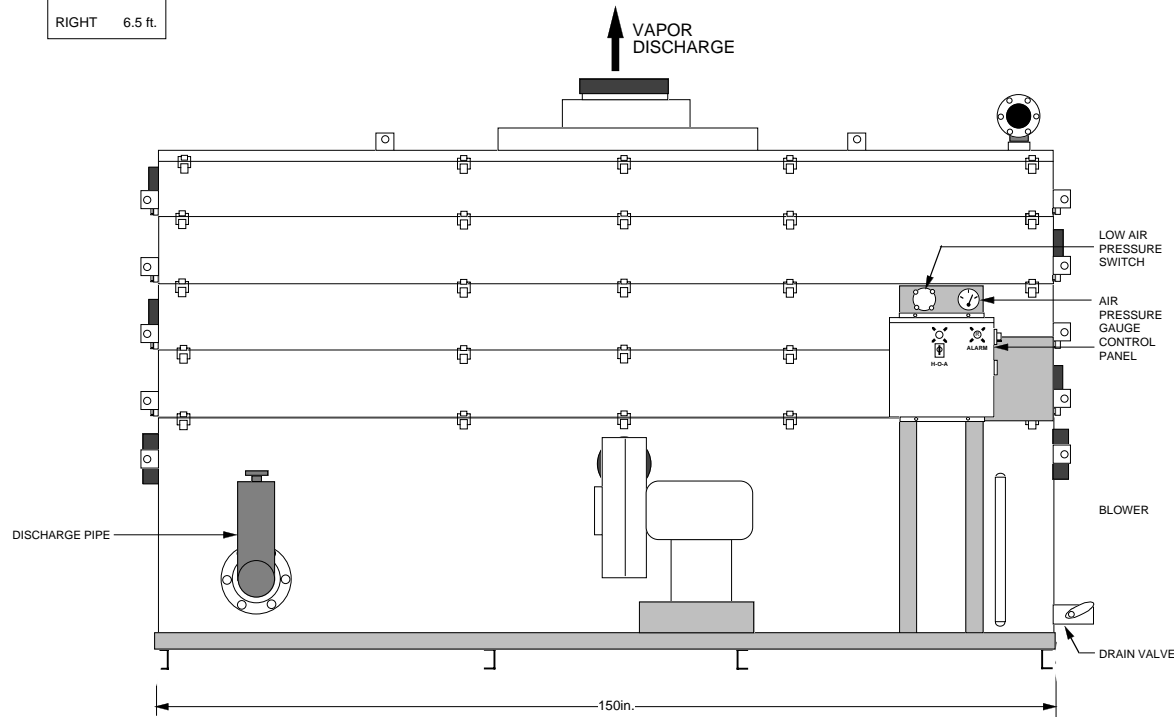
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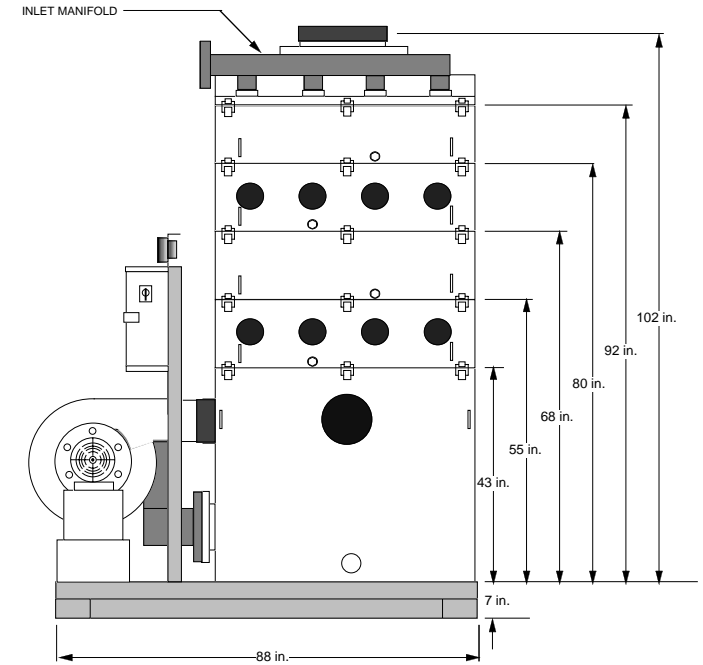
MINIMUM CLEARANCE

| | |
|-------|---------|
| FRONT | 1.5 ft. |
| TOP | 24 in. |
| REAR | N/A |
| LEFT | 6.5 ft. |
| RIGHT | 6.5 ft. |

FRONT



RIGHT SIDE



BASIC SYSTEM

- ✓ SUMP TANK
- ✓ STRIPPER TRAYS
- ✓ BLOWER
- ✓ MIST ELIMINATOR
- ✓ PIPING
- ✓ SPRAY NOZZLE
- ✓ WATER LEVEL SIGHT TUBE
- ✓ GASKETS
- ✓ LATCHES

OPTIONAL ITEMS

- ✓ SKID & STANCHION
- ✓ AIR PRESSURE GAUGE
- ✓ GRAVITY DISCHARGE PIPING
- DISCHARGE PUMP
- FEED PUMP
- ADDITIONAL BLOWER
- EXPLOSION-PROOF MOTOR(S)
- LOCAL DISCONNECT NEMA 7
- ✓ CONTROL PANEL
- ✓ MAIN DISCONNECT SWITCH
- I.S. COMPONENTS/REMOTE MOUNT
- ✓ INTERMITTENT OPERATION
- STROBE LIGHT
- ALARM HORN
- POWER LOSS INDICATOR
- ✓ LOW AIR PRESSURE ALARM SWITCH(ES)
- ✓ HIGH WATER LEVEL ALARM SWITCH
- DISCHARGE PUMP LEVEL SWITCH
- WATER PRESSURE GAUGE(S)
- DIGITAL WATER FLOW INDICATOR
- AIR FLOW METER
- TEMPERATURE GAUGE(S)
- LINE SAMPLING PORT(S)
- AIR BLOWER SILENCER
- ✓ WASHER WAND
- AUTO DIALER

NOTE: THIS DRAWING IS REPRESENTATIVE OF A STANDARD SHALLOWTRAY CONFIGURATION, AND IS NOT INTENDED FOR ENGINEERING DESIGN OR LAYOUT. ACTUAL ARRANGEMENT AND DIMENSIONS MAY VARY DEPENDING ON BLOWER SELECTION OR OTHER ACCESSORIES. PLEASE CONTACT NEEP FOR DETAILED DESIGN INFORMATION.

POWER: 3Ø, 460 Volt, 3 WIRE + GROUND 60 Hz


*CONSULT N.E.E.P. FOR AMPACITIES AND OTHER VOLTAGE OPTIONS

STRIPPER CONSTRUCTION:

304L STAINLESS STEEL

CONNECTION INFORMATION

| ITEM | SIZE |
|--------------------|----------------------|
| GRAVITY DISCHARGE | 10"Ø SOCKET, PVC80 |
| DISCHARGE PUMP | 4"Ø FNPT |
| WATER INLET | 6"Ø FNPT |
| AIR EXHAUST NOZZLE | 18"Ø STUB W/18" CPLG |

| | | | |
|---|---|---------|----------------|
|  | NORTH EAST ENVIRONMENTAL PRODUCTS, INC. 7 COMMERCE AVENUE WEST LEBANON, NEW HAMPSHIRE 03784 PHONE: 603-298-7061 FAX: 603-298-7063 http://www.neepsystems.com | | |
| | © 2002 NEEP | | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: ± 1 INCH <small>990</small> | DRAWING NAME: ShallowTray® Model 41241 | | |
| | DRAWING #: Proposal #Typical | | |
| DRAWN: DCS | CUSTOMER: NEEPSYSTEMS.com | | |
| DATE: 10/28/02 | SCALE: NTS | SIZE: A | SHEET: 1 OF: 1 |



NEEP ShallowTray® Low Profile Air Strippers

- Discreet size designed for smaller spaces, indoors or outdoors
- Removes a wide variety of volatile organic contaminants
- Wide variety of sizes and number of trays used
- Cleaning ports allow easy in-place maintenance, using washing wand and pressure washer
- No removable trays, avoiding air leaks and decreases maintenance time, handling and consumable parts
- Guaranteed performance under specified conditions
- Over 10,000 analytical tests have been performed to confirm favorable results



The NEEP ShallowTray, invented in 1988, was the first low profile air stripper on the market. Since then, over 4,000 units have been installed worldwide. The ShallowTray modeler software program accurately sizes the unit for your application. With this program, equipment performance is guaranteed under specified conditions.

INLET CHAMBER

Influent wastewater enters into the unit through the inlet or optional spray nozzle. The wastewater will then flow over the weir and enter into the aeration trays.

INLET CONNECTIONS

All connections 3" and smaller are FNPT couplings. All connections 4" and larger are flanges

with ANSI 150 pound standard bolt circle. Flanged piping connections conform to ANSI B16.5.

AERATION TRAYS

Units are constructed out of polyethylene or stainless steel.

Once the wastewater starts to flow over the trays, clean air is blown up through 3/16" orific-

es that are strategically spaced in the tray. This injection of clean air will create a froth of bubbles, which generates a large mass transfer surface area. This surface area will volatilize the specified contaminants in the water.

More trays and larger sized units are used to strip the contaminants that require more

residence time to reach optimal volatilization.

The water will flow through a series of aeration tray channels and then flow down through the downcomer to the next tray or water holding sump tank.

OUTLET

Clean water exits the water holding sump tank through the outlet, either by pumped flow or gravity flow discharge.

FEATURES

All units include the following:

- Sump tank
- Cover
- Trays
- Air blower sized to number of trays
- Blower inlet screen and damper
- Mist eliminator
- Water inlet or optional spray nozzle
- Water level sight tube

- Gaskets
- Latches
- Internal piping
- Schedule 80 PVC
- Tray cleanout ports (for stainless steel models only)

For a full list of options, such as gauges, control panels, and alarm switches, see: hydroquipinc.com/air-strippers

NEEP SHALLOWTRAY® CYLINDRICAL (POLYETHYLENE) UNIT

SPECIFICATIONS

* Dimensions are approximate and do not include Skid. Actual dimensions will vary depending on options or blower selection.

** Induced draft configuration

| Model | No. of Trays | Flow Rate (GPM) | Dimensions* | | Sump Pump Range (GAL) | Sump Cap. (GAL) | Flood Vol. (GAL) | Airflow SCFM (MIN/MAX) | Delta P (IN-H ₂ O) | Air Duct Dia. | | Liquid Connection | | |
|----------------------|--------------|-----------------|-------------|------|-----------------------|-----------------|------------------|------------------------|-------------------------------|---------------|--------------|-------------------|---------------|----------------|
| | | | Ht. | Dia. | | | | | | Sump Inlet | Outlet Cplg. | Inlet | Outlet Pumped | Outlet Gravity |
| 1300-P SERIES | | | | | | | | | | | | | | |
| NS-1311-P | 1 | 0.5-15 | 3'11" | 28" | 15 | 28 | 49 | 150/195 | 6 | 8" | 8" x 6" | 1" FNPT | 2" FNPT | 2" FNPT |
| NS-1321-P | 2 | 0.5-15 | 4'8" | 28" | 15 | 28 | 49 | 150/195 | 10 | 8" | 8" x 6" | 1" FNPT | 2" FNPT | 2" FNPT |
| NS-1331-P | 3 | 0.5-15 | 5'9" | 28" | 15 | 28 | 49 | 150/195 | 14 | 8" | 8" x 6" | 1" FNPT | 2" FNPT | 2" FNPT |
| NS-1341-P | 4 | 0.5-15 | 6'10" | 28" | 15 | 28 | 49 | 150/195 | 18 | 8" | 8" x 6" | 1" FNPT | 2" FNPT | 2" FNPT |
| 2300-P SERIES | | | | | | | | | | | | | | |
| NS-2311-P | 1 | 1-50 | 4'6" | 44" | 34 | 65 | 114 | 300/390 | 6-10 | 8" | 8" x 6" | 1.25" FNPT | 3" FNPT | 3" FNPT |
| NS-2321-P | 2 | 1-50 | 5'3" | 44" | 34 | 65 | 114 | 300/390 | 10-14 | 8" | 8" x 6" | 1.25" FNPT | 3" FNPT | 3" FNPT |
| NS-2331-P | 3 | 1-50 | 6'0" | 44" | 34 | 65 | 114 | 300/390 | 14-18 | 8" | 8" x 6" | 1.25" FNPT | 3" FNPT | 3" FNPT |
| NS-2341-P | 4 | 1-50 | 6'9" | 44" | 34 | 65 | 114 | 300/390 | 18-22 | 8" | 8" x 6" | 1.25" FNPT | 3" FNPT | 3" FNPT |
| NS-2351-P** | 5 | 1-50 | 7'6" | 44" | 34 | 65 | 114 | 300/390 | 22-26 | 8" | 8" x 6" | 1.25" FNPT | 3" FNPT | 3" FNPT |

NEEP SHALLOWTRAY® RECTANGULAR UNIT

SPECIFICATIONS

* Dimensions are approximate and do not include Skid. Actual dimensions will vary depending on options or blower selection.

** Induced draft configuration

| Model | No. of Trays | Flow Rate (GPM) | Dimensions* | | | Sump Pump Range (GAL) | Sump Cap. (GAL) | Flood Vol. (GAL) | Airflow SCFM (MIN/MAX) | Delta P (IN-H ₂ O) | Air Duct Dia. | | Liquid Connection | |
|-------|--------------|-----------------|-------------|---|---|-----------------------|-----------------|------------------|------------------------|-------------------------------|---------------|--------------|-------------------|---------------|
| | | | H | L | W | | | | | | Sump Inlet | Outlet Cplg. | Inlet | Outlet Pumped |

1300 SERIES

| | | | | | | | | | | | | | | | |
|-----------|---|----------|------|------|------|----|----|----|---------|-------|----|----|------------|---------|---------|
| NS-1311 | 1 | 0.5-22.5 | 4'6" | 3'0" | 1'0" | 10 | 20 | 42 | 150/195 | 6-10 | 8" | 6" | 1.25" FNPT | 2" FNPT | 2" FNPT |
| NS-1321 | 2 | 0.5-22.5 | 5'3" | 3'0" | 1'0" | 10 | 20 | 42 | 150/195 | 10-14 | 8" | 6" | 1.25" FNPT | 2" FNPT | 2" FNPT |
| NS-1331 | 3 | 0.5-22.5 | 6'0" | 3'0" | 1'0" | 10 | 20 | 42 | 150/195 | 14-18 | 8" | 6" | 1.25" FNPT | 2" FNPT | 2" FNPT |
| NS-1341 | 4 | 0.5-22.5 | 6'9" | 3'0" | 1'0" | 10 | 20 | 42 | 150/195 | 18-22 | 8" | 6" | 1.25" FNPT | 2" FNPT | 2" FNPT |
| NS-1351 | 5 | 0.5-22.5 | 7'6" | 3'0" | 1'0" | 10 | 20 | 42 | 150/195 | 22-26 | 8" | 6" | 1.25" FNPT | 2" FNPT | 2" FNPT |
| NS-1361** | 6 | 0.5-22.5 | 8'3" | 3'0" | 1'0" | 10 | 20 | 42 | 150/195 | 26-30 | 8" | 6" | 1.25" FNPT | 2" FNPT | 2" FNPT |

2300 SERIES

| | | | | | | | | | | | | | | | |
|-----------|---|------|------|------|------|----|----|----|---------|-------|----|----|---------|---------|---------|
| NS-2311 | 1 | 1-45 | 4'6" | 3'0" | 2'0" | 21 | 40 | 85 | 300/390 | 6-10 | 8" | 6" | 2" FNPT | 3" FNPT | 3" FNPT |
| NS-2321 | 2 | 1-45 | 5'3" | 3'0" | 2'0" | 21 | 40 | 85 | 300/390 | 10-14 | 8" | 6" | 2" FNPT | 3" FNPT | 3" FNPT |
| NS-2331 | 3 | 1-45 | 6'0" | 3'0" | 2'0" | 21 | 40 | 85 | 300/390 | 14-18 | 8" | 6" | 2" FNPT | 3" FNPT | 3" FNPT |
| NS-2341 | 4 | 1-45 | 6'9" | 3'0" | 2'0" | 21 | 40 | 85 | 300/390 | 18-22 | 8" | 6" | 2" FNPT | 3" FNPT | 3" FNPT |
| NS-2351 | 5 | 1-45 | 7'6" | 3'0" | 2'0" | 21 | 40 | 85 | 300/390 | 22-26 | 8" | 6" | 2" FNPT | 3" FNPT | 3" FNPT |
| NS-2361** | 6 | 1-45 | 8'3" | 3'0" | 2'0" | 21 | 40 | 85 | 300/390 | 26-30 | 8" | 6" | 2" FNPT | 3" FNPT | 3" FNPT |

* Dimensions are approximate and do not include Skid. Actual dimensions will vary depending on options or blower selection.
 ** Induced draft configuration

| Model | No. of Trays | Flow Rate (GPM) | Dimensions* | | | Sump Pump Range (GAL) | Sump Cap. (GAL) | Flood Vol. (GAL) | Airflow SCFM (MIN/MAX) | Delta P (IN-H ₂ O) | Air Duct Dia. | | Liquid Connection | |
|-------|--------------|-----------------|-------------|---|---|-----------------------|-----------------|------------------|------------------------|-------------------------------|---------------|-------------------|-------------------|---------------|
| | | | H | L | W | | | | | | Sump Inlet | Sump Outlet Cplg. | Inlet | Outlet Pumped |

2600 SERIES

| | | | | | | | | | | | | | | |
|-----------|---|-------|------|------|------|----|----|-----|---------|-------|----|---------|---------|--------|
| NS-2611 | 1 | 2-115 | 4'6" | 6'0" | 2'0" | 42 | 80 | 170 | 600/780 | 6-10 | 8" | 2" FNPT | 4" FNPT | 4" FLG |
| NS-2621 | 2 | 2-115 | 5'3" | 6'0" | 2'0" | 42 | 80 | 170 | 600/780 | 10-14 | 8" | 2" FNPT | 4" FNPT | 4" FLG |
| NS-2631 | 3 | 2-115 | 6'0" | 6'0" | 2'0" | 42 | 80 | 170 | 600/780 | 14-18 | 8" | 2" FNPT | 4" FNPT | 4" FLG |
| NS-2641 | 4 | 2-115 | 6'9" | 6'0" | 2'0" | 42 | 80 | 170 | 600/780 | 18-22 | 8" | 2" FNPT | 4" FNPT | 4" FLG |
| NS-2651 | 5 | 2-115 | 7'6" | 6'0" | 2'0" | 42 | 80 | 170 | 600/780 | 22-26 | 8" | 2" FNPT | 4" FNPT | 4" FLG |
| NS-2661** | 6 | 2-115 | 8'3" | 6'0" | 2'0" | 42 | 80 | 170 | 600/780 | 26-30 | 8" | 2" FNPT | 4" FNPT | 4" FLG |

3600 SERIES

| | | | | | | | | | | | | | | |
|-----------|---|-------|------|------|------|----|-----|-----|----------|-------|----|---------|---------|--------|
| NS-3611 | 1 | 3-160 | 4'6" | 6'0" | 3'0" | 64 | 121 | 255 | 900/1170 | 6-10 | 8" | 3" FNPT | 4" FNPT | 6" FLG |
| NS-3621 | 2 | 3-160 | 5'3" | 6'0" | 3'0" | 64 | 121 | 255 | 900/1170 | 10-14 | 8" | 3" FNPT | 4" FNPT | 6" FLG |
| NS-3631 | 3 | 3-160 | 6'0" | 6'0" | 3'0" | 64 | 121 | 255 | 900/1170 | 14-18 | 8" | 3" FNPT | 4" FNPT | 6" FLG |
| NS-3641 | 4 | 3-160 | 6'9" | 6'0" | 3'0" | 64 | 121 | 255 | 900/1170 | 18-22 | 8" | 3" FNPT | 4" FNPT | 6" FLG |
| NS-3651 | 5 | 3-160 | 7'6" | 6'0" | 3'0" | 64 | 121 | 255 | 900/1170 | 22-26 | 8" | 3" FNPT | 4" FNPT | 6" FLG |
| NS-3661** | 6 | 3-160 | 8'3" | 6'0" | 3'0" | 64 | 121 | 255 | 900/1170 | 26-30 | 8" | 3" FNPT | 4" FNPT | 6" FLG |

31200 SERIES

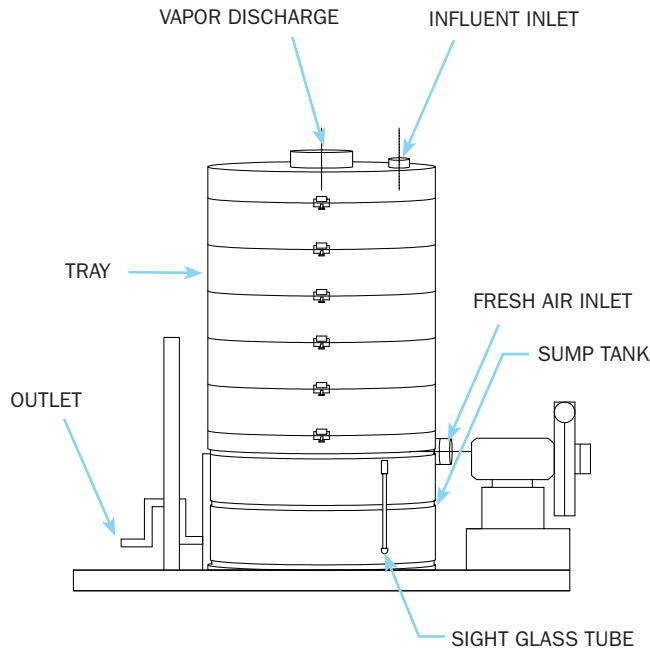
| | | | | | | | | | | | | | | |
|------------|---|-------|-------|-------|-------|-----|-----|-----|-----------|-------|-----|--------|---------|--------|
| NS-31211 | 1 | 6-425 | 5'7" | 11'8" | 2'10" | 116 | 301 | 587 | 1800/2340 | 6-10 | 10" | 4" FLG | 4" FNPT | 8" FLG |
| NS-31221 | 2 | 6-425 | 6'7" | 11'8" | 2'10" | 116 | 301 | 587 | 1800/2340 | 10-14 | 10" | 4" FLG | 4" FNPT | 8" FLG |
| NS-31231 | 3 | 6-425 | 7'7" | 11'8" | 2'10" | 116 | 301 | 587 | 1800/2340 | 14-18 | 10" | 4" FLG | 4" FNPT | 8" FLG |
| NS-31241 | 4 | 6-425 | 8'7" | 11'8" | 2'10" | 116 | 301 | 587 | 1800/2340 | 18-22 | 10" | 4" FLG | 4" FNPT | 8" FLG |
| NS-31251 | 5 | 6-425 | 9'7" | 11'8" | 2'10" | 116 | 301 | 587 | 1800/2340 | 22-26 | 10" | 4" FLG | 4" FNPT | 8" FLG |
| NS-31261** | 6 | 6-425 | 10'7" | 11'8" | 2'10" | 116 | 301 | 587 | 1800/2340 | 26-30 | 10" | 4" FLG | 4" FNPT | 8" FLG |

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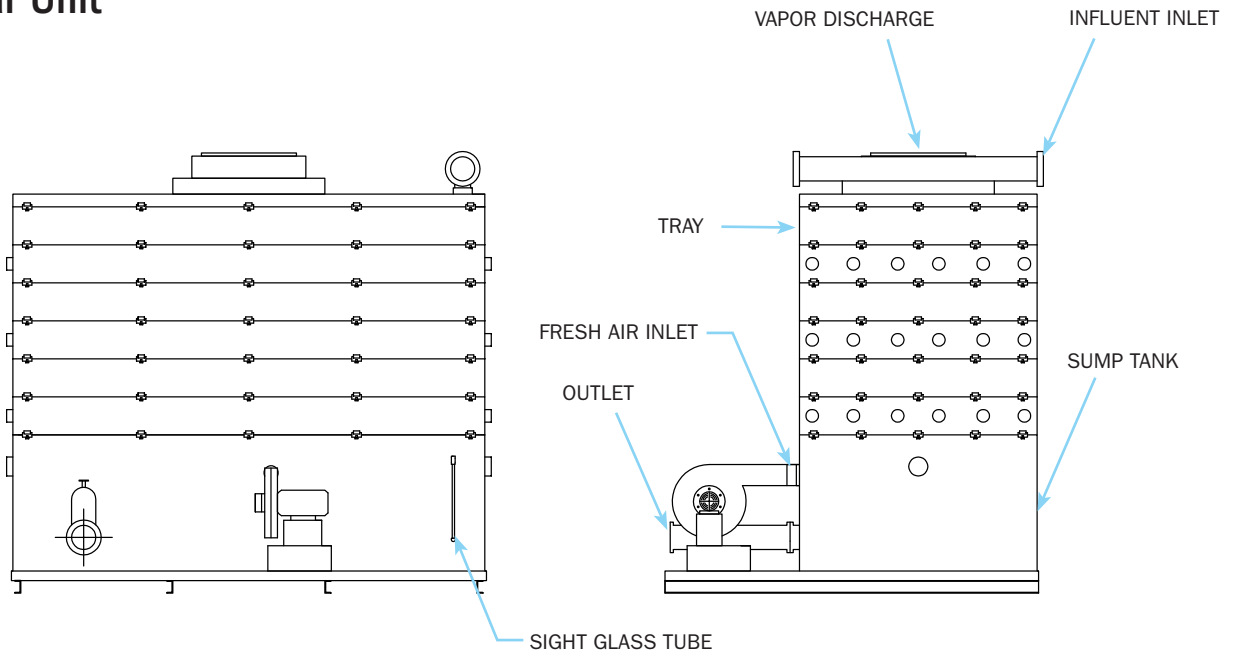
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|---------------------|--------------|-----------------|-------------|-------|------|-----------------------|-----------------|------------------|------------------------|-------------------------------|---------------|--------------|-------------------|-----------------|
| | | | H | L | W | | | | | | Sump Inlet | Outlet Cplg. | Inlet | Outlet Pumped |
| 41200 SERIES | | | | | | | | | | | | | | |
| NS-41211 | 1 | 8-550 | 5'7" | 12'0" | 4'0" | 171 | 442 | 862 | 2400/3120 | 6-10 | 10" | 18" | 6" FLG | 4" FNPT 10" FLG |
| NS-41221 | 2 | 8-550 | 6'7" | 12'0" | 4'0" | 171 | 442 | 862 | 2400/3120 | 10-14 | 10" | 18" | 6" FLG | 4" FNPT 10" FLG |
| NS-41231 | 3 | 8-550 | 7'7" | 12'0" | 4'0" | 171 | 442 | 862 | 2400/3120 | 14-18 | 10" | 18" | 6" FLG | 4" FNPT 10" FLG |
| NS-41241 | 4 | 8-550 | 8'7" | 12'0" | 4'0" | 171 | 442 | 862 | 2400/3120 | 18-22 | 10" | 18" | 6" FLG | 4" FNPT 10" FLG |
| NS-41251 | 5 | 8-550 | 9'7" | 12'0" | 4'0" | 171 | 442 | 862 | 2400/3120 | 22-26 | 10" | 18" | 6" FLG | 4" FNPT 10" FLG |
| NS-41261** | 6 | 8-550 | 10'7" | 12'0" | 4'0" | 171 | 442 | 862 | 2400/3120 | 26-30 | 10" | 18" | 6" FLG | 4" FNPT 10" FLG |
| 61200 SERIES | | | | | | | | | | | | | | |
| NS-61211 | 1 | 12-1000 | 5'7" | 12'0" | 6'0" | 256 | 663 | 1293 | 3600/4680 | 6-10 | 12" | 18" | 8" FLG | 4" FNPT 12" FLG |
| NS-61221 | 2 | 12-1000 | 6'7" | 12'0" | 6'0" | 256 | 663 | 1293 | 3600/4680 | 10-14 | 12" | 18" | 8" FLG | 4" FNPT 12" FLG |
| NS-61231 | 3 | 12-1000 | 7'7" | 12'0" | 6'0" | 256 | 663 | 1293 | 3600/4680 | 14-18 | 12" | 18" | 8" FLG | 4" FNPT 12" FLG |
| NS-61241 | 4 | 12-1000 | 8'7" | 12'0" | 6'0" | 256 | 663 | 1293 | 3600/4680 | 18-22 | 12" | 18" | 8" FLG | 4" FNPT 12" FLG |
| NS-61251 | 5 | 12-1000 | 9'7" | 12'0" | 6'0" | 256 | 663 | 1293 | 3600/4680 | 22-26 | 12" | 18" | 8" FLG | 4" FNPT 12" FLG |
| NS-61261** | 6 | 12-1000 | 10'7" | 12'0" | 6'0" | 256 | 663 | 1293 | 3600/4680 | 26-30 | 12" | 18" | 8" FLG | 4" FNPT 12" FLG |
| 81200 SERIES | | | | | | | | | | | | | | |
| NS-81211 | 1 | 16-1300 | 5'7" | 12'0" | 8'0" | 342 | 884 | 1724 | 4800/6240 | 6-10 | 12" | 18" | 8" FLG | 4" FNPT 12" FLG |
| NS-81221 | 2 | 16-1300 | 6'7" | 12'0" | 8'0" | 342 | 884 | 1724 | 4800/6240 | 10-14 | 12" | 18" | 8" FLG | 4" FNPT 12" FLG |
| NS-81231 | 3 | 16-1300 | 7'7" | 12'0" | 8'0" | 342 | 884 | 1724 | 4800/6240 | 14-18 | 12" | 18" | 8" FLG | 4" FNPT 12" FLG |
| NS-81241 | 4 | 16-1300 | 8'7" | 12'0" | 8'0" | 342 | 884 | 1724 | 4800/6240 | 18-22 | 12" | 18" | 8" FLG | 4" FNPT 12" FLG |
| NS-81251 | 5 | 16-1300 | 9'7" | 12'0" | 8'0" | 342 | 884 | 1724 | 4800/6240 | 22-26 | 12" | 18" | 8" FLG | 4" FNPT 12" FLG |
| NS-81261** | 6 | 16-1300 | 10'7" | 12'0" | 8'0" | 342 | 884 | 1724 | 4800/6240 | 26-30 | 12" | 18" | 8" FLG | 4" FNPT 12" FLG |

Cylindrical (Polyethylene) Unit



Rectangular Unit



Whether an off-the-shelf unit or customized equipment, we'll help you determine the best solution for your application and site-specific needs.

TEL: 508-399-5771

FAX: 508-399-5352

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