



Enviro-Equipment Inc.
11180 Downs Road
Pineville NC 28134
www.enviroequipment.com

Stock #2068

- Shallow Tray 31231 Air Stripper Skid
 - o 3 Trays, 6 – 425 GPM
- American Fan Model BC-5-08F-24A
 - o 15HP 3PH 3520RPM WEG Motor
- Ebara Model A3U65125150T3C Discharge Transfer Pump
 - o 15HP 3PH 3500RPM Motor
 - o Sized for 425 GPM @ 30 PSIG
- Dwyer Model 1950 High and Low XP Pressure Switches
- Sump Level Floats for Pump On/Off and Sump High Level
- 480V 3PH Relay Logic UL 508/698 Nema 4 Control Panel with Motor Controls for Blower, Discharge Pump, Intrinsically Safe Relays for Sump Level Floats, Control Relays for Pressure Switches, Alarm Interlock for Influent Pump Shut Down





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" orifices

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

* 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 Gravity

2600 SERIES

NS-2611	1	2-115	4'6"	6'0"	2'0"	42	80	170	600/780	6-10	8"	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"	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"	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"	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"	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"	8"	2" FNPT	4" FNPT	4" FLG

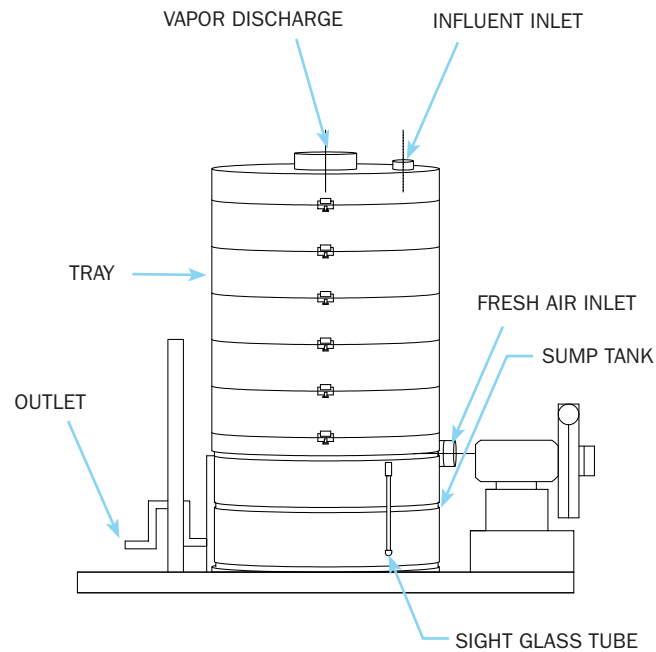
3600 SERIES

NS-3611	1	3-160	4'6"	6'0"	3'0"	64	121	255	900/1170	6-10	8"	10"	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"	10"	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"	10"	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"	10"	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"	10"	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"	10"	3" FNPT	4" FNPT	6" FLG

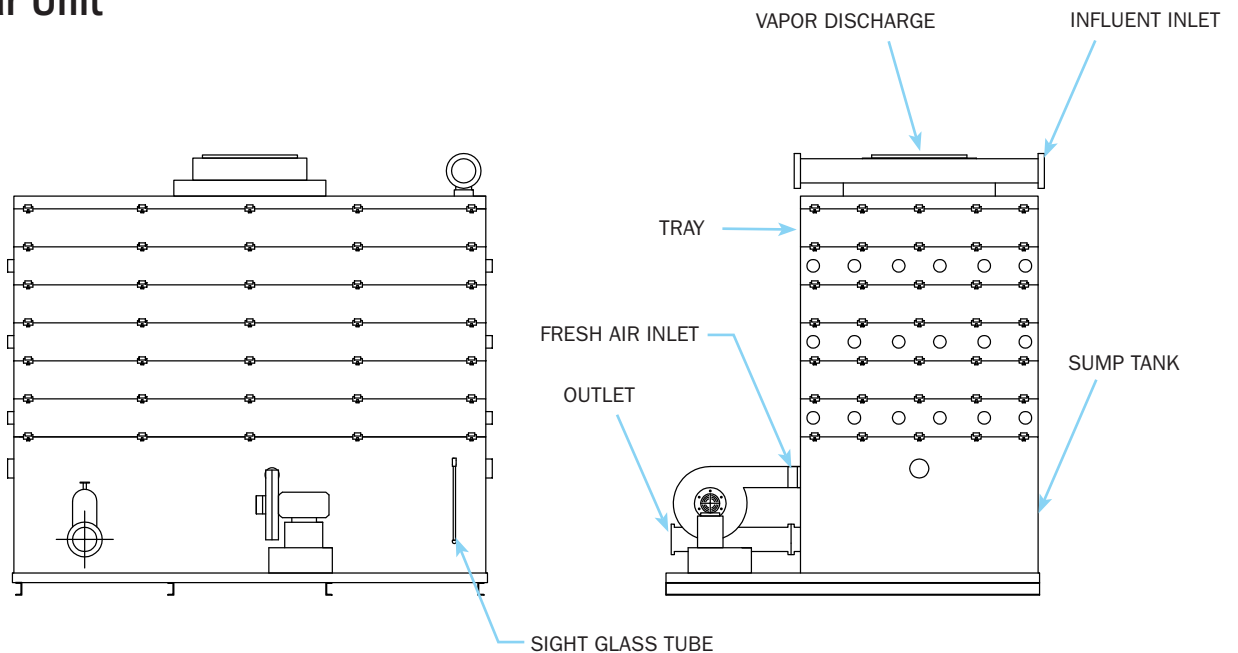
31200 SERIES

NS-31211	1	6-425	5'7"	11'8"	2'10"	116	301	587	1800/2340	6-10	10"	16"	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"	16"	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"	16"	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"	16"	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"	16"	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"	16"	4" FLG	4" FNPT	8" 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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Item number	: Default	Product Description	: A3U6512515HP
Service	:	Stages	: 1
Quantity	: 1	Based on curve number	: 3U-65-125-15
Quote number	:	Basic model number	: -
		Date last saved	: 24 Nov 2025 1:43 PM

Operating Conditions

Flow, rated	: 425.0 USgpm
Differential head / pressure, rated (requested)	: 30.00 psi
Differential head / pressure, rated (actual)	: 30.07 psi
Suction pressure, rated / max	: 0.00 / 0.00 psi.g
NPSH available, rated	: Ample
Site Supply Frequency	: 60 Hz

Performance

Speed criteria	: Synchronous
Speed, rated	: 3450 rpm
Impeller diameter, rated	: 131 mm
Impeller diameter, maximum	: 140 mm
Impeller diameter, minimum	: 120 mm
Efficiency	: 70.08 %
PEI (CL)	: 0.98
NPSH required / margin required	: 18.53 / 0.00 ft
Ns (imp. eye flow) / Nss (imp. eye flow)	: 2,019 / 8,132 US Units
MCSF	: 50.00 USgpm
Head, maximum, rated diameter	: 46.01 psi
Head rise to shutoff	: 53.11 %
Flow, best eff. point	: 309.2 USgpm
Flow ratio, rated / BEP	: 137.43 %
Diameter ratio (rated / max)	: 93.57 %
Head ratio (rated dia / max dia)	: 82.75 %
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
Selection status	: Acceptable

Liquid

Liquid type	: Cold Water
Additional liquid description	:
Solids diameter, max	: 0.00 mm
Solids concentration, by volume	: 0.00 %
Temperature, max	: 68.00 deg F
Fluid density, rated / max	: 1.000 / 1.000 SG
Viscosity, rated	: 1.12 cP
Vapor pressure, rated	: 0.33 psi.a

Material

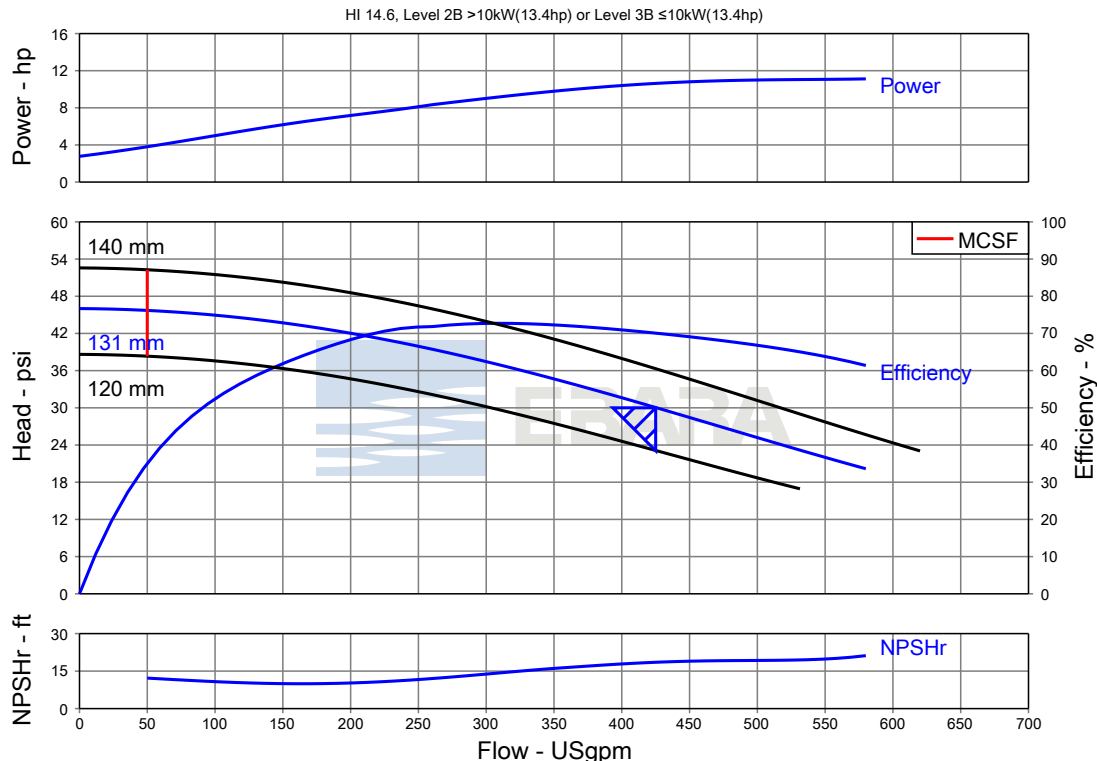
Material selected	: Stainless Steel
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Pressure Data

Maximum working pressure	: 46.01 psi.g
Maximum allowable working pressure	: 145.0 psi.g
Maximum allowable suction pressure	: N/A
Hydrostatic test pressure	: N/A

Driver & Power Data (@Max density)

Driver sizing specification	: Rated power
Margin over specification	: 0.00 %
Service factor	: 1.00
Power, hydraulic	: 7.45 hp
Power, rated	: 10.63 hp
Power, maximum, rated diameter	: 11.12 hp
Motor rating	: 15.00 hp / 11.19 kW (Fixed)


Ebara Pumps Americas Corporation

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