



Enviro-Equipment Inc.
10120 Industrial Drive
Pineville NC 28134

Stock #1703

Shallow Tray 1331 Air Stripper, 3 Trays, 22 GPM, 150 CFM
3HP Aeration Blower, 1HP Discharge Transfer Pump
XP High and Low Pressure Switches, Sump Level Floats, Pressure Gauge
230V 1PH UL 508/698 Weatherproof Relay Logic Control Panel

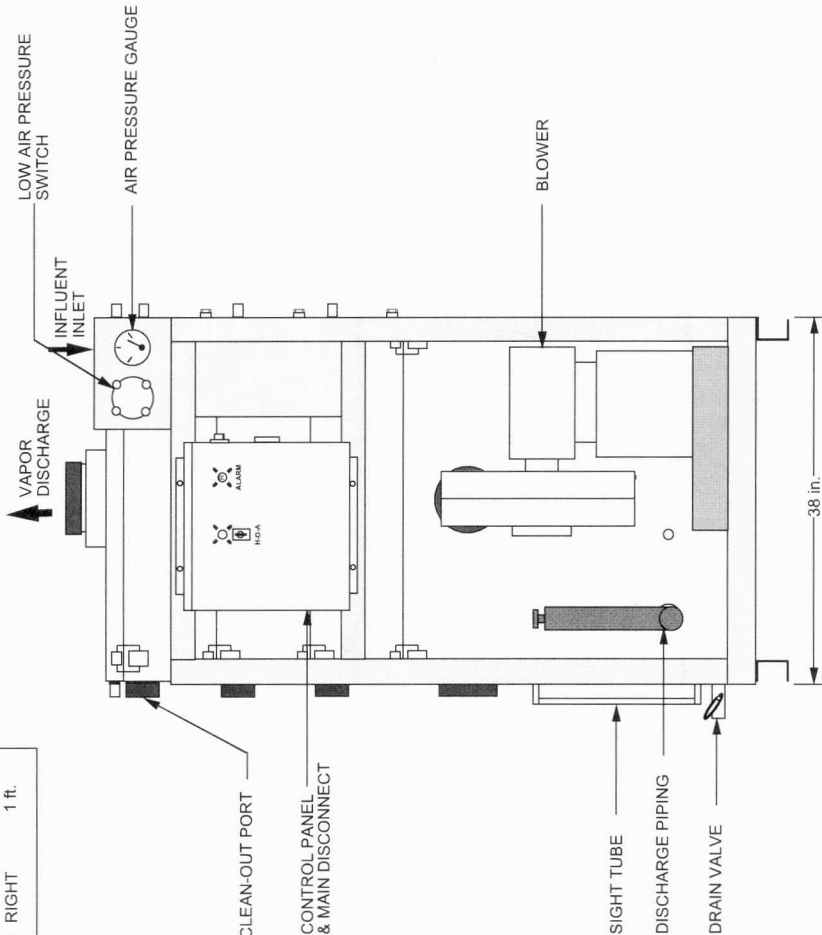


FRONT

RIGHT SIDE

MINIMUM CLEARANCE

FRONT	1.5 ft.
TOP	12 in.
REAR	N/A
LEFT	3.5 ft.
RIGHT	1 ft.



POWER: 1Ø, 230 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	2"Ø SOCKET, PVC80
DISCHARGE PUMP	1 1/2"Ø FNPT
WATER INLET	1-1/4" Ø FNPT
AIR EXHAUST NOZZLE	6"Ø STUB w/6" CPLG

OPTIONAL ITEMS

- ✓ SKID & STANCHION
- ✓ GRAVITY DISCHARGE PIPING
- ✓ AIR PRESSURE GAUGE
- ✓ 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 LAPSE INDICATOR
- ✓ LOW AIR PRESSURE ALARM SWITCH(ES)
- ✓ HIGH WATER LEVEL ALARM SWITCH
- ✓ DISCHARGE PUMP LEVEL SWITCH
- ✓ WATER PRESSURE GAUGE
- ✓ DIGITAL WATER FLOW INDICATOR
- ✓ AIR FLOW METER
- ✓ TEMPERATURE GAUGE
- ✓ LINE SAMPLING PORT(S)
- ✓ AIR BLOWER SILENCER
- ✓ WASHER WAND
- ✓ AUTO DIALER

BASIC SYSTEM

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



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DRAWING NAME: © 2002 NEEP

ShallowTray® Model 1331

DRAWING #: Proposal #Typical

CUSTOMER: NEEPSYSTEMS.com

DRAWN: DCS

DATE: 11/13/02

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" 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

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	Sump Outlet Cplg.	Inlet	Outlet Pumped	Outlet Gravity
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