

Low Profile Air Strippers

Geotech SS High Flow Air Strippers

The Geotech SS Air Strippers are designed to remove many volatile organic compounds (VOCs) from water using a countercurrent design that treats contaminated water with 99.99% efficiency in a single pass. Geotech offers a wide variety of sizes ranging from one to six trays – capable of handling a flow rate from .5 GPM to 1300 GPM.

FEATURES

- No Recirculating – No Liquid Phase Media or Packing
- Removes a wide variety of volatile organic compounds
- Vacuum induced design providing more efficiency and eliminates leaks
- Wide variety of tray configurations based on treatment criteria
- Easier maintenance with designated cleaning ports
- Remote telemetry for system monitoring available
- Inquire about complete pump and treatment systems

OPERATION

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 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.



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SPECIFICATIONS

Model	No. of Trays	Flow Rate (GPM)	Dimensions*			Pump Sump 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	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
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
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

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

** Induced draft configuration

