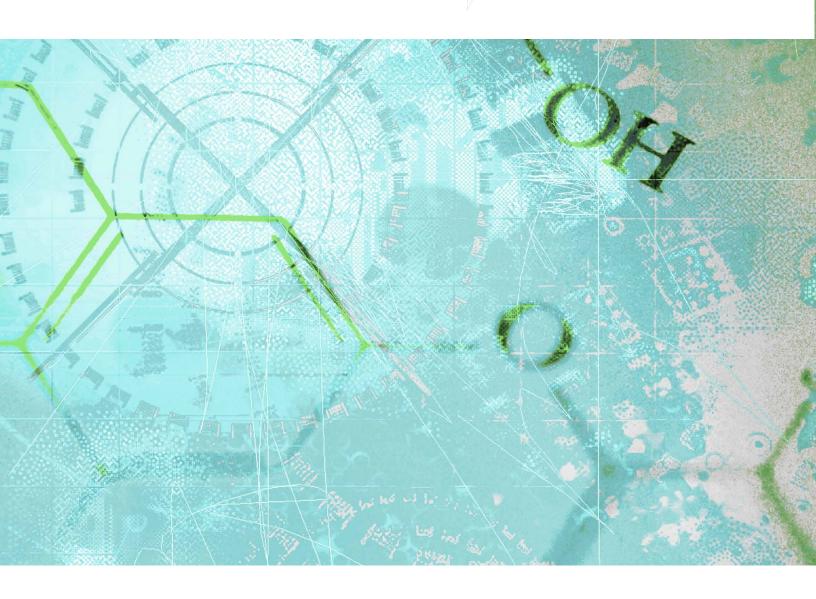
nordic water MENA



Odour Control System

OCS

CARBONS ADSORPTION SYSTEMS

Carbon adsortion is an effective means of odor control for many applications. Carbon adsorbers can efficiently remove a variety of inorganic and organic compounds from municipal and industrial process air. Typical compounds adsorbed include hydrogen sulfide, aldehydes, ketones, and a wide range of industrial solvents and volatile organic compounds, ammonia, amines, mercury, sulfur dioxide, chlorine, hydrochloric acid, poisonous gases, pherols, butylic acid.

Carbon adsorbers are particulary useful for low air flows, low odor loads, remote locations, and for the control of specific volatile organic compounds. We offer a complete line of carbon adsorption systems, ranging from skid-mounting modular systems to custom designed, single and dual-bed systems capable of handling air flows in excess of 20.000cfm.

TYPICAL APPLICATIONS

These adsorber systems effectively control odors for acid gases, sulfides, mercaptans, and similar compounds originated from treatment facilities, petrochemical plants, pulp and paper mills, and other industrial sites.

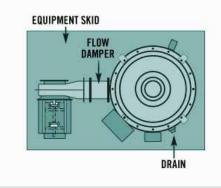
- Wastewater treatment plants
- Life stations
- Petroleum facilities
- Semi-conductormanufacturing
- Paper andpulp mills
- Chemical plants
- Dechlorination facilities
- Electroplating facilities
- Dry cleaning facilities

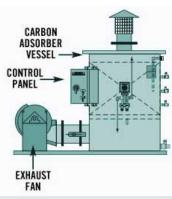
FEATURES AND BENEFITS

- Pre-assembled and skid-mounted for simple installation
- Models for air flowrates from 100 to 20000 cfm
- Passive flow systems available
- High performance carbon media
- Vessel constructed of polypropilene or premium vinylester fiberglass reinforced plastic, stainless steel
- Fan manufactured of stailess steel or fiberglass reinforced plastic
- Includes control panel, drain and grounding rod
- Available with volume control damper, carbon sample ports, differential pressure gauge
- 4 x 6 pellerized carbon provides lower pressure drop than other types









NW-ACS MODELS

Nordicwater has a complete range of equipments. Active types (with fan and interconnector pipes include) and passive types for natural process ventilator in place of fan.

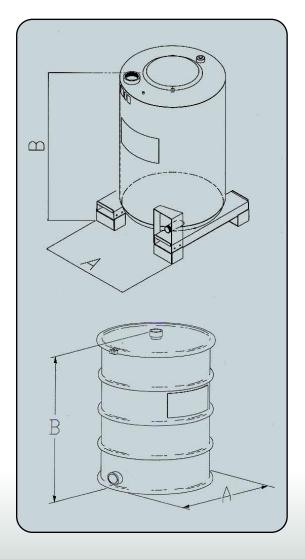
NW-ACS-P (Passive Types) MODELS

Contaminated air can simply be ducted to one or more adsorbers wich contain specially selected activated carbon. The carbon adsorbs the pollutants or odor producing chemicals, allowing clean air to be vented to the atmosphere.

APPLICATIONS

- Air stripper exhaust
- Tank venting
- Emission control
- Pilot studies
- Soil vapor extraction systems
- Sewage plant odor control
- Work area protection





Specifications				
Model Number	NW-170	NW-500	NW-1000	NW-2000
Maximum Flow	100cfm	300cfm	500cfm	500cfm
Minimum Carbon				
Weight (lbs.)	170	500	1000	2000
Maximum				
Pressure (psig)	8	10	10	10
Dimension A (in.)	23	35	46	46
Dimension B (in.)	34	60	64	88
System Pressure				
Drop	4" wc	8" wc	12" wc	19" wc

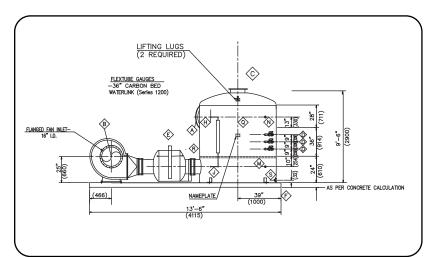


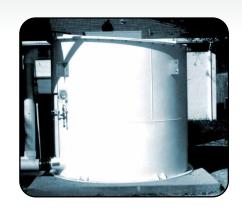
NW-ACS-A (Active Type Adsorbers) MODELS

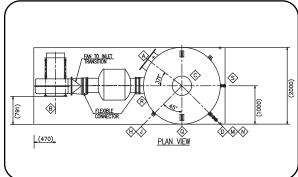
For larger air flows rates NW offers custom designed single and dual bed carbon adsorbers. Carbon adsorbers units can be designed to handle in excess for 20,000 cfm.

As with the modular cardon adsorber system, the carbon media type is selected based on the specific application.

NW-ACS-AS (Single Bed Active Type Adsorbers)

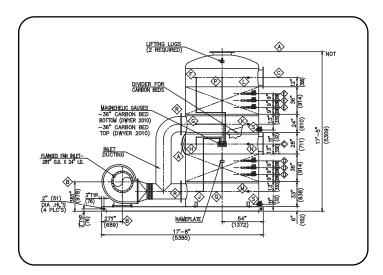




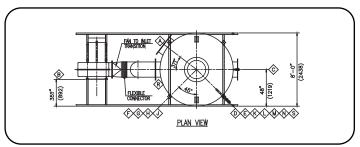


Model	Flow rate (125 mm.w.c) 4°C Sm3/h Scfm	Fan Model	НР	Diameter mm	Height mm	Weight Kg	Inlet/Outlet Diameter mm
NWACS-AS-200	340 200	2	0.5	540	1600	320	100
NWACS-AS-450	765 450	4.5	1	820	1700	590	150
NWACS-AS-800	1360 800	8	2	1100	1900	980	200
NWACS-AS-1250	2120 1250	12.5	2.5	1300	2200	1400	250
NWACS-AS-1500	2550 1500	15	3	1500	2400	1800	300
NWACS-AS-2100	3600 2100	21	4	1800	2600	2500	350
NWACS-AS-2600	4400 2600	26	6	2000	2800	3300	400
NWACS-AS-3300	5600 3300	33	8	2200	2900	4200	450
NWACS-AS-4300	7300 4300	43	8	2500	3100	5200	500
NWACS-AS-5200	8850 5200	52	10	2800	3300	6200	550
NWACS-AS-6200	10500 6200	62	16	3000	3500	7400	600

NW-ACS-AD (Dual Beds Active Type Adsorbers)







Model	Flow rate (125 mm.w.c) 4°C Sm3/h Scfm	Fan Model	НР	Diameter mm	Height mm	Weight Kg	Inlet/Outlet Diameter mm
NWACS-AD-30	5100 3000	30	6	1600	4500	3700	400
NWACS-AD-42	200 7100 4200	42	8	1800	4800	5100	450
NWACS-AD-52	200 8800 5200	52	10	2000	5100	6600	550
NWACS-AD-60	600 11200 6600	66	16	2300	5400	8300	600
NWACS-AD-80	600 14600 8600	86	16	2600	5900	10300	700
NWACS-AD-10	0400 17700 10400	104	18	2800	6100	12300	750
NWACS-AD-12	2400 21100 12400	124	20	3000	6300	14700	800

ENGINEERED EQUIPMENT AND SYSTEMS



PORTABLE ABSORBERS

Low cost, adsorbers are widely used for short-term air and water purification. Available in drums, canisters, and in reinforced vessels for pressures to 150 psig. Easily installed units permits high flexibility in treatment system design.



ODOR CONTROL SYSTEMS

Adsorption systems control odors from acid gases, sulfides, mercaptans, etc., and are commonly specified in municipal and industrial wastewater treatment plants. FRP contruction protects unit from corrosion.



CONTAINMENT HOUSINGS

All-stainless housing use high efficiency carbon and/or particulate filters to isolate and remove potentially hazardous gases. Bag-out system protects personnel from toxic or radioactive contaminants during filter changeout.



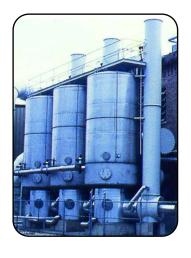
PACKAGED SOLVENT RECOVERY SYSTEMS

Pre-assembled, skid-mounted plants are ideal for applications with airflows to 7000 scfm. Units are factory tested and documented to minimize installation/startup efforts and space requirements.



VERTICAL DEEP BED ADSORBERS

This versatile system purifies airstream in many industrial and commercial environments. Its compact, energy efficient design lowers operating costs and floor space requirements. Standard and customized systems can handle air volumes to 30,000 scfm and more.



SITE-INSTALLED SOLVENT RECOVERY SYSTEMS

Expertly designed installations can treat up to 300,000 scfm of solvent laden air. Savings in process solvents can cost-justify a system in as little as six months. Complete turnkey service included process design, procurement, installation, startup, and operator training.



CONCENTRATORS

The deep bed rotary concentrator is designed for economical removal of low concentration VOC/HAPs in high volume airstreams.

Organics are adsorbed on rotating carbon cells, then desorbed into a more concentrated low volume airstream for efficient downline recovery or destruction.



SOIL VAPOR EXTRACTION

Mobile systems treat up to 1000 lbs. per day of vapor contaminants drawn from multiple extraction wells. Engineered units include carbon adsorbers, high pressure vacuum blowers, liquid entrainment separators, and instrumentation.

MAJOR MARKETS SERVED

- Pigments
- Wood Preservatives
- Ceramics

- Water Treatment
- Catalysts
- Chemical Processing
- Steel
- Pharmaceutical
- Food/Beverage
- Sugar/Sweeteners
- Gas/Oil Refineries
- Pollution Control

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