



2018 PRODUCT CATALOG

AIRGATE WEED CURTAINS



ARE ROTTING WEEDS AND DEBRIS RUINING YOUR CANAL OR MARINA?

Wind and water currents drive floating weeds and debris into canals and marinas where they are trapped and decompose, releasing nutrients and foul odors. The dead plants cause dissolved oxygen levels to drop stressing fish and wildlife and decreasing water clarity. Once attractive marinas and canals become an eyesore, fisheries and recreational activities decline, hydrogen sulfide odors persist, bottom muck accumulates and real estate values drop.

AIRGATE ECO-FRIENDLY TECHNOLOGY

Vertex AirGates provide a simple, effective and environmentally safe solution to wind driven surface weeds, sea grasses and debris clogging up canals, marinas and docks. Using air supplied by a shore mounted air compressor, adjustable emitters along the channel bottom create a column of air bubbles forcing water from the bottom to the surface, creating a counter current that pushes back surface weeds, preventing them from entering the protected area while allowing boats and wildlife to easily and safely pass.



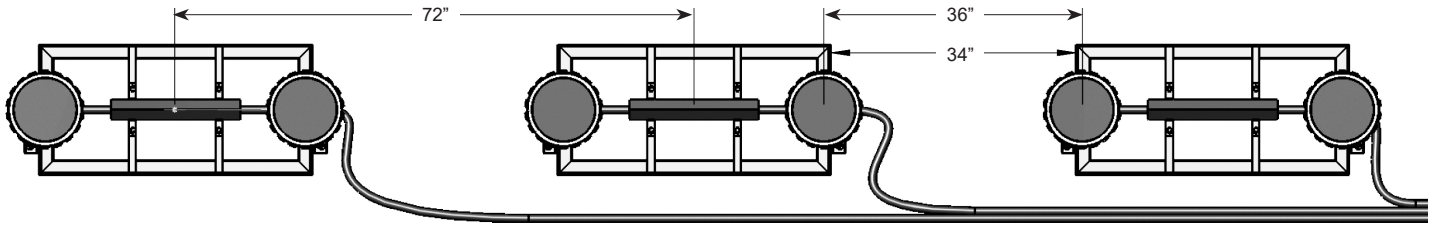
AIRGATE FEATURES & BENEFITS

- ♦ Commercial grade Brookwood compressors for extended service intervals
- ♦ Heavy gauge, powder coated aluminum compressor cabinets for marina environments
- ♦ Flexible EPDM membrane bubble emitters to minimize organic fouling
- ♦ Valve manifold provides easy shoreline adjustment of each bubble emitter
- ♦ Uniform bubble pattern regardless of length, depth or slope
- ♦ AirGate allows boats to pass while rejecting surface weeds and light debris
- ♦ No electrical components in the water for unrestricted recreational activities
- ♦ AirGate operation is safe for wildlife, fisheries and manatees
- ♦ Weed choked areas recover water quality following AirGate installation
- ♦ Easy, non-technical equipment installation and maintenance
- ♦ Submersed materials are durable plastics, stainless steel and brass
- ♦ Free custom design by Florida Keys Aeration for proper airflow and long term operation
- ♦ Self install or installation services available

Airgate weed curtains are designed specifically to the length and depth of the channel and will include multiple adjustable emitters, one or more HE compressors/cabinets and tubing. To optimize the operation we may also recommend a Wind Tracker and Monitor.

CALL FOR FREE DESIGN WITH PRICING

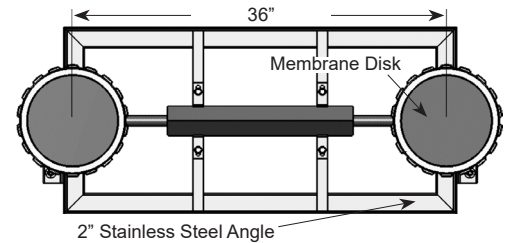
AIRGATE SYSTEMS SPECIFICATIONS



Each of the AirStations are placed 6 ft apart Center to Center. This allows for the Diffuser Disks to be 3 ft apart.

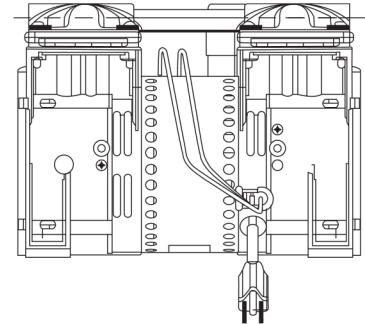
AIRGATE™ EMITTER ASSEMBLY

Emitters consist of two 9" diameter flexible EPDM membrane disks with 100% rebound memory producing a flow of 0.5mm to 3.0mm size bubbles. Vertex FlowControl™ technology equalizes airflow to each disk when placed on uneven sediments.



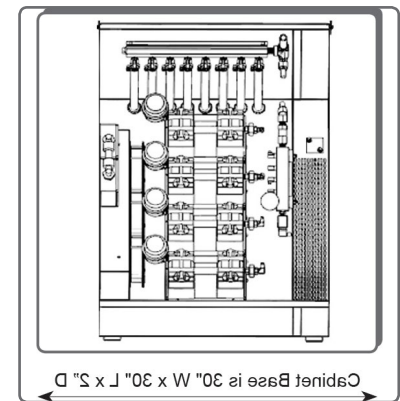
BROOKWOOD™ HIGHFLOW™ COMPRESSOR

3/4hp or 1.0hp twin cylinder piston type compressor. 230v single phase 50 & 60 Hz. UR, CE, CSA listed and built for continuous 24/7 operation. Super-duty Brookwood™ HighFlow™ compressors incorporate upgraded rotors, stators and capacitors and are thermally protected, oil-free, and require no lubrication; just periodic replacement of air filter. Extended service cycle is approximately 2 to 3 years, about twice that of ordinary piston and rotary vane compressors. All Brookwood™ HighFlow™ compressor systems carry a 3-year parts warranty excluding wearable parts (air filters and compressor maintenance kits).



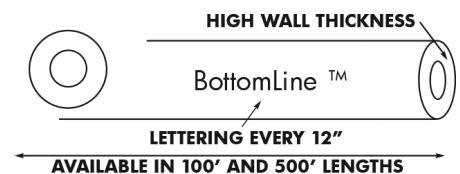
QUIETAIR™ AIRGATE™ CABINET

Equipped with keyed cam lock for security and fully gasketed and constructed of aluminum with gray electrostatically-bonded powder coating to provide a 5 year warranty against corrosion. Furnished with stamped ventilation grill and 3 integral redundant cooling fans to guard against excessive compressor operating temperatures. Equipped with Vertex SafeStart™ technology allowing auto restart under maximum rated pressure preventing motor damage. Customer to provide GFCI protection on their electrical supply circuit. Quick disconnect switch included. Houses up to four HighFlow compressors as specified by Vertex engineering per AirGate design.



BOTTOMLINE™ SUPPLY TUBING

Self-weighted, direct burial submersible tubing for connection from compressor to diffuser stations. Tubing is flexible PVC composite construction for use with standard PVC solvent weld cement and insert fittings. Tubing has high wall thickness for long term durability and protection against punctures. Remains flexible in cold temperatures.



Install all electrical equipment in accordance with Article 682 of the National Electrical Code and all local codes. Vertex Water Features reserves the right to improve and change our designs and/or specifications of our aerators without notice or obligation.

MARINE AERATION

RESTORE CANALS, HARBORS AND MARINAS NATURALLY

AirGate weed curtains can prevent future problems in your waterway, but if there are already serious problems from long-term low oxygen levels, you need to add oxygen to the water. Aeration systems provide a simple, effective and environmentally safe solution to add oxygen to a basin or a linear canal, to increase water movement in stagnant areas of a canal or marina or to protect your personal dock from floating seaweed. With no electricity in the water the aeration system is safe for water recreation. QuietAir™ cabinets with Brookwood™ compressors are designed to fit into the landscape without being obtrusive while providing maximum effectiveness. Choose plug-in connection for waterside electrical service or a custom configuration for distant power sources.

BROOKWOOD™ COMPRESSOR

- ♦ Vertex SafeStart™ Technology
- ♦ UL, 115v or 230v, 35 Max PSI
- ♦ Thermal overload protection
- ♦ 2-3 year extended duty cycle between scheduled maintenance
- ♦ **3-year Vertex warranty, excluding wearable parts (air filters and compressor maintenance kits)**



Optional teflon
membrane diffusers
offer longer life in
marine systems



QUIETAIR™ CABINET

- ♦ Class "A" GFCI protection on all 115v circuits
- ♦ Powder coated aluminum for a durable attractive finish
- ♦ High capacity 290 CFM fan
- ♦ Easy access design with cam lock
- ♦ Easy plug-in connection to waterside electrical service
- ♦ Disconnect switch
- ♦ Heavy duty, light weight mounting pad included
- ♦ Sound dampening kit optional
- ♦ **Limited lifetime warranty against rust**

MARINE AIRSTATIONS™

Some aerators add oxygen only at the surface or use large bubbles that escape at the surface, Vertex diffusers push millions of tiny bubbles from the bottom of the lake to the surface to add oxygen everywhere its needed!

- ♦ 9" flexible membrane discs with MicronBubble™ technology
- ♦ Shallow water Airstation optional for depths lower than 8'
- ♦ Powder-coated stainless steel self-sinking base unit designed to prevent sinking into soft bottom sediments
- ♦ **5-year "No Questions" warranty**



MARINE HE 33 COMPRESSOR SYSTEM



BLOCK OUT WEEDS AND DEBRIS AND ADD LIFE GIVING OXYGEN TO YOUR WATERWAY TO IMPROVE WATER QUALITY

The new Vertex Marine 33HE™ high efficiency compressor system is ideal for both aerating coastal saltwater canals, harbors and marinas as well as powering Vertex AirGate™ bubble curtains to deflect floating weeds and light debris away from these sites. The Marine 33HE represents our most advanced technology yet in large single phase marine compressor systems.

FEATURES & BENEFITS

- ♦ **Powerful:** Brookwood super-duty 230V single phase HighFlow™ compressors provide up to 30 PSI of continuous working pressure versus 15 PSI for rotary vane compressors.
- ♦ **Higher Efficiency:** Brookwood HighFlow™ compressor systems reduce electric bills about 40% over comparable older technology rotary vane compressors.
- ♦ **Total Airflow:** 33 Cubic Feet/Minute – Industries highest flow rate, a 50% increase over our next largest single phase system.
- ♦ **Epoxy Coated Compressor Heads:** New corrosion coatings protect critical components against demanding subtropical coastal environments.
- ♦ **Compressor Cabinet:** Heavy gauge, powder coated, reinforced and welded aluminum construction with stainless steel fasteners.
- ♦ **Redundant Cooling System:** Three oversized 7" axial fans with excess capacity to protect compressors from over-heating and premature motor failure in hot climates.
- ♦ **Vertex SafeStart™:** This exclusive technology allows safe automatic restart under full back pressure without compressor damage following power supply interruption.
- ♦ **Versatility:** System is totally customizable, operates all models of Vertex marine grade stainless steel AirStations™ and VBS remote valve boxes as needed.
- ♦ **World's Best Warranty:** 3 years parts coverage on compressor system excluding wearable parts (air filters and compressor maintenance kits), 5 years on all AirStations™ and 15 years on BottomLine™ air supply tubing.



MARINE AERATION SYSTEMS

CONSULTING

Choosing the correct product is challenging. We schedule time for an on-site visit, listen to your needs, answer any questions you may have and assist in choosing the best solution.

DESIGN

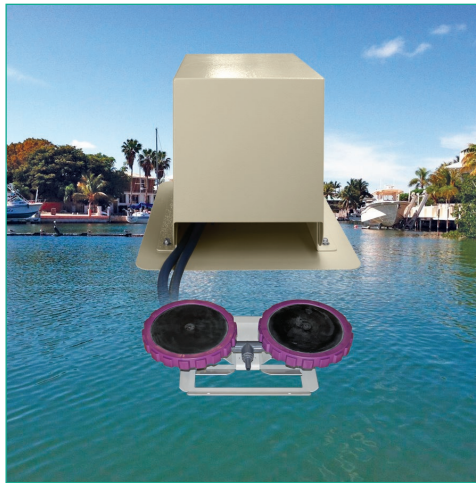
Our experts design the right system for your specific needs. We offer a wide range of high quality Vertex products designed to enhance the health and beauty of your waterway.

INSTALLATION

You can install the aeration systems yourself, our team at Florida Keys Aeration can explain the installation process and answer any questions you may have or we'll do it for you.

MAINTENANCE

Have us do your systems maintenance as an ongoing contract or as needed. We service and repair all major brands of air curtain and aeration equipment throughout the Florida Keys.



DOCKLYFE 1 AERATOR

- ◆ One CoActive AirStation
- ◆ Aerate a basin up to 1.5 acres
- ◆ For use in all canals from 4' to 30' deep
- ◆ 3 cabinet color options
- ◆ One 1/4hp (0.19kW) compressor



DOCKLYFE 2 AERATOR

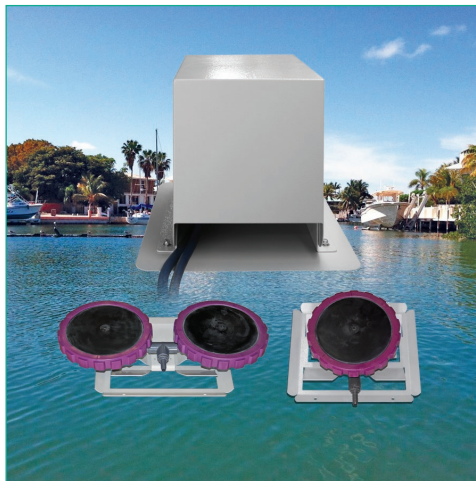
- ◆ Two single AirStations
- ◆ Aerate a basin up to 1.5 acres
- ◆ For use in all canals from 4' to 30' deep
- ◆ 3 cabinet color options
- ◆ One 1/4hp (0.19kW) compressor

FREE AERIAL SITE MAPPING



DOCKLYFE 3 AERATOR

- ◆ Three single AirStations
- ◆ Aerate a basin up to 1.5 acres
- ◆ For use in all canals from 4' to 30' deep
- ◆ 3 cabinet color options
- ◆ One 1/4hp (0.19kW) compressor



DOCKLYFE 4 AERATOR

- ◆ One single and one CoActive AirStation
- ◆ Aerate a basin up to 1.5 acres
- ◆ For use in all canals from 4' to 30' deep
- ◆ 3 cabinet color options
- ◆ One 1/4hp (0.19kW) compressor



MARINE 2HE AERATOR

- ◆ Two CoActive AirStations
- ◆ Aerate a basin approximately 2-3 acres
- ◆ Aerate a short canal around 200 feet long
- ◆ Total pumping capacity of up to 9,800 GPM
- ◆ One 3/4hp (0.56kW) compressor

MARINE AERATION SYSTEMS



MARINE 3HE AERATOR

- ◆ Three CoActive AirStations
- ◆ Aerate a basin approximately 3-4 acres
- ◆ Aerate a linear canal around 300 feet long
- ◆ Total pumping capacity of up to 11,400 GPM
- ◆ One 3/4hp (0.56kW) compressor



MARINE 3+HE AERATOR

- ◆ Three CoActive AirStations
- ◆ Aerate a shallow basin around 3-5 acres
- ◆ Aerate a linear canal around 400 feet long
- ◆ Total pumping capacity of up to 14,300 GPM
- ◆ One 3/4hp (0.56kW) compressor



MARINE 4HE AERATOR

- ◆ Four CoActive AirStations
- ◆ Aerate a shallow basin around 5-7 acres
- ◆ Aerate a linear canal around 400 feet long
- ◆ Total pumping capacity of up to 19,300 GPM
- ◆ Two 3/4hp (1.12kW) compressors

DETAILED AERATION RECOMMENDATIONS



MARINE 5HE AERATOR

- ◆ Five CoActive AirStations
- ◆ Aerate a shallow basin around 5-7 acres
- ◆ Aerate a linear canal around 500 feet long
- ◆ Total pumping capacity of up to 21,000 GPM
- ◆ Two 3/4hp (1.12kW) compressors



MARINE 6HE AERATOR

- ◆ Six CoActive AirStations
- ◆ Aerate a shallow basin around 5-8 acres
- ◆ Aerate a linear canal around 600 feet long
- ◆ Total pumping capacity of up to 22,600 GPM
- ◆ Two 3/4hp (1.12kW) compressors



MARINE 7HE AERATOR

- ◆ Seven CoActive AirStations
- ◆ Aerate a basin around 6-9 acres
- ◆ Aerate a linear canal around 700 feet long
- ◆ Total pumping capacity of up to 27,100 GPM
- ◆ Two 3/4hp (1.12kW) compressors



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