

HIGH PERFORMANCE DIFFUSED AQUAIR® ULTRA SERIES

AquaAir® Ultra provides ponds and lakes with superior aeration, circulation, and destratification. Dissolved oxygen (DO) levels are increased throughout the entire water column with the use of bottom-mounted diffusers. The diffusers employ a super fine micro-bubble technology resulting in the highest diffuser oxygen transfer rate (OTR) available today. The micro-bubbles draw water from the pond floor to the surface where atmospheric Oxygen is absorbed and then Transferred throughout the water column. Additionally, this process provides excellent deterrence to thermalstratification (layers of different temperature within the water).

The diffusers are connected to a revolutionary design enclosure containing one of four compressor sizes—by self-weighted Super Sink air supply tubing. System sizes range from $\frac{1}{3}$ to 2 HP with one to twelve diffusers.



AQUAAIR® ULTRA SINGLE DIFFUSER

AquaAir® Ultra provides ponds and lakes with superior aeration, circulation, and destratification. Dissolved oxygen (DO) levels are increased throughout the entire water column with the use of bottom-mounted diffusers. The diffusers employ a super fine micro-bubble technology resulting in the highest diffuser oxygen transfer rate (OTR) available today. The micro-bubbles draw water from the pond floor to the surface where atmospheric Oxygen is absorbed and then Transferred throughout the water column.

AQUAAIR® ULTRA

AquaAir® Ultra provides ponds & lakes with superior aeration, circulation, and de-stratification. A stainless steel, base mounted enclosure containing up to four compressors delivers the highest air flow rates available. Service is made easy by "tool-less" compressor removal. Weighted Super Sink air tubing supplies air flow to the diffusers while remaining unseen and un-obstructive on the pond bottom. Coated, anti-fouling diffuser membranes utilize micro-bubble technology to synergistically lift water from the pond bottom to the surface where atmospheric oxygen transfer occurs and a subsequent, oxygen enhanced, beneficial circulation is created. AquaAir® Ultra is backed by a 3 year warranty on compressors.

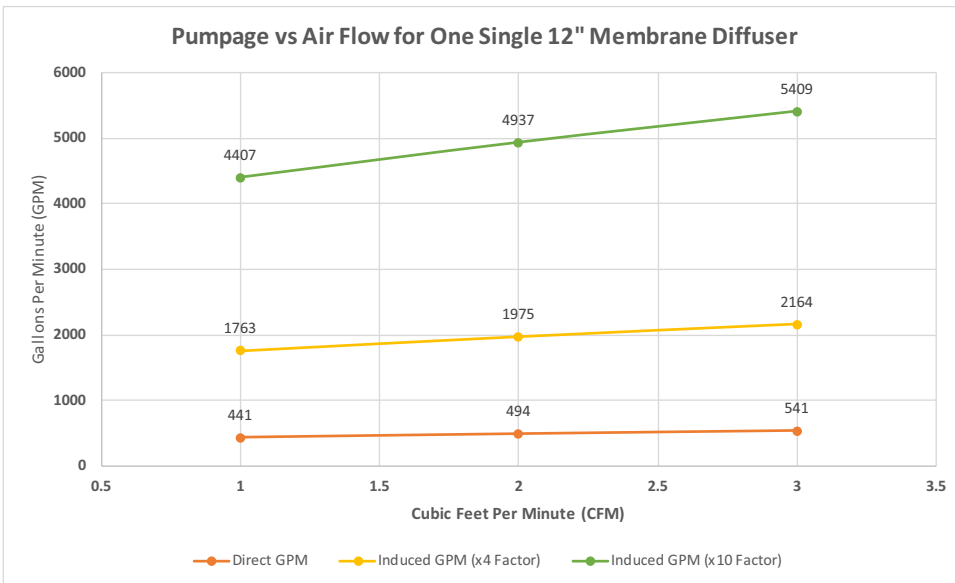


LAKE AND POND BENEFITS

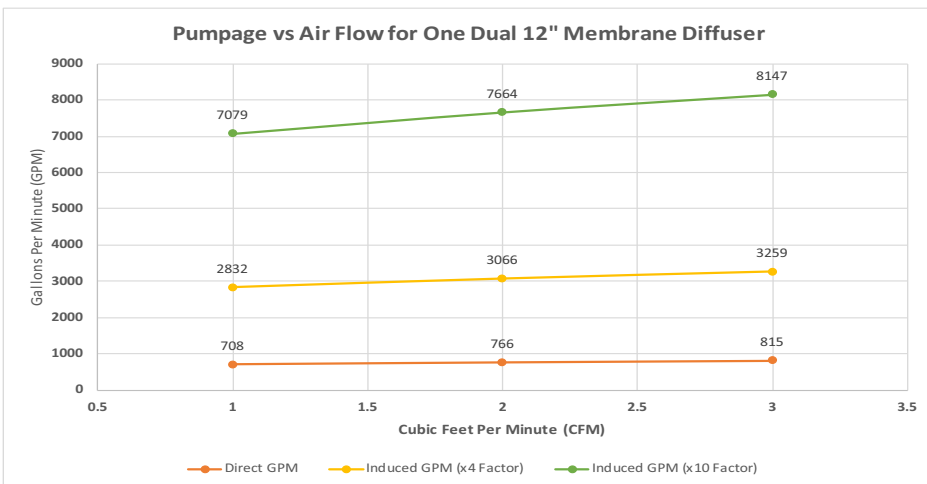
- Entire water column circulation
- Elimination of thermal stratification
- Increased dissolved oxygen levels that stimulate the natural aerobic digestion process thus reducing nutrient levels and associated algal growth
- Elimination of oxygen related fish kills and expansion of the oxygenated habitat and ecosystem
- Reduction of mosquito and aquatic midge infestations
- Elimination of foul odors from undesirable gases
- Reduction of organic bottom sediment
- Preservation of a healthy aquatic ecosystem and an aesthetically pleasing aquascape to view and enjoy through improved water quality



PUMPAGE VS AIR FLOW



AquaMaster® recommends utilization of Induced GPM (x4 Factor) calculation as the minimum industry standard for conservative sizing.



For diffuser performance of less than 1 cfm, recommended induced GPM factor should not exceed 4x factor.



AquaAir® Ultra provides ponds and lakes with superior aeration, circulation, and destratification. Dissolved oxygen (DO) levels are increased throughout the entire water column with the use of bottom-mounted diffusers. The diffusers employ a super fine micro-bubble technology resulting in the highest diffuser oxygen transfer rate (OTR) available today. The micro-bubbles draw water from the pond floor to the surface where atmospheric Oxygen is absorbed and then Transferred throughout the water column.

HIGH PERFORMANCE MEMBRANE DIFFUSER TECHNOLOGY



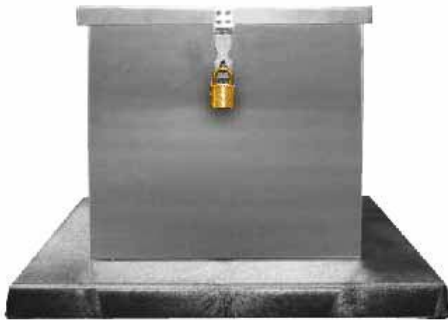
- Hollow base design for sand or gravel weighting
- Large base area for soft bottom sediment
- Self-cleaning, low maintenance construction
- Ultra low back pressure check valve
- Micro-bubble technology
- Five year warranty (Diffusers)
- Single membrane features flexible 12" disc
- Dual membrane features two flexible 12" membrane discs
- Quad membrane features four flexible 12" membrane discs

COMPRESSORS



- 1/3 HP Single Piston Compressor, 120V & 240V Single Phase
- 1/2 HP Dual Piston Compressor, 120V & 240V Single Phase
- Thermal overload motor protection
- 3 Year Warranty on Compressors

COMPRESSOR ENCLOSURES



- Heavy-duty cooling fan circulates air around compressor
- Stainless steel hasp latch with Padlock included
- Stainless steel cover and hardware
- Green, Brown, & White color options available
- Ease of internal accessibility
- Limited lifetime warranty (cooling fan 3 year warranty)
- Outside Dimensions including overhang of cover
AAU 1-3 – 17 L x 15 W x 16.25 H • AAU 4-6 – 21 L x 17 W x 16.25 H
- Outside Dimensions including overhang of cover & external manifold housing
AAU 7-12 – 28.75 L x 24.13 W x 18 H



SUPER SINK AIR TUBING



- Flexible, will not crack or kink even in cold temperatures
- Self-weighted for easy installation and quick sinking
- Sizes available: 1/2" (.58" ID x 1.06" OD) in 100ft, 200ft, & 500ft roll lengths
5/8" (.63" ID x 1.15" OD) in 100ft roll lengths
1" (1.0" ID x 1.70" OD) in 250ft roll lengths
(Consult Factory for Availability)
- Utilizes PVC insert fittings for quick connections
- 15 year warranty

60 Hz

AQUAAIR® ULTRA PERFORMANCE SPECIFICATIONS

| System | # of Diffusers | Cabinet Size | Compressor(s) | Total Amp Draw | Total Air Flow | Air Flow per Diffuser |
|----------------------------|----------------|--------------|---------------|---|----------------|-----------------------|
| AquaAir® Ultra 1 | 1 | Small | (1) ½ HP | 3 - 3.8A @ 120V* 1.1 - 1.5A @ 240V** | 2.4 CFM | 2.4 CFM |
| AquaAir® Ultra 2S | 2 | Small | (1) ½ HP | 3 - 3.8A @ 120V* 1.1 - 1.5A @ 240V** | 2.4 CFM | 1.2 CFM |
| AquaAir® Ultra 2 | 2 | Small | (1) ½ HP | 3.5 - 5A @ 120V* 1.7 - 2.5A @ 240V** | 5 CFM | 2.5 CFM |
| AquaAir® Ultra 3 | 3 | Small | (1) ½ HP | 3.5 - 5A @ 120V* 1.7 - 2.5A @ 240V** | 5 CFM | 1.7 CFM |
| AquaAir® Ultra 3 High Flow | 3 | Medium | (2) ½ HP | 7 - 10A @ 120V* 3.4 - 5A @ 240V** | 10 CFM | 3.3 CFM |
| AquaAir® Ultra 4S | 4 | Small | (1) ½ HP | 3.5 - 5A @ 120V* 1.7 - 2.5A @ 240V** | 5 CFM | 1.25 CFM |
| AquaAir® Ultra 4 | 4 | Medium | (2) ½ HP | 7 - 10A @ 120V* 3.4 - 5A @ 240V** | 10 CFM | 2.5 CFM |
| AquaAir® Ultra 5 | 5 | Medium | (2) ½ HP | 7 - 10A @ 120V* 3.4 - 5A @ 240V** | 10 CFM | 2 CFM |
| AquaAir® Ultra 5 High Flow | 5 | Large | (3) ½ HP | 10.5 - 15A @ 120V*** 5.1 - 7.5A @ 240V** | 15 CFM | 3 CFM |
| AquaAir® Ultra 6 | 6 | Medium | (2) ½ HP | 7 - 10A @ 120V* 3.4 - 5A @ 240V** | 10 CFM | 1.7 CFM |
| AquaAir® Ultra 6 High Flow | 6 | Large | (3) ½ HP | 10.5 - 15A @ 120V*** 5.1 - 7.5A @ 240V** | 15 CFM | 2.5 CFM |
| AquaAir® Ultra 7 | 7 | Large | (3) ½ HP | 10.5 - 15A @ 120V*** 5.1 - 7.5A @ 240V** | 15 CFM | 2.1 CFM |
| AquaAir® Ultra 8S | 8 | Medium | (2) ½ HP | 7 - 10A @ 120V* 3.4 - 5A @ 240V** | 10 CFM | 1.25 CFM |
| AquaAir® Ultra 8 | 8 | Large | (3) ½ HP | 10.5 - 15A @ 120V*** 5.1 - 7.5A @ 240V** | 15 CFM | 1.9 CFM |
| AquaAir® Ultra 8 High Flow | 8 | Large | (4) ½ HP | 14 - 20A @ 120V**** 6.8 - 10A @ 240V** | 20 CFM | 2.5 CFM |
| AquaAir® Ultra 9 | 9 | Large | (3) ½ HP | 10.5 - 15A @ 120V*** 5.1 - 7.5A @ 240V** | 15 CFM | 1.7 CFM |
| AquaAir® Ultra 9 High Flow | 9 | Large | (4) ½ HP | 14 - 20A @ 120V**** 6.8 - 10A @ 240V** | 20 CFM | 2.2 CFM |
| AquaAir® Ultra 10 | 10 | Large | (4) ½ HP | 14 - 20A @ 120V**** 6.8 - 10A @ 240V** | 20 CFM | 2 CFM |
| AquaAir® Ultra 11 | 11 | Large | (4) ½ HP | 14 - 20A @ 120V**** 6.8 - 10A @ 240V** | 20 CFM | 1.8 CFM |
| AquaAir® Ultra 12 | 12 | Large | (4) ½ HP | 14 - 20A @ 120V**** 6.8 - 10A @ 240V** | 20 CFM | 1.7 CFM |

CFM = Cubic Feet per Minute (Air Flow)

*15 Amp Service, NEMA 5-15 Plug
**20 Amp Service, NEMA 5-20 Plug

**15 Amp Service, NEMA 6-15 Plug
***30 Amp Service, NEMA 5-30 Plug

* A pond's surface acreage is determined by multiplying its length in feet by its width in feet then dividing that total by 43,560.
A pond's actual shape and depth should be considered when selecting a system.

SYSTEM SIZING GUIDE

| System | Suggested Pond Size (surface acreage*) | Operating Depths |
|----------------------------|--|-----------------------|
| AquaAir® Ultra 1 | Up to ½ Up to 1 | 4' - 12' 13' - 35' |
| AquaAir® Ultra 2S | Up to ½ | 4' - 8' |
| AquaAir® Ultra 2 | Up to 1 Up to 2 | 4' - 12' 13' - 35' |
| AquaAir® Ultra 3 | Up to 1½ Up to 3 | 4' - 12' 13' - 35' |
| AquaAir® Ultra 3 High Flow | Up to 2 Up to 4 | 4' - 12' 13' - 35' |
| AquaAir® Ultra 4S | Up to 1 | 4' - 8' |
| AquaAir® Ultra 4 | Up to 2 Up to 4 | 4' - 12' 13' - 35' |
| AquaAir® Ultra 5 | Up to 2.5 Up to 5 | 4' - 12' 13' - 35' |
| AquaAir® Ultra 5 High Flow | Up to 3 Up to 6 | 4' - 12' 13' - 35' |
| AquaAir® Ultra 6 | Up to 3 Up to 6 | 4' - 12' 13' - 35' |

| System | Suggested Pond Size (surface acreage*) | Operating Depths |
|----------------------------|--|-----------------------|
| AquaAir® Ultra 6 High Flow | Up to 3.5 Up to 7 | 4' - 12' 13' - 35' |
| AquaAir® Ultra 7 | Up to 3.5 Up to 7 | 4' - 12' 13' - 35' |
| AquaAir® Ultra 8S | Up to 2 | 4' - 8' |
| AquaAir® Ultra 8 | Up to 4 Up to 8 | 4' - 12' 13' - 35' |
| AquaAir® Ultra 8 High Flow | Up to 4.5 Up to 9 | 4' - 12' 13' - 35' |
| AquaAir® Ultra 9 | Up to 4.5 Up to 9 | 4' - 12' 13' - 35' |
| AquaAir® Ultra 9 High Flow | Up to 5 Up to 10 | 4' - 12' 13' - 35' |
| AquaAir® Ultra 10 | Up to 5 Up to 10 | 4' - 12' 13' - 35' |
| AquaAir® Ultra 11 | Up to 5.5 Up to 11 | 4' - 12' 13' - 35' |
| AquaAir® Ultra 12 | Up to 6 Up to 12 | 4' - 12' 13' - 35' |

50 Hz

AQUAAIR® ULTRA PERFORMANCE SPECIFICATIONS

| System | # of Diffusers | Cabinet Size | Compressor(s) | Total Amp Draw | Total Air Flow | Air Flow per Diffuser |
|----------------------------|----------------|--------------|---------------|-------------------|----------------|-----------------------|
| AquaAir® Ultra 1 | 1 | Small | (1) ½ HP | 0.7 – 1.2A @ 220V | 0.06 CMM | 0.06 CMM |
| AquaAir® Ultra 2S | 2 | Small | (1) ½ HP | 0.7 – 1.2A @ 220V | 0.06 CMM | 0.03 CMM |
| AquaAir® Ultra 2 | 2 | Small | (1) ½ HP | 1.4 – 2.0A @ 220V | 0.12 CMM | 0.06 CMM |
| AquaAir® Ultra 3 | 3 | Small | (1) ½ HP | 1.4 – 2.0A @ 220V | 0.12 CMM | 0.04 CMM |
| AquaAir® Ultra 3 High Flow | 3 | Medium | (2) ½ HP | 2.8 – 4.0A @ 220V | 0.24 CMM | 0.08 CMM |
| AquaAir® Ultra 4S | 4 | Small | (1) ½ HP | 1.4 – 2.0A @ 220V | 0.12 CMM | 0.03 CMM |
| AquaAir® Ultra 4 | 4 | Medium | (2) ½ HP | 2.8 – 4.0A @ 220V | 0.24 CMM | 0.06 CMM |
| AquaAir® Ultra 5 | 5 | Medium | (2) ½ HP | 2.8 – 4.0A @ 220V | 0.24 CMM | 0.05 CMM |
| AquaAir® Ultra 5 High Flow | 5 | Large | (3) ½ HP | 4.2 – 6.0A @220V | 0.36 CMM | 0.07 CMM |
| AquaAir® Ultra 6 | 6 | Medium | (2) ½ HP | 2.8 – 4.0A @ 220V | 0.24 CMM | 0.04 CMM |
| AquaAir® Ultra 6 High Flow | 6 | Large | (3) ½ HP | 4.2 – 6.0A @220V | 0.36 CMM | 0.06 CMM |
| AquaAir® Ultra 7 | 7 | Large | (3) ½ HP | 4.2 – 6.0A @220V | 0.36 CMM | 0.05 CMM |
| AquaAir® Ultra 8S | 8 | Medium | (2) ½ HP | 2.8 – 4.0A @220V | 0.24 CMM | 0.03 CMM |
| AquaAir® Ultra 8 | 8 | Large | (3) ½ HP | 4.2 – 6.0A @220V | 0.36 CMM | 0.045 CMM |
| AquaAir® Ultra 8 High Flow | 8 | Large | (4) ½ HP | 5.6 – 8.0A @220V | 0.48 CMM | 0.06 CMM |
| AquaAir® Ultra 9 | 9 | Large | (3) ½ HP | 4.2 – 6.0A @220V | 0.36 CMM | 0.04 CMM |
| AquaAir® Ultra 9 High Flow | 9 | Large | (4) ½ HP | 5.6 – 8.0A @220V | 0.48 CMM | 0.053 CMM |
| AquaAir® Ultra 10 | 10 | Large | (4) ½ HP | 5.6 – 8.0A @220V | 0.48 CMM | 0.048 CMM |
| AquaAir® Ultra 11 | 11 | Large | (4) ½ HP | 5.6 – 8.0A @220V | 0.48 CMM | 0.044 CMM |
| AquaAir® Ultra 12 | 12 | Large | (4) ½ HP | 5.6 – 8.0A @220V | 0.48 CMM | 0.04 CMM |

CMM = Cubic Meters per Minute (Air Flow)

SYSTEM SIZING GUIDE

* A pond's surface acreage is determined by multiplying its length in meters by its width in meters then dividing that total by 10,000. A pond's actual shape and depth should be considered when selecting a system.

| System | Suggested Pond Size (Ha) | Operating Depths |
|----------------------------|--------------------------|---------------------------|
| AquaAir® Ultra 1 | Up to 0.2 Up to 0.4 | 1.2 – 3.7m 4.0 – 10.7m |
| AquaAir® Ultra 2S | Up to 0.2 | 1.2 – 1.9m |
| AquaAir® Ultra 2 | Up to 0.4 Up to 0.8 | 1.2 – 3.7m 4.0 – 10.7m |
| AquaAir® Ultra 3 | Up to 0.6 Up to 1.2 | 1.2 – 3.7m 4.0 – 10.7m |
| AquaAir® Ultra 3 High Flow | Up to 0.8 Up to 1.6 | 1.2 – 3.7m 4.0 – 10.7m |
| AquaAir® Ultra 4S | Up to 0.4 | 1.2 – 1.9m |
| AquaAir® Ultra 4 | Up to 0.8 Up to 1.6 | 1.2 – 3.7m 4.0 – 10.7m |
| AquaAir® Ultra 5 | Up to 1 Up to 2 | 1.2 – 3.7m 4.0 – 10.7m |
| AquaAir® Ultra 5 High Flow | Up to 1.2 Up to 2.4 | 1.2 – 3.7m 4.0 – 10.7m |
| AquaAir® Ultra 6 | Up to 1.2 Up to 2.4 | 1.2 – 3.7m 4.0 – 10.7m |

| System | Suggested Pond Size (Ha) | Operating Depths |
|----------------------------|--------------------------|---------------------------|
| AquaAir® Ultra 6 High Flow | Up to 1.4 Up to 2.8 | 1.2 – 3.7m 4.0 – 10.7m |
| AquaAir® Ultra 7 | Up to 1.4 Up to 2.8 | 1.2 – 3.7m 4.0 – 10.7m |
| AquaAir® Ultra 8S | Up to 0.8 | 1.2 – 1.9m |
| AquaAir® Ultra 8 | Up to 1.6 Up to 3.2 | 1.2 – 3.7m 4.0 – 10.7m |
| AquaAir® Ultra 8 High Flow | Up to 1.8 Up to 3.6 | 1.2 – 3.7m 4.0 – 10.7m |
| AquaAir® Ultra 9 | Up to 1.8 Up to 3.6 | 1.2 – 3.7m 4.0 – 10.7m |
| AquaAir® Ultra 9 High Flow | Up to 2 Up to 4 | 1.2 – 3.7m 4.0 – 10.7m |
| AquaAir® Ultra 10 | Up to 2 Up to 4 | 1.2 – 3.7m 4.0 – 10.7m |
| AquaAir® Ultra 11 | Up to 2.2 Up to 4.4 | 1.2 – 3.7m 4.0 – 10.7m |
| AquaAir® Ultra 12 | Up to 2.4 Up to 4.8 | 1.2 – 3.7m 4.0 – 10.7m |