



Air-O-Lator
Aquarian Commercial
Floating Aerator
Specifications

MODEL:

The model shall be an AQC-___ Air-O-Lator Aquarian Commercial floating aerator.

Performance Data:

The AQC-___ Aquarian Commercial floating aerator shall produce a spray height of ___ inches/___ centimeters and a diameter of ___ feet/___ meters.

The AQC-___ shall produce a pumping volume of ___ gallons/___ liters per minute.

The AQC-___ shall produce a standard oxygen transfer rate (SOTR) of ___ pounds/___ kg of oxygen per hour.

The AQC-___ has a minimum operating depth of ___ inches/___ meters.

MODEL	HP	VOLTS	PH	HZ	MTR/S.F. AMPS	MIN. HT.	MIN. DIA.	GPM/LPM	SOTR/HR (lbs./kg.)	MIN. OP. DEPTH
AQC-1	1	230	1	60	8.2/9.8	8"/20.3CM	6'/1.82M	1475/5583	3.2/1.5	24"/.61M
AQC-15	1.5	230	3	60	4.9/5.9	8"/20.3CM	6'/1.82M	1475/5583	3.2/1.5	24"/.61M
AQC-15	1.5	460	3	60	2.5/3.0	8"/20.3CM	6'/1.82M	1475/5583	3.2/1.5	24"/.61M
AQC-2	2	230	1	60	10.0/13.2	8"/20.3CM	6'/1.82M	1700/6435	5.5/2.49	36"/.9M
AQC-2	2	230	3	60	6.7/8.1	8"/20.3CM	6'/1.82M	1700/6435	5.5/2.49	36"/.9M
AQC-2	2	460	3	60	3.4/4.1	8"/20.3CM	6'/1.82M	1700/6435	5.5/2.49	36"/.9M
AQC-3	3	230	1	60	14.0/17.0	8"/20.3CM	8'/2.43M	2700/10220	6.0/2.72	36"/.9M
AQC-3	3	230	3	60	9.5/10.9	8"/20.3CM	8'/2.43M	2700/10220	6.0/2.72	36"/.9M
AQC-3	3	460	3	60	4.8/5.5	8"/20.3CM	8'/2.43M	2700/10220	6.0/2.72	36"/.9M

Motor:

The motor shall be a ___ horsepower, ___ volt, ___ phase, 60 Hz, 3450 RPM 4 inch Franklin Electric submersible motor. Motor amperage is ___ with service factor max amperage of ___. The motor shall be rated for continuous duty. The motor shall be totally enclosed, water-cooled, water-lubricated and corrosion resistant. The motor shall equal or exceed standard NEMA specifications. The motor shall be non-hygroscopic and hermetically sealed. Motor insulation shall equal or exceed standard NEMA Class H. The motor shall be UL recognized and CSA certified.

Drive Structure:

The motor mount shall be constructed of stainless steel and the diffuser shall be constructed of a polycarbonate reinforced plastic material. The design shall be such that the liquid spray shall be discharged at a 90 degree angle to the motor shaft and over a 360 degree omni directional pattern in a horizontal plane. There shall be a junction box made of corrosion resistant materials in LB configuration, with splice connectors, all of which are UL recognized and CSA certified. The design shall allow ease of installation and removal of the aerator from the float without the need of fasteners securing the aerator to the float. The frame shall provide maximum rigidity and stability with minimum flow resistance. All fasteners shall be a minimum of 316 stainless steel alloy.

Propeller:

The propeller shall be precision molded non-corrosive material and shall be specifically designed for the application intended. The propeller shall not lose its pitch or shape during usage. The propeller shall be streamlined to prevent cavitation, reduce drag and shall have trailback blades to reduce fouling. The propeller shall be dynamically and hydraulically balanced to assure equalization of load and reduce vibration while in operation.

Flotation:

The flotation unit shall be square in shape for stability with a hole in the center for mounting the aerating unit. The float shall be rotationally molded of polyethylene with UV inhibitors and shall not be less than 1/8"(.125) sectional thickness. The float shall be filled with closed cell, non-hygroscopic, pressure molded polystyrene. The flotation shall be capable of supporting no less than two (2) times the weight of the unit. The float shall be unconditionally guaranteed not to sink or capsize due to high winds or ice.

Electrical Service Cable (service from the water's edge to the aerator)

The aerator shall be supplied with a minimum of 100 feet/15.2 meters of AWG#12 gauge four (4) conductor stranded copper wire. The service cable shall be type SJEOw, SEOOW, SEOW, SJOW or SOOW insulated to resist moisture, wicking and cracking. The service cable shall be black. The service cable shall be one continuous length. Each unit shall have a water tight removable power cord at the junction box located on the unit. Additional cable lengths and gauges can be provided in 50 foot/15.2 meters increments.

Operating Controls:

The standard operating controls supplied with the AQC-1 Aquarian Commercial aerator is a Franklin Electric 1 horsepower, 230 volt, 1phase, 60-Hz CRC control panel with start and run capacitors mounted in a NEMA 3R enclosure. AQC-2 through AQC-3 Aquarian Commercial aerator is a Franklin Electric 2 or 3 horsepower, 230 volt, 1 phase, 60Hz, Deluxe control box with start and run capacitors and a magnetic contactor mounted in a NEMA 3R enclosure. The Franklin control box is UL and CSA listed.

The 3 phase equipment is sold separately with the appropriately sized combination manual I.E.C. type motor starter protector with a built in heater element to provide overload protection. This optional motor starter protector is UL recognized and CSA certified and will be housed in a UL CSA certified NEMA 3R enclosure with off/on switch.

Testing:

The AQC-___ Aquarian Commercial aerator will be tested under load prior to shipping to certify correct operation and performance. Test results are provided.

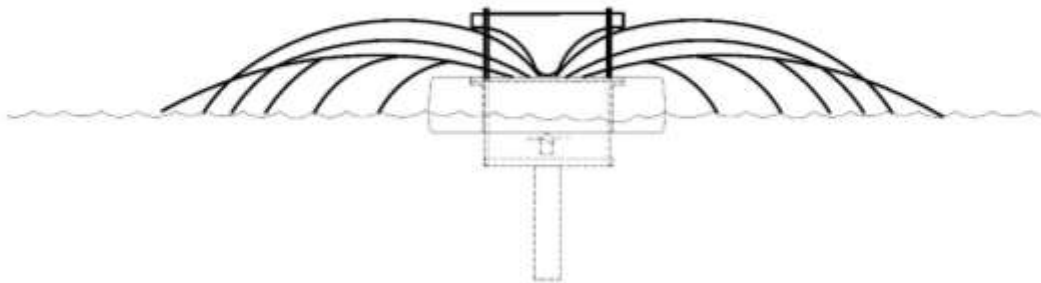
Warranty:

The AQC-___ Aquarian Commercial aerator has a 1 year limited warranty to be free of defects in material and workmanship.



AIR-O-LATOR

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AQUARIAN COMMERCIAL

HP	VOLTAGE	PHASE	HZ	MAX AMPS	MIN. HT.	MIN DIA.	GPM/LPM	SQTR/HR lbs./kg.	MIN OP. DEPTH
1	230	1	60	9.8	6"/.15CM	6'/1.8M	1700/6,435	3.2/1.5	36"/.92M
1 1/2	230	3	60	5.9	6"/.15CM	6'/1.8M	1700/6,435	3.2/1.5	36"/.92M
1 1/2	460	3	60	3.0	6"/.15CM	6'/1.8M	1700/6,435	3.2/1.5	36"/.92M
2	230	1	60	13.2	8"/.20CM	6'/1.8M	1700/6,435	5.5/2.49	36"/.92M
2	230	3	60	8.1	8"/.20CM	6'/1.8M	1700/6,435	5.5/2.49	36"/.92M
2	460	3	60	4.1	8"/.20CM	6'/1.8M	1700/6,435	5.5/2.49	36"/.92M
3	230	1	60	17.0	8"/.20CM	8'/2.4M	2700/10,220	6.0/2.72	36"/.92M
3	230	3	60	10.9	8"/.20CM	8'/2.4M	2700/10,220	6.0/2.72	36"/.92M
3	460	3	60	5.5	8"/.20CM	8'/2.4M	2700/10,220	6.0/2.72	36"/.92M

NOTES:

1. DO NOT SCALE DRAWINGS.
2. ALL ELECTRICAL INSTALLATIONS MUST MEET LOCAL ELECTRICAL CODES.
3. INSTALLATION MUST BE COMPLETED IN ACCORDANCE WITH MANUFACTURE'S SPECIFICATIONS.
4. PLEASE VISIT WWW.CADdetails.COM/INFO FOR PRODUCT AND COMPANY INFORMATION