

Aspiro™

OPERATION

The ASPIRO™ is a surface mounted self-aspirating propeller type aerator that draws atmospheric air below the water's surface and transfers it via a hollow induction shaft into a highly mixed horizontal water stream not unlike the wake of a boat. This efficiently creates fine bubbles and mixes air and water into any lagoon, tank or other basin that requires it.

MIXING CAPABILITIES

The aspirator aerator is arguably the best mixing aerator available in the world. It can be used alone or in multiples, or in combination with other types of aerators to provide optimal efficiencies for particular applications.

Multiple ASPIRO™ installations can completely or partially mix very large volumes of water at the lowest installed power, and provide excellent turndown capabilities.

TREATMENT EFFICIENCIES

This means that the power put into your ASPIRO™ aeration ensures oxygen distribution throughout even the largest basins - something many other types of aerators fall short on. This results in better treatability of water or wastewater at lower installed power by more effective use of available volume in the treatment plant.

There is little benefit in installing what appears on paper to be an extremely efficient aerator that, in the end, only effects one small portion of your plant and leaves large volumes un-aerated and unmixed.

ODOUR CONTROL

The ASPIRO™ aerator is particularly useful where there are high strength wastes and odour concerns. It's subsurface action negates the possibility of splashing and associated vapour borne odours common to other surface aerators.

FLEXIBILITY OF INSTALLATION

The ASPIRO™ ranges from 0.5 to 75.0 kW and can be mounted on floats, fixed to a bridge or wall etc. ASPIRO™ can also be easily installed in fluctuating water level situations. Options such as stainless steel flotation assemblies, work platforms (on larger units), anchoring and cabling information are all available on request.

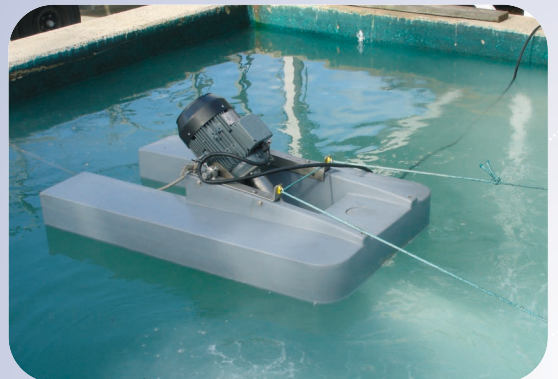
FLEXIBILITY OF APPLICATION

Multiple small units can be installed to create an oxygenated 'odour cap' on very large and deep basins at very low required power, or conversely can aerate and circulate very shallow basins where other types of aeration cannot be used.

Larger multiple unit installations can suspend the heaviest solids loads in the deepest basins. From full solids suspension applications to the gentlest circulation requirement - there is an ASPIRO™ installation to suit.

LOW NOISE

The ASPIRO™ is also arguably the quietest surface aerator available today as aerating and mixing action takes place below the water's surface in all cases - i.e. no splashing noise. There is also no gearbox, so no low frequency noises associated with reduction drives common to many other units.



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AERATION AND WASTEWATER TREATMENT EQUIPMENT EXPERTS

MAINTENANCE

Maintenance on the ASPIRO™ is inexpensive and extremely simple. It can be carried out in the field for the most part by unskilled personnel, with little plant downtime experienced.

AUSTRALIAN MADE - WORLD CLASS

The entire ASPIRO range is designed and manufactured wholly within Australia with local parts support - and has been exported all over the world. There are now some thousands of units installed.

For further information or an application design using ASPIRO™, contact PCPL or your local ASPIRO™ representative.



ASPIRO SPECIFICATIONS

ASPIRO Aerators AQ-1, AQ-2, AQ-3

Ranges (50 Hz, 415 V models typical values stated, 60 Hz and variable voltages data available on request)

Model No.	kW	rpm	FLC (Amps)	Noise dB(A)	Weights (kg) Aerator Only	Float Assembly (kg)	Combined (kg)	Flotation Type
AQ-1-1.5	1.5	2870	3.2	66	35	30	65	U-FLOAT
AQ-1-2.2	2.2	2850	4.4	66	38	20	68	U-FLOAT
AQ-1-3.0	3.0	2890	5.7	60	40	20	70	U-FLOAT
AQ-1-4.0	4.0	2870	7.2	61	50	20	80	U-FLOAT
AQ-1-5.5	5.5	2910	9.9	62	60	20	90	U-FLOAT
AQ-1-7.5	7.5	2900	13.3	62	65	20	95	U-FLOAT
AQ-2-7.5	7.5	2900	13.3	62	85	120	205	3-FLOAT
AQ-2-11.0	11.0	2940	19.6	68	120	120	240	3-FLOAT
AQ-2-15.0	15.0	2940	26.2	68	125	120	245	3-FLOAT
AQ-2-18.5	18.5	2940	32.0	68	135	120	255	3-FLOAT
AQ-3-22.0	22.0	1470	41.0	66	250	220	470	4-FLOAT
AQ-3-30.0	30.0	1465	53.0	65	365	250	615	5-FLOAT
AQ-3-37.0	37.0	1470	65.0	66	420	250	670	5-FLOAT
AQ-3-45.0	45.0	1470	79.0	67	470	325	795	6-FLOAT
AQ-3-55.0	55.0	1470	96.0	67	520	325	845	6-FLOAT
AQ-3-75.0	75.0	1475	128.0	69	600	325	925	6-FLOAT

* Note : Specs are correct at time of publication, but may be changed at any time - please confirm specification data with PCPL or your local representative

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