



# AQUASYSTEMS INTERNATIONAL NV



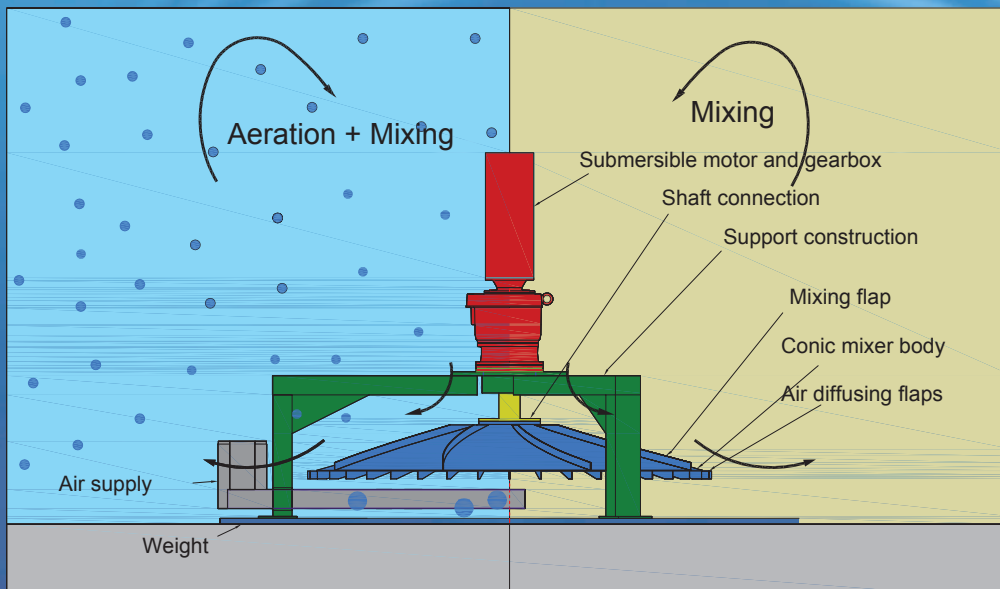
## AQUA TURBO® AER-GS

Low speed submersible aerator / mixer

- Combined aerator / mixer
- Mixing capacity is maintained even when blower is shut off and same airbubble distribution at lower blower frequency. The aeration and mixing efficiency is practically Independent of the airflow
- High mixing capacity : No dead zones
- High  $\alpha$ -factor : Minimum coalescence of airbubbles.
- High oxygen transfer, also at medium and high MLSS
- The possibility of separate mixing/aeration is efficient for the oxygen regulation, for exemple SBR/MBR-reactors.
- Low headlosses : Relatively low pressure and blower-power in relation to the air flow
- Low noise
- Robust construction
- Power from 1.1 kW to 30kW
- Over 360 degrees evenly distributed airflow via the cone-shaped mixer body
- No clogging due to the cone shaped mixer and the central air inlet
- Heavy duty gearbox
- Simple installation : Basin does not have to be emptied
- Rental availability
- Possible connection to existing blowers
- Aerator can be equipped with extended legs to stand over obstructions like piping, diffusers, ...



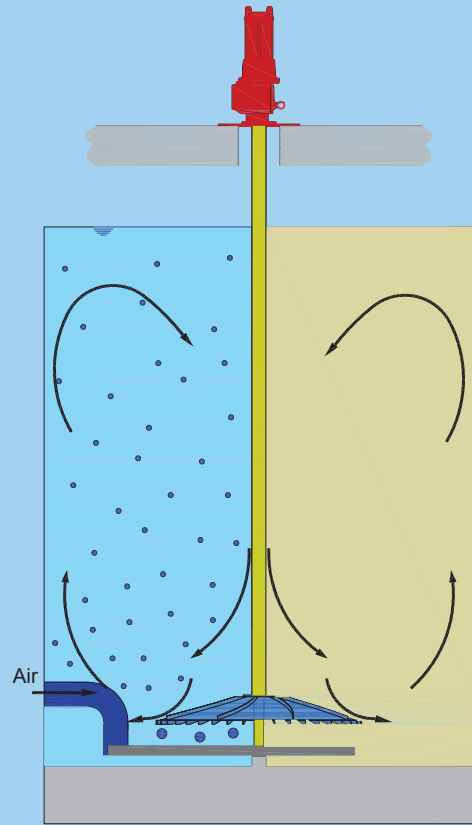
- Execution as mixer alone is also possible : **MIX-GS**



The AER-GS is the ideal combination of an aerator and a mixer. It can be used as an aerator and a mixer together, or it can be used as a mixer only.

## Typical executions

The AER-GS is available with submersible motor/gearbox or with gearbox on top of a walkway, an extended shaft and bottom bearing.



## Basic Data

| <i>Motor power</i> | <i>Impeller diameter</i> | <i>R.P.M.</i> | <i>Maximum Airflow</i>        |
|--------------------|--------------------------|---------------|-------------------------------|
| 30 kW              | 2300 - 3000mm            | 42 - 30.5     | 2500 - 3250 m <sup>3</sup> /h |
| 22 kW              | 2300 - 3000 mm           | 37.2 - 27     | 2000 - 2600 m <sup>3</sup> /h |
| 18.5 kW            | 2300 - 3000mm            | 35 - 23       | 1600 - 2050 m <sup>3</sup> /h |
| 15 kW              | 2300 - 3000mm            | 32 - 21       | 1400 - 1800 m <sup>3</sup> /h |
| 11 kW              | 2300 - 3000mm            | 28 - 17.5     | 1200 - 1550m <sup>3</sup> /h  |
| 7.5 kW             | 2000 - 2500mm            | 32.8 - 22.5   | 1000 - 1250 m <sup>3</sup> /h |
| 5.5 kW             | 2000 - 2500mm            | 28.5 - 18.5   | 900 - 1100 m <sup>3</sup> /h  |
| 4 kW               | 2000 - 2500mm            | 23.6 - 16     | 750 - 900 m <sup>3</sup> /h   |
| 3 kW               | 1500 - 2000 mm           | 34.48 - 20.5  | 600 - 800 m <sup>3</sup> /h   |
| 2,2 kW             | 1500 - 2000 mm           | 30.5 - 17     | 500 - 650 m <sup>3</sup> /h   |
| 1,5 kW             | 1500 - 2000 mm           | 25.3 - 14     | 400 - 500 m <sup>3</sup> /h   |
| 1,1 kW             | 1500 - 2000 mm           | 22.3 - 10     | 350 - 450 m <sup>3</sup> /h   |

All values are indicative. Aquasystems International NV reserves the right to adjust these values at any time.

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