## Product description

- Direct drive high efficiency surface aerator with optimized centrifugal impeller
- Micro bubble formation due to optimal transfer of kinetic energy into the water surface
- High oxygen dispersion over large surfaces, optimized mixing capacity even in deep basins

- No baffling in the tank needed, no surging
- Simple and quick installation
- Low investment cost for the complete installation


## Materials

- Motor up to 30 kW : epoxy coated, aluminium
- Motor from 37 kW: epoxy coated, cast iron
- Float + cone / cross: AISI304
- Motor flange support: AISI304
- Impeller: AISI304
(other materials on request)


## Accessories

- Motor with heater
- Cone extensions for deeper basins
- Mooring cables and springs
- Mooring anchors or piles
- Mooring posts
- Anti-erosion-plate for lagoons
- Cable floats


## Working principle

The HSA aspirates the water from the bottom and sprays it back on the surface. The spray is horizontally injected into the water surface over $360^{\circ}$ and the turbulence creates micro bubbles which are pushed downwards. The result is a maximum oxygen transfer efficiency. The flow pattern generates a perfect oxygen dispersion and full homogenization even in deep basins and on large surfaces.


Dimensions and Motor Data ${ }^{1}$

| Aerator <br> Type | Motor power [kW] | Rated voltage [V] | Rated current ${ }^{2}$ [A] | Rated <br> speed <br> [ $\mathrm{min}^{-1}$ ] | $\varnothing$ <br> Float <br> [mm] | Standard height [mm] | Weight <br> [kg] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HSA-030 | 3,0 | 400 | 5,9 | 1460 | 1000 | 1398 | 132 |
| HSA-040 | 4,0 |  | 7,9 | 1460 | 1000 | 1418 | 136 |
| HSA-055 | 5,5 |  | 10,5 | 1470 | 1250 | 1872 | 208 |
| HSA-075 | 7,5 |  | 14,3 | 1470 | 1250 | 1872 | 210 |
| HSA-110 | 11,0 |  | 20,5 | 1475 | 1500 | 2151 | 339 |
| HSA-150 | 15,0 |  | 28,5 | 1475 | 1500 | 2179 | 355 |
| HSA-185 | 18,5 |  | 35,0 | 1470 | 1800 | 2411 | 468 |
| HSA-220 | 22,0 |  | 41,0 | 1470 | 1800 | 2459 | 475 |
| HSA-300 | 30,0 |  | 55,0 | 1470 | 2000 | 2871 | 650 |
| HSA-370 | 37,0 |  | 66,0 | 1478 | 2100 | 2944 | 805 |
| HSA-450 | 45,0 |  | 80,0 | 1478 | 2100 | 3004 | 842 |
| HSA-550 | 55,0 |  | 96,0 | 1482 | 2300 | 3246 | 1039 |

## Process Data ${ }^{1}$

$\left.\begin{array}{|c|c|c|c|c|c|c|c|}\hline \text { Aerator } & \begin{array}{c}\text { Motor } \\ \text { power }\end{array} & \begin{array}{c}\text { SOTR }_{\text {max }} \\ \text { in clean }^{\text {water }^{3}}\end{array} & \begin{array}{c}\varnothing \\ \text { High } \\ \text { turbulent } \\ \text { surface }\end{array} & \begin{array}{c}\text { Flow } \\ \text { influence in } \\ \text { clean water } \\ {[\mathrm{m}]}\end{array} & \begin{array}{c}\varnothing \\ \text { Oxygen } \\ \text { dispersion }\end{array} & \begin{array}{c}\text { Max. water } \\ \text { level with } \\ \text { standard } \\ \text { cone } \\ {[\mathrm{m}]}\end{array} & \begin{array}{c}\text { Max. water } \\ \text { level with } \\ \text { extended } \\ \text { cone }\end{array} \\ \text { [m] }\end{array}\right]$

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[^0]:    ${ }^{1}$ All values are indicative. ATB WATER GmbH reserves the right to adjust these values at any time without prior notice.
    ${ }^{2}$ Values valid for power supply $400 \mathrm{~V} / 50 \mathrm{~Hz}$. The working range is from 380 to 415 V , amps value may differ.
    ${ }^{3}$ Values are indicative, for a clean water efficiency of $1,5 \mathrm{~kg} \mathrm{O}_{2} / \mathrm{kWh}(+/-10 \%)$ acc. to the EN-12255-15.

