

aquaturbo® AER-AS Model Range

Operational Water Levels + Zones

Model Designator

Example: **AER-AS 3000-24**

AER-AS = Floating Surface Aerator

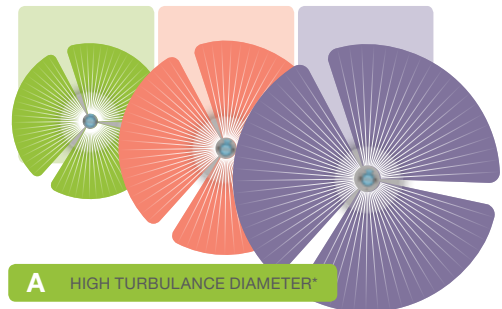
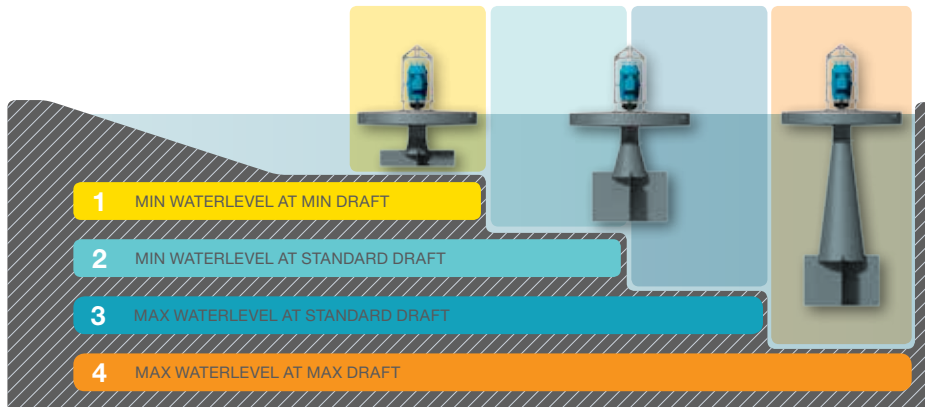
3000 = 30kW **24** = 4-Pole, ±1500rpm

WATER LEVELS

| MODEL | kW | rpm | WATER LEVELS | | | |
|--------------------------------------|------|------|--------------|------|------|------|
| | | | 1* | 2* | 3 | 4 |
| | | | m | m | m | m |
| SERIES 24 4-Pole, ±1500rpm | | | | | | |
| AER-AS 0075-24 | 0.75 | 1455 | 0.63 | 0.98 | 1.80 | 2.80 |
| AER-AS 0110-24 | 1.1 | 1460 | 0.69 | 1.00 | 1.90 | 2.90 |
| AER-AS 0150-24 | 1.5 | 1455 | 0.71 | 1.05 | 2.05 | 3.05 |
| AER-AS 0220-24 | 2.2 | 1440 | 0.74 | 0.98 | 2.20 | 3.20 |
| AER-AS 0300-24 | 3 | 1440 | 0.74 | 1.06 | 2.40 | 3.40 |
| AER-AS 0400-24 | 4 | 1450 | 0.80 | 1.11 | 2.50 | 3.50 |
| AER-AS 0550-24 | 5.5 | 1465 | 0.85 | 1.26 | 2.60 | 3.60 |
| AER-AS 0750-24 | 7.5 | 1465 | 0.90 | 1.33 | 2.80 | 3.80 |
| AER-AS 1100-24 | 11 | 1470 | 1.00 | 1.46 | 3.00 | 4.00 |
| AER-AS 1500-24 | 15 | 1470 | 1.08 | 1.53 | 3.20 | 4.70 |
| AER-AS 1850-24 | 18.5 | 1470 | 1.10 | 1.73 | 3.30 | 4.80 |
| AER-AS 2200-24 | 22 | 1475 | 1.10 | 1.83 | 3.40 | 4.90 |
| AER-AS 3000-24 | 30 | 1480 | 1.20 | 2.14 | 3.60 | 5.10 |
| AER-AS 3700-24 | 37 | 1480 | 1.24 | 2.08 | 3.80 | 5.30 |
| AER-AS 4500-24 | 45 | 1480 | 1.26 | 2.16 | 3.90 | 5.40 |
| AER-AS 5500-24 | 55 | 1480 | 1.38 | 2.30 | 4.00 | 5.50 |
| SERIES 16 6-Pole, ±1000rpm | | | | | | |
| AER-AS 0750-16 | 7.5 | 975 | 1.00 | 1.45 | 2.90 | 3.90 |
| AER-AS 1100-16 | 11 | 975 | 1.09 | 1.68 | 3.10 | 4.10 |
| AER-AS 1500-16 | 15 | 975 | 1.10 | 1.75 | 3.30 | 4.80 |
| AER-AS 1850-16 | 18.5 | 975 | 1.15 | 2.11 | 3.40 | 4.90 |
| AER-AS 2200-16 | 22 | 980 | 1.20 | 2.13 | 3.55 | 5.05 |
| AER-AS 3000-16 | 30 | 985 | 1.20 | 2.17 | 3.80 | 5.30 |
| AER-AS 3700-16 | 37 | 985 | 1.26 | 2.28 | 3.90 | 5.40 |
| AER-AS 4500-16 | 45 | 990 | 1.35 | 2.35 | 4.05 | 5.55 |
| AER-AS 5500-16 | 55 | 990 | 1.49 | 2.47 | 4.20 | 5.95 |
| AER-AS 7500-16 | 75 | 990 | 1.60 | 2.86 | 4.50 | 6.25 |
| AER-AS 9000-16 | 90 | 990 | 1.60 | 3.05 | 4.65 | 6.40 |
| AER-AS 11000-16 | 110 | 990 | 1.90 | 2.95 | 4.80 | 6.55 |
| AER-AS 13200-16 | 132 | 990 | 1.90 | 2.93 | 5.00 | 6.75 |
| SERIES 12 8-Pole, ±750rpm | | | | | | |
| AER-AS 3700-12 | 37 | 740 | 1.49 | 2.39 | 4.20 | 5.70 |
| AER-AS 4500-12 | 45 | 740 | 1.53 | 2.47 | 4.35 | 5.85 |
| AER-AS 5500-12 | 55 | 740 | 1.79 | 2.89 | 4.55 | 6.30 |
| AER-AS 7500-12 | 75 | 740 | 1.85 | 2.99 | 4.80 | 6.55 |
| AER-AS 9000-12 | 90 | 740 | 2.10 | 3.41 | 5.00 | 6.75 |
| AER-AS 11000-12 | 110 | 745 | 2.14 | 3.46 | 5.20 | 6.95 |
| AER-AS 13200-12 | 132 | 745 | 2.25 | 3.64 | 5.40 | 7.15 |
| AER-AS 16000-12 | 160 | 745 | 2.32 | 3.76 | 5.60 | 7.35 |
| AER-AS 20000-12 | 200 | 745 | 2.39 | 3.89 | 5.90 | 7.65 |

ZONES

| ZONES | | |
|-------|------|-----|
| A* | B | C |
| m | m | m |
| 2.5 | 7 | 20 |
| 3.5 | 8 | 24 |
| 4.5 | 9 | 28 |
| 5.5 | 12 | 45 |
| 6.5 | 13 | 45 |
| 8 | 14 | 47 |
| 9.5 | 15 | 49 |
| 10 | 16 | 52 |
| 10.5 | 19 | 61 |
| 11 | 22 | 70 |
| 11.5 | 24 | 75 |
| 12 | 25 | 80 |
| 13 | 25.5 | 86 |
| 14 | 26 | 90 |
| 15 | 26.5 | 95 |
| 16 | 27 | 100 |
| 10.5 | 18 | 51 |
| 11.5 | 20 | 63 |
| 12 | 23 | 72 |
| 12.5 | 25 | 78 |
| 13 | 27 | 84 |
| 14 | 31 | 95 |
| 14.5 | 33 | 100 |
| 15 | 35 | 107 |
| 15.5 | 40 | 116 |
| 16.5 | 44 | 128 |
| 17 | 46 | 137 |
| 17.5 | 50 | 143 |
| 18 | 52 | 145 |
| 15 | 34 | 103 |
| 15.5 | 36 | 110 |
| 16 | 41 | 119 |
| 17 | 46 | 128 |
| 17.5 | 49 | 135 |
| 18 | 53 | 144 |
| 18 | 57 | 150 |
| 18.5 | 60 | 154 |
| 19 | 62 | 157 |



- A** HIGH TURBULENCE DIAMETER*
 - B** COMPLETE MIX DIAMETER
 - C** OXYGEN DISPERSION DIAMETER
- * Zone A is min basin diameter and min aerator centres.

★ Min water levels 1 and 2 are draft plus 0.1m

Please note: Final aerator selection and exact draft is dependent upon many factors including basin construction (concrete, earthen, membrane liner or other), water level fluctuation; nature and degree of settled deposits, process objectives (complete mix, partial mix, laminar mix or other) and whether the influent is screened. An Anti-erosion Plate is often specified for operation in shallow earthen or membrane lined basins and when settled deposits are present.

Please note: Zones A, B and C are average values depending on basin dimensions, water levels, solid concentration, operational hours per day and reactor configuration.