



**Aerator Pump**

## MARSHALLING THE POWER OF TECHNOLOGY TO PROVIDE COST EFFECTIVE PUMPING SOLUTIONS

**G**envik is one of the emerging leaders in the world with the capability and the resources to provide pumping solutions that are not only cost effective but contributes to better productivity. As a technology oriented company Genvik has made major investments to stay on the cutting edge of pump manufacture. While the focus is on industrial pumps, Genvik has also developed pumping systems for diverse applications.

Genvik pumps are manufactured at ISO 9001&14001 facilities, equipped with state of art testing equipments and highly sophisticated machinery. Design and manufacture are carried out under digital environment for zero defect product turn out.

Backed by strong customer service and a willingness to listen to customer perceptions and needs, Genvik is a name to reckon with in the world of pumps.

## VISION

To always stay on the cutting edge of pump and other accessories manufacture, with special emphasis on industrial pumps, to ensure that customers across the globe enjoy the benefits of our efforts to provide world class products.

## MISSION

By embracing technology coupled with innovative thinking, we will meet customer expectations for high performance products with affordability as a key factor. We seek to do it by staying open to the latest developments in the field, by being proactive and optimistic and through teamwork, resourcefulness and commitment.

# C O N T E N T S

## **SUBMERSIBLE AERATOR**

|                            |   |
|----------------------------|---|
| Description & Applications | 3 |
| Diffuser Type Aerator      | 4 |
| Jet Type Aerator           | 6 |





Genvik aerators are one of the core products in the water aeration process for multi applications. We manufacture two type of aerators diffuser type and jet type. They are used based upon the applications and customer requirements.

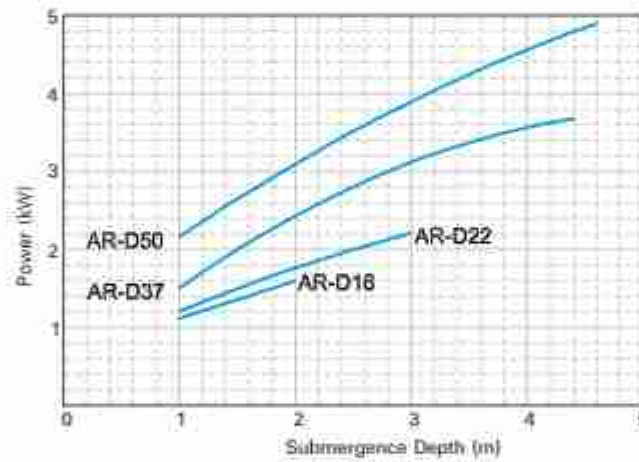
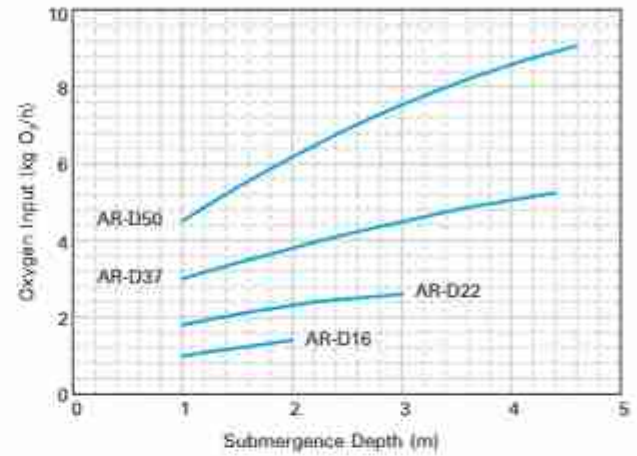
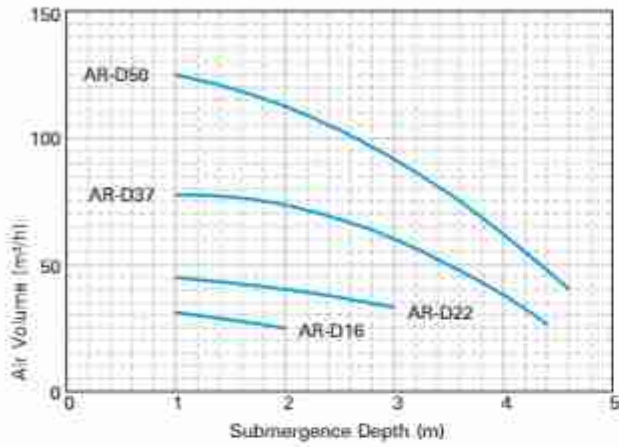
Water aeration is often required in water bodies that suffer from hypoxic or anoxic conditions, often caused by upstream human activities such as sewage discharges, agricultural run-off or over-baiting a fishing lake. Aeration can be achieved through the infusion of air into the bottom of the lake, lagoon or pond or by surface agitation from a fountain or spray-like device to allow for oxygen exchange at the surface and the release of gases such as carbon di oxide, methane or hydrogen sulfide.

Dissolved oxygen (DO) is a major contributor to water quality. Not only do fish and most other aquatic animals need it, but aerobic bacteria help decompose organic matter. When oxygen concentrations become low, anoxic conditions may develop which can decrease the ability of the water body to support life.

#### APPLICATIONS

- Municipal Sewage
- Aquaculture
- Irrigation and Agriculture
- Water treatment
- Industrial Wastewater Treatment

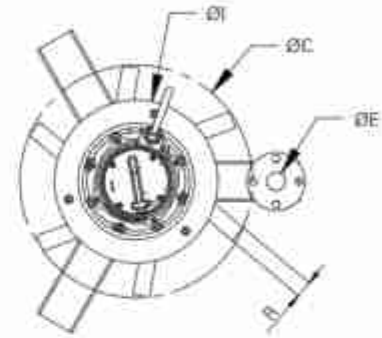
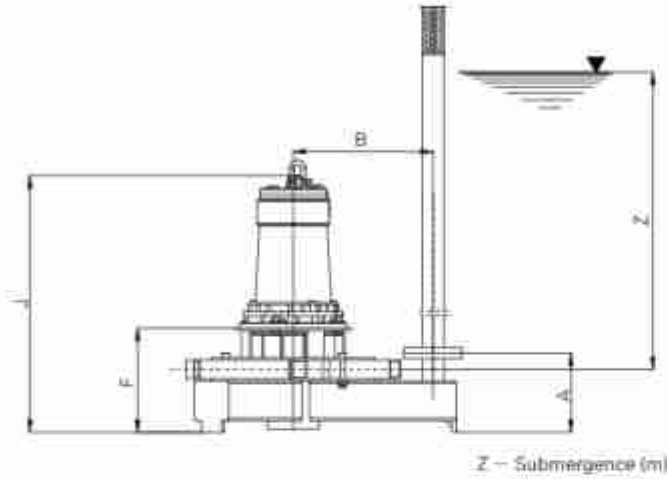
## SUBMERSIBLE PUMPS WITH DIFFUSER TYPE AERATOR DEVICE



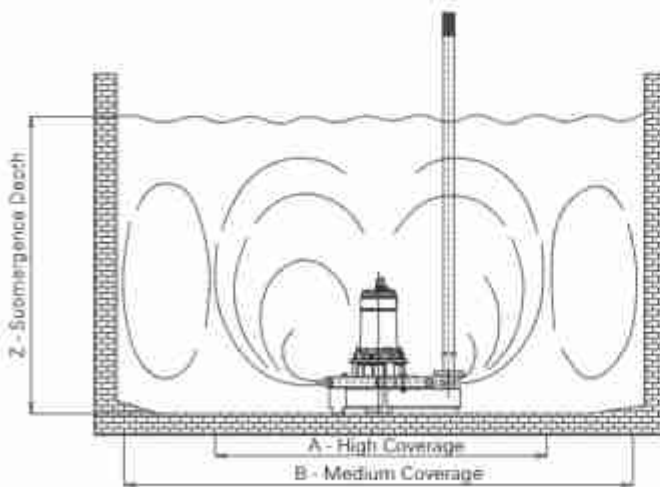
Power Curve

| Model  | Power (kW) | Min-Max Water Depth (m) | Air Inlet Pipe diameter (mm) | Maximum Intake of Air (m³/h) | Oxygen Transfer Capacity (kg O₂/h) | Weight (kg) |
|--------|------------|-------------------------|------------------------------|------------------------------|------------------------------------|-------------|
| AR-D16 | 1.6        | 1 - 2                   | 40                           | 30                           | 1.4 - 1                            | 65          |
| AR-D22 | 2.2        | 1 - 3                   | 50                           | 45                           | 2.6 - 1.8                          | 75          |
| AR-D37 | 3.7        | 1 - 4.4                 | 65                           | 77                           | 5.2 - 3                            | 76          |
| AR-D50 | 5          | 1 - 4.6                 | 65                           | 125                          | 9 - 4.5                            | 78          |

SUBMERSIBLE PUMPS WITH DIFFUSER TYPE AERATOR DEVICE



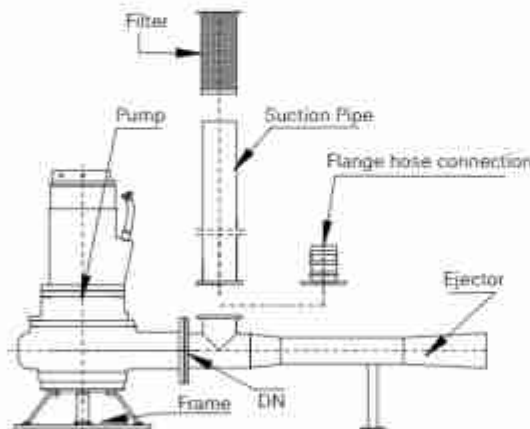
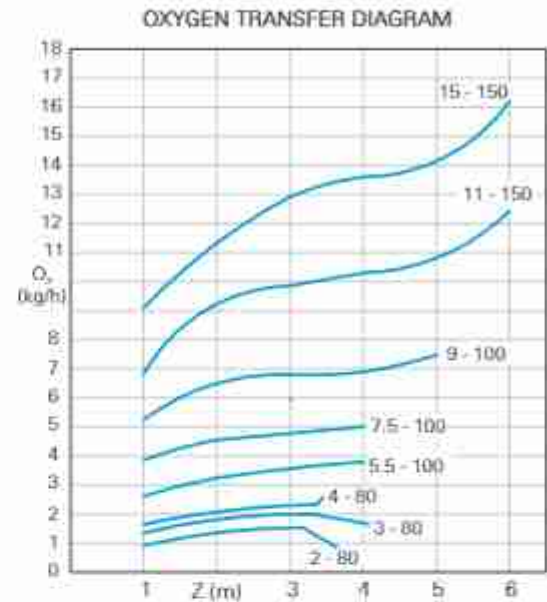
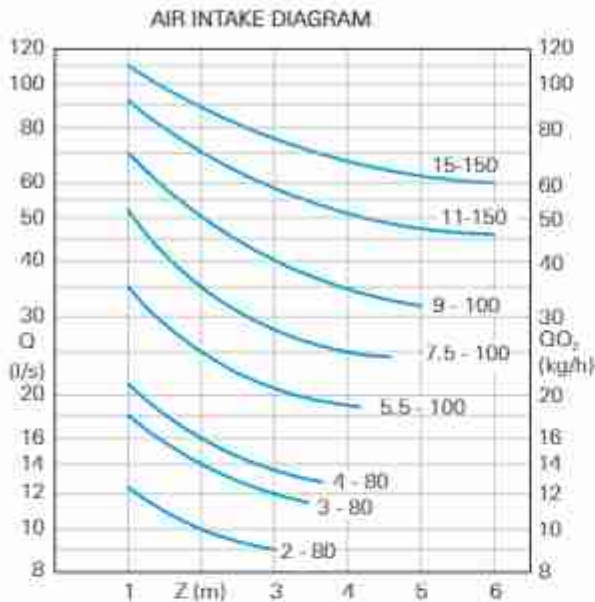
| S.No. | Model Name | A   | B   | C   | E  | €   | I   | J   | R  |
|-------|------------|-----|-----|-----|----|-----|-----|-----|----|
| 1     | AR-D16     | 170 | 300 | 350 | 40 | 219 | 484 | 550 | 36 |
| 2     | AR-D22     | 170 | 310 | 400 | 50 | 220 | 481 | 613 | 36 |
| 3     | AR-D37     | 170 | 310 | 400 | 50 | 220 | 481 | 613 | 36 |
| 4     | AR-D50     | 225 | 370 | 400 | 65 | 260 | 720 | 702 | 45 |



| S. No. | Model Name | High Coverage X (m) | Medium Coverage Y (m) | Submergence Z (m) |
|--------|------------|---------------------|-----------------------|-------------------|
| 1      | AR-D16     | 1.2                 | 2.6                   | 2                 |
| 2      | AR-D22     | 2.5                 | 5.2                   | 3                 |
| 3      | AR-D37     | 3.5                 | 6                     | 4.4               |
| 4      | AR-D57     | 4                   | 8.2                   | 4.6               |

## MCC SERIES SUBMERSIBLE PUMPS WITH JET TYPE AERATOR DEVICE

For technical specification of the MCC electric pumps please see the "MCC series" pages of ITech series Catalogue



Indicative Selection  
 $P = 0.03 \times V$   
 P - Motor rating (kW)  
 V - Volume of liquid sump (m<sup>3</sup>)

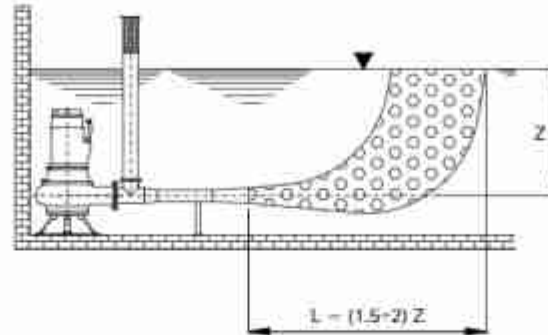
Q - Air capacity - (l/s), Z - Submergence - (m),  $Q_{O_2}$  - Oxygen in air capacity - (kg/h),  $D_3$  - Oxygen transfer - (kg/h) Curve established for liquid density 1 - viscosity 1mm<sup>2</sup> - temperature 20°C

| Assembly<br>Pump +<br>Ejector | Composition     |           |                 |                      |                 |                          |            |         |        |              |              |        |                 |       |
|-------------------------------|-----------------|-----------|-----------------|----------------------|-----------------|--------------------------|------------|---------|--------|--------------|--------------|--------|-----------------|-------|
|                               | Aerator<br>Type | Pump Type | Electric Pump   |                      |                 |                          |            | Startup |        | Ejector Type | Accessories  |        |                 |       |
|                               |                 |           | Discharge<br>DN | Motor Rating<br>(kW) | Windings<br>(V) | Absorption<br>(A (100V)) | rpm<br>(n) | Direct  | Direct |              | Suction Pipe | Filter | Hose Connection | Frame |
| JET 2 - 80                    | MC-CC22-FT-4    | 80        | 2.2             | 230-100              | 5.4             | 1450                     | Δ          |         | 80-55  | S 80         | F 80         | HC 80  | FR 80           |       |
| JET 3 - 80                    | MC-CC35-FT-4    |           | 3.5             |                      |                 |                          |            |         |        |              |              |        |                 | 6.6   |
| JET 4 - 80                    | MC-CC42-FT-4    |           | 4.2             |                      |                 |                          |            |         |        |              |              |        |                 | 9.9   |
| JET 5.5 - 100                 | MC-CC50-FT-4    | 100       | 5               | 400-630              | 11              | 1450                     | Δ          | Δ-Δ     | 100-63 | S-100        | F 100        | HC 100 | FR 100          |       |
| JET 7.5 - 100                 | MC-CC75-FT-4    |           | 7.5             |                      |                 |                          |            |         |        |              |              |        |                 | 16    |
| JET 9 - 100                   | MC-CC90-FT-4    |           | 9               |                      |                 |                          |            |         |        |              |              |        |                 | 20    |
| JET 11 - 150                  | MC-CC120-FT-4   | 150       | 11              |                      | 24              | 1450                     | Δ          | Δ-Δ     | 150-85 | S 150        | F 150        | HC 150 | FR 150          |       |
| JET 15 - 150                  | MC-CC140-FT-4   |           | 14              |                      |                 |                          |            |         |        |              |              |        |                 | 30    |



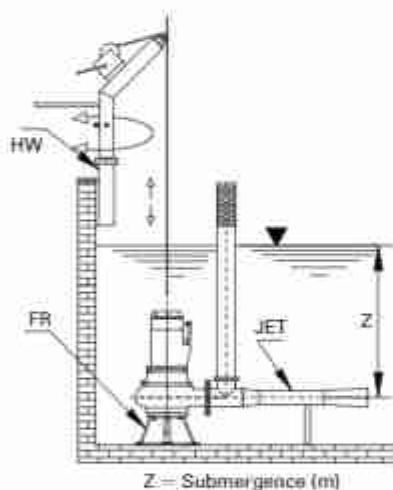
MCC SERIES SUBMERSIBLE PUMPS WITH JET TYPE AERATOR DEVICE

Jet Shape

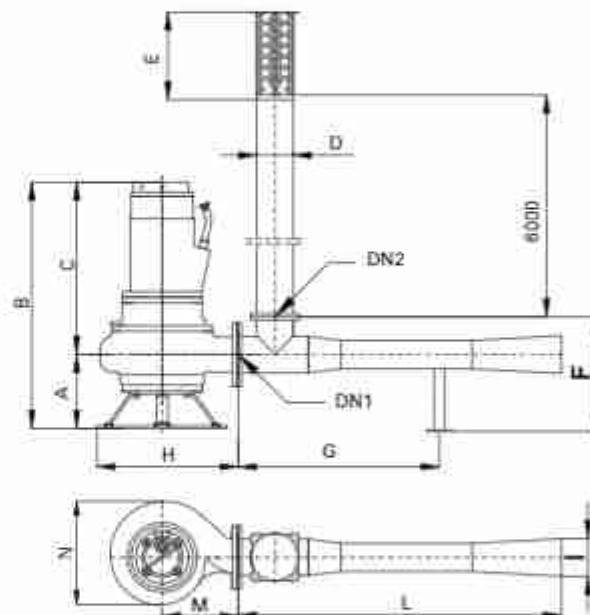


Z – Submergence (m)

Possible Installations



Z – Submergence (m)



| OVERALL DIMENSIONS (mm) |     |     |     |      |     |      |     |     |     |     |     |      |     | ACCESSORIES |        |               |                             |              |                   |
|-------------------------|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|------|-----|-------------|--------|---------------|-----------------------------|--------------|-------------------|
| Aerator Type            | DN1 | DN2 | A   | B    | C   | D    | E   | F   | G   | H   | I   | L    | M   | N           | Frame  | Hoist & Winch | Hose Connection with Flange | Suction Pipe | Air Intake Filter |
|                         |     |     |     |      |     |      |     |     |     |     |     |      |     |             |        |               |                             |              |                   |
| JET 2 - 80              | 80  | 80  | 240 | 630  | 390 | 88.9 | 200 | 360 | 632 | 420 | 118 | 1016 | 280 | 360         | FR 80  | HW 80         | HCF 80                      | S 80         | AIF 80            |
| JET 3 - 80              |     |     |     | 670  | 430 |      |     |     |     |     |     |      |     |             |        |               |                             |              |                   |
| JET 4 - 80              |     |     |     | 800  | 413 |      |     |     |     |     |     |      |     |             |        |               |                             |              |                   |
| JET 5.5 - 100           | 100 | 100 | 240 | 806  | 566 | 114  | 260 | 421 | 632 | 460 | 118 | 1016 | 280 | 360         | FR 100 | HW 100        | HCF 100                     | S 100        | AIF 100           |
| JET 7.5 - 100           |     |     |     | 826  | 586 |      |     |     |     |     |     |      |     |             |        |               |                             |              |                   |
| JET 9 - 100             |     |     |     | 945  | 603 |      |     |     |     |     |     |      |     |             |        |               |                             |              |                   |
| JET 11 - 150            | 150 | 150 | 342 | 1019 | 677 | 168  | 395 | 491 | 943 | 516 | 202 | 1582 | 370 | 468         | FR 150 | HW 150        | HCF 150                     | S 150        | AIF 150           |
| JET 15 - 150            |     |     |     | 1019 | 677 |      |     |     |     |     |     |      |     |             |        |               |                             |              |                   |



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