

Looking ahead,  
going beyond expectations  
*Ahead > Beyond*



**DAR - Submersible pumps for wastewater**

Product Catalogue



# DAR

## Not the usual submersible pump

Submersible electric pumps with **vortex** and **dual-channel impeller**, for **sewage applications**.

Suitable for handling liquids containing solid and/or filamentary substances in suspension and for draining sewage water (sanitary fixtures). They are also recommended for draining cesspits and discharging into the sewer.

### Technical data

- **Maximum immersion:**  
7 m with 10 m cable length
- **Maximum temperature of the liquid:**  
25°C with partially submersed pump  
35°C with totally submersed pump
- **Maximum solids passage:** 50 - 65mm
- **Motor:** 2 Poles
- **Insulation class:** F
- **Protection degree:** IP68
- **Voltage:** Single phase 1~230V±10%  
Three phase 3~400V±10%

### Materials

- **Pump body:** Cast iron
- **Impeller:** AISI 304 (EN 1.4301)
- **Shaft:** AISI 316 (EN 1.4401)
- **Mechanical seal:**  
50DAR: Impeller side: Graphite/Ceramic  
Motor side: NBR sealing ring  
65DAR: Impeller side: Silicon Carbide/Ceramic  
Motor side: NBR sealing ring

### Pipe connections



**Threaded**  
50DAR

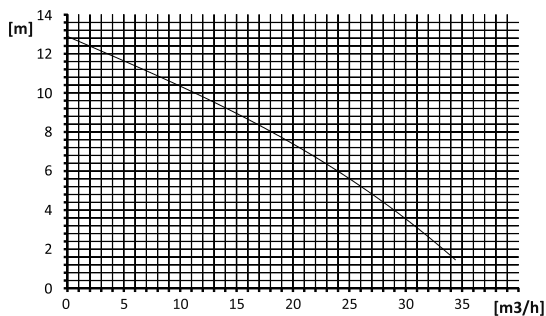


**Flanged**  
65DAR

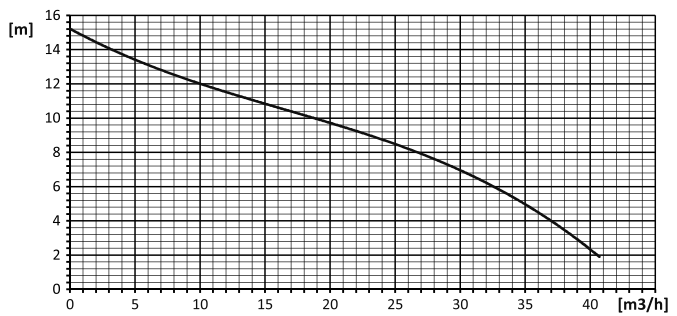


# Performance Curves

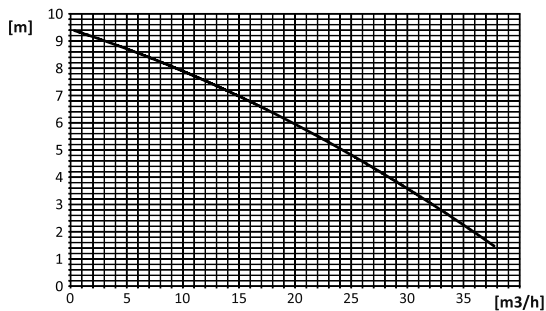
50DAR51.1V



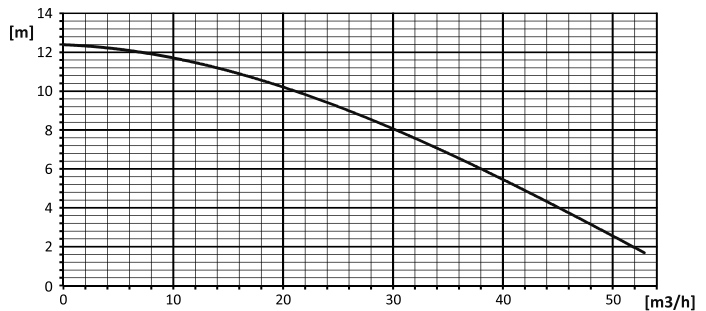
50DAR51.1B



65DAR51.1V



65DAR51.5V



| Single phase 230V |     |     |             |      |      |      |      |      |      |     |     | 2 poles |                     |              |     |             |
|-------------------|-----|-----|-------------|------|------|------|------|------|------|-----|-----|---------|---------------------|--------------|-----|-------------|
| Model             | HP  | kW  | Q=Flow rate |      |      |      |      |      |      |     |     |         | Abs. Curr. [A] 230V | Passage [mm] | DNM | Weight [kg] |
|                   |     |     | l/min       | 0    | 50   | 100  | 150  | 260  | 350  | 450 | 500 | 700     |                     |              |     |             |
|                   |     |     | m³/h        | 0    | 3    | 6    | 9    | 15,6 | 21   | 27  | 30  | 42      |                     |              |     |             |
| H=Total Head [m]  |     |     |             |      |      |      |      |      |      |     |     |         |                     |              |     |             |
| 50DAR51.1VMFS     | 1,5 | 1,1 |             | 13   | 12   | 11,5 | 10,6 | 8,6  | 7    | 4,8 | 3,6 | -       | 11,5                | 50           | 2   | 16,5        |
| 50DAR51.1BMFS     | 1,5 | 1,1 |             | 15   | 14,2 | 13,5 | 12,7 | 11   | 9,5  | 7,9 | 7   | 3,2     | 12                  | 50           | 2   | 17,5        |
| 65DAR51.1VMFS     | 1,5 | 1,1 |             | 9,5  | 9    | 8,6  | 8,2  | 7    | 6    | 4,6 | 4   | -       | 12                  | 65           | 2½  | 28          |
| 65DAR51.5VM       | 2   | 1,5 |             | 12,5 | 12,3 | 12   | 11,8 | 11,3 | 10,4 | 9   | 8,2 | 5       | 14,5                | 65           | 2½  | 28          |

| Three phase 400V |     |     |             |      |      |      |      |      |      |     |     | 2 poles |                     |              |     |             |
|------------------|-----|-----|-------------|------|------|------|------|------|------|-----|-----|---------|---------------------|--------------|-----|-------------|
| Model            | HP  | kW  | Q=Flow rate |      |      |      |      |      |      |     |     |         | Abs. Curr. [A] 400V | Passage [mm] | DNM | Weight [kg] |
|                  |     |     | l/min       | 0    | 50   | 100  | 150  | 260  | 350  | 450 | 500 | 700     |                     |              |     |             |
|                  |     |     | m³/h        | 0    | 3    | 6    | 9    | 15,6 | 21   | 27  | 30  | 42      |                     |              |     |             |
| H=Total Head [m] |     |     |             |      |      |      |      |      |      |     |     |         |                     |              |     |             |
| 50DAR51.1VT      | 1,5 | 1,1 |             | 13   | 12   | 11,5 | 10,6 | 8,6  | 7    | 4,8 | 3,6 | -       | 3,8                 | 50           | 2   | 17          |
| 50DAR51.1BT      | 1,5 | 1,1 |             | 15   | 14,2 | 13,5 | 12,7 | 11   | 9,5  | 7,9 | 7   | 3,2     | 4                   | 50           | 2   | 17,5        |
| 65DAR51.1VT      | 1,5 | 1,1 |             | 9,5  | 9    | 8,6  | 8,2  | 7    | 6    | 4,6 | 4   | -       | 4,2                 | 65           | 2½  | 25          |
| 65DAR51.5VT      | 2   | 1,5 |             | 12,5 | 12,3 | 12   | 11,8 | 11,3 | 10,4 | 9   | 8,2 | 5       | 6                   | 65           | 2½  | 27,5        |



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