

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

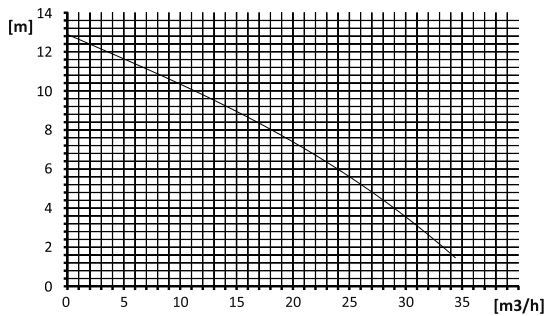


Flanged
65DAR

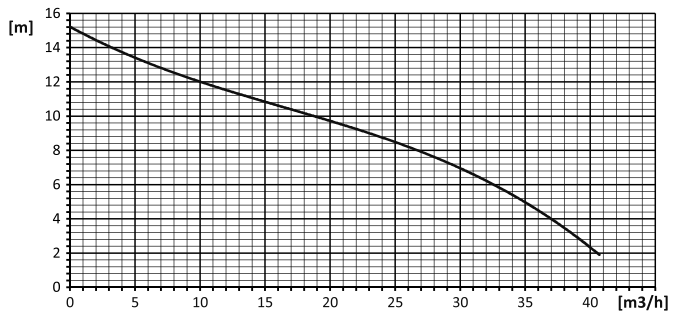


Performance Curves

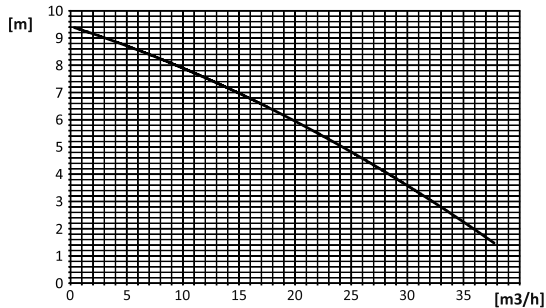
50DAR51.1V



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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