



## **Amarex IN** - Submersible Motor Pumps for Handling Waste Water



### **Applications**

- Waste water transport
- Waste water treatment
- Sludge treatment
- Storm water transport

### **More information:**

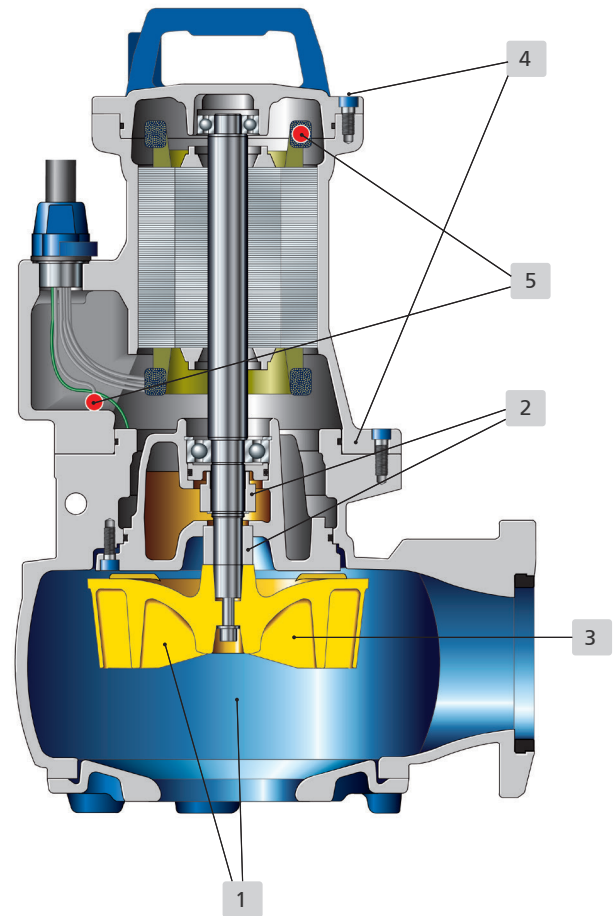
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# Amarex IN - Submersible Motor Pumps for Handling Waste Water

- 1 Significant energy savings**  
High efficiency through optimized hydraulic system
- 2 No risk of leakage**  
With 2 mechanical seals
- 3 Flexibility**  
Optional choice of impeller material with stainless steel and cast iron variant. Various installation types to suit different building structures
- 4 Easy rewinding**  
Access from both sides of the motor for easy pull out/in of stator, easy rewinding & commissioning
- 5 Monitoring**  
Sensors trigger a warning in the event of overheating or ingress of moisture



## Impellers



Type S



Type F



Guide wire arrangement



Transportable installation

## Technical data

|                                                                        |                         |
|------------------------------------------------------------------------|-------------------------|
| Pump sizes                                                             | DN 50/65 and DN 100     |
| Flow rate                                                              | up to 46 l/s            |
| Head                                                                   | up to 49 m              |
| Temperature Standard (ULG)<br>(up to 80 °C for a short period of time) | up to 55 °C             |
| Speed                                                                  | 1,450 rpm and 2,900 rpm |
| Power                                                                  | up to 4.2 kW            |

Power supply : 400 V, 50 Hz, Three Phase

| Pump Type | Motor Type | Motor Rating |      | Nominal Speed | Rated Current | Dia meter | Free Passage |          | Q (m³/hr) |      |      |      |      |      |      |      |      |     |
|-----------|------------|--------------|------|---------------|---------------|-----------|--------------|----------|-----------|------|------|------|------|------|------|------|------|-----|
| Amarex IN | ULG        | Kw           | HP   | rpm           | Amp           | mm        | mm           |          | 2         | 4    | 6    | 8    | 10   | 12   | 14   | 16   | 18   | 20  |
| S 50-172  | 002        | 1.3          | 1.75 | 2900          | 4             | 120       | 6            | Head (m) | 15.5      | 13.6 | 11.9 | 10.1 | 8.2  | 6.3  | 3.6  |      |      |     |
| S 50-172  | 002        | 1.3          | 1.75 | 2900          | 4             | 140       | 6            |          | 22.6      | 20.6 | 18.6 | 16.5 | 14.2 | 11.4 | 8.4  | 4.8  |      |     |
| S 50-172  | 012        | 1.9          | 2.5  | 2900          | 4.8           | 160       | 6            |          | 30.8      | 29.1 | 27.3 | 25.5 | 23.3 | 20.6 | 17.9 | 15.3 | 12.0 | 8.0 |

| Pump Type | Motor Type | Motor Rating |     | Nominal Speed | Rated Current | Dia meter | Free Passage |      | Q (m³/hr) |      |      |      |      |      |      |      |      |      |      |
|-----------|------------|--------------|-----|---------------|---------------|-----------|--------------|------|-----------|------|------|------|------|------|------|------|------|------|------|
| Amarex IN | ULG        | Kw           | HP  | rpm           | Amp           | mm        | mm           |      | 2         | 4    | 6    | 8    | 10   | 12   | 14   | 16   | 18   | 20   | 22   |
| S 50-222  | 032        | 3.1          | 4.1 | 2900          | 7.3           | 175       | 6            |      | Head (m)  | 37.0 | 34.7 | 32.3 | 29.6 | 26.8 | 24.1 | 21.1 | 18.0 | 14.4 | 10.3 |
| S 50-222  | 042        | 4.2          | 5.6 | 2900          | 8.8           | 190       | 6            | 47.1 |           | 45.2 | 43.2 | 41.2 | 39.0 | 36.9 | 34.0 | 31.1 | 27.9 | 21.8 | 7.9  |

Power supply : 400 V, 50 Hz, Three Phase

| Pump Type | Motor Type | Motor Rating |      | Nominal Speed | Rated Current | Dia meter | Free Passage |          | Q (m³/hr) |      |      |      |      |      |     |     |    |
|-----------|------------|--------------|------|---------------|---------------|-----------|--------------|----------|-----------|------|------|------|------|------|-----|-----|----|
| Amarex IN | ULG        | Kw           | HP   | rpm           | Amp           | mm        | mm           |          | 5         | 10   | 15   | 20   | 25   | 30   | 35  | 40  | 45 |
| F 50-170  | 002        | 1.3          | 1.75 | 2900          | 4             | 90        | 40           | Head (m) | 8.5       | 7.4  | 6.2  | 4.8  | 3.6  | 2.2  |     |     |    |
| F 50-170  | 002        | 1.3          | 1.75 | 2900          | 4             | 107       | 40           |          | 11.8      | 10.6 | 9.4  | 7.9  | 6.4  | 4.9  |     |     |    |
| F 50-170  | 012        | 1.9          | 2.5  | 2900          | 4.8           | 120       | 40           |          | 14.8      | 13.7 | 12.6 | 11.4 | 9.8  | 8.3  | 6.5 |     |    |
| F 50-170  | 022        | 2.3          | 3.06 | 2900          | 5.1           | 130       | 40           |          | 17.2      | 16.2 | 15.1 | 13.9 | 12.5 | 10.9 | 9.1 | 7.0 |    |
| F 50-170  | 022        | 2.3          | 3.06 | 2900          | 5.1           | 140       | 40           |          | 19.6      | 18.6 | 17.4 | 16.2 | 14.7 |      |     |     |    |

| Pump Type | Motor Type | Motor Rating |     | Nominal Speed | Rated Current | Dia meter | Free Passage |          | Q (m³/hr) |      |      |      |      |      |      |      |      |
|-----------|------------|--------------|-----|---------------|---------------|-----------|--------------|----------|-----------|------|------|------|------|------|------|------|------|
| Amarex IN | ULG        | Kw           | HP  | rpm           | Amp           | mm        | mm           |          | 5         | 10   | 15   | 20   | 25   | 30   | 35   | 40   | 45   |
| F 50-220  | 032        | 3.1          | 4.1 | 2900          | 7.13          | 130       | 40           | Head (m) | 19.8      | 18.6 | 17.6 | 16.5 | 15.2 | 14.1 | 12.4 | 10.6 | 8.6  |
| F 50-220  | 032        | 3.1          | 4.1 | 2900          | 7.13          | 140       | 40           |          | 22.8      | 21.3 | 20.2 | 19.1 | 17.9 | 16.7 | 15.3 | 13.4 | 11.5 |
| F 50-220  | 042        | 4.2          | 5.6 | 2900          | 8.8           | 150       | 40           |          | 25.9      | 24.4 | 23.0 | 21.8 | 20.8 | 19.7 | 18.5 | 16.9 | 14.7 |
| F 50-220  | 042        | 4.2          | 5.6 | 2900          | 8.8           | 160       | 40           |          | 29.5      | 27.9 | 26.4 | 25.1 | 23.8 | 22.5 | 21.1 |      |      |
| F 50-220  | 042        | 4.2          | 5.6 | 2900          | 8.8           | 170       | 40           |          | 33.4      | 31.5 | 30.0 | 28.4 | 27.3 |      |      |      |      |
| F 50-220  | 042        | 4.2          | 5.6 | 2900          | 8.8           | 180       | 40           |          | 37.4      | 35.4 | 33.5 | 31.6 |      |      |      |      |      |

| Pump Type | Motor Type | Motor Rating |     | Nominal Speed | Rated Current | Dia meter | Free Passage |          | Q (m³/hr) |      |      |      |      |      |      |      |      |      |     |     |     |     |
|-----------|------------|--------------|-----|---------------|---------------|-----------|--------------|----------|-----------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| Amarex IN | ULG        | Kw           | HP  | rpm           | A             | mm        | mm           |          | 10        | 15   | 20   | 25   | 30   | 35   | 40   | 45   | 50   | 55   | 60  | 65  | 70  | 75  |
| F 65-170  | 032        | 3.1          | 4.1 | 2900          | 7.13          | 120       | 65           | Head (m) | 11.1      | 10.6 | 10.0 | 9.2  | 8.3  | 7.3  | 6.4  | 5.7  | 5.0  | 4.4  | 3.8 | 3.2 |     |     |
| F 65-170  | 032        | 3.1          | 4.1 | 2900          | 7.13          | 128       | 65           |          | 13.6      | 13.1 | 12.5 | 11.7 | 10.7 | 9.6  | 8.6  | 7.6  | 6.7  | 5.9  | 5.1 | 4.4 |     |     |
| F 65-170  | 032        | 3.1          | 4.1 | 2900          | 7.13          | 136       | 65           |          | 15.8      | 15.3 | 14.6 | 13.9 | 13.0 | 11.7 | 10.5 | 9.2  | 8.1  | 7.0  | 6.4 | 5.5 | 4.8 |     |
| F 65-17N  | 042        | 4.2          | 5.6 | 2900          | 8.8           | 146       | 65           |          | 18.2      | 17.6 | 17.0 | 16.3 | 15.3 | 14.0 | 12.7 | 11.4 | 9.9  | 8.9  | 7.9 | 7.0 | 6.2 |     |
| F 65-170  | 042        | 4.2          | 5.6 | 2900          | 8.8           | 152       | 65           |          | 20.2      | 19.6 | 19.1 | 18.3 | 17.5 | 16.5 | 15.2 | 13.7 | 12.3 | 11.0 | 9.8 | 8.7 | 7.7 | 7.0 |
| F 65-170  | 042        | 4.2          | 5.6 | 2900          | 8.8           | 158       | 65           |          | 22.5      | 21.8 | 21.2 | 20.5 | 19.8 | 19.0 | 17.7 |      |      |      |     |     |     |     |

| Pump Type | Motor Type | Motor Rating |     | Nominal Speed | Rated Current | Dia meter | Free Passage |          | Q (m³/hr) |     |     |     |     |     |     |     |     |     |     |     |
|-----------|------------|--------------|-----|---------------|---------------|-----------|--------------|----------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Amarex IN | ULG        | Kw           | HP  | rpm           | A             | mm        | mm           |          | 10        | 15  | 20  | 25  | 30  | 35  | 40  | 45  | 50  | 55  | 60  | 65  |
| F 65-220  | 004        | 0.8          | 1.1 | 1450          | 3.1           | 112       | 65           | Head (m) | 2.8       | 2.5 | 2.1 | 1.6 | 1.1 |     |     |     |     |     |     |     |
| F 65-220  | 004        | 0.8          | 1.1 | 1450          | 3.1           | 125       | 65           |          | 3.6       | 3.3 | 2.9 | 2.5 | 2.0 | 1.4 |     |     |     |     |     |     |
| F 65-220  | 004        | 0.8          | 1.1 | 1450          | 3.1           | 135       | 65           |          | 4.3       | 3.9 | 3.5 | 3.0 | 2.4 | 1.8 | 1.1 |     |     |     |     |     |
| F 65-220  | 004        | 0.8          | 1.1 | 1450          | 3.1           | 145       | 65           |          | 5.1       | 4.7 | 4.3 | 3.9 | 3.4 | 2.8 | 2.3 | 1.7 |     |     |     |     |
| F 65-220  | 004        | 0.8          | 1.1 | 1450          | 3.1           | 155       | 65           |          | 5.9       | 5.6 | 5.3 | 5.0 | 4.6 | 4.0 | 3.4 | 2.7 | 2.0 |     |     |     |
| F 65-220  | 014        | 1.3          | 1.7 | 1450          | 3.8           | 165       | 65           |          | 6.8       | 6.6 | 6.3 | 6.0 | 5.6 | 5.1 | 4.4 | 3.7 | 3.0 | 2.2 |     |     |
| F 65-220  | 014        | 1.3          | 1.7 | 1450          | 3.8           | 175       | 65           |          | 7.5       | 7.3 | 7.2 | 6.9 | 6.5 | 6.1 | 5.4 | 4.8 | 4.0 | 3.2 | 2.5 |     |
| F 65-220  | 024        | 1.8          | 2.4 | 1450          | 4.25          | 185       | 65           |          | 8.3       | 8.1 | 7.9 | 7.6 | 7.3 | 6.9 | 6.5 | 5.9 | 5.2 | 4.5 | 3.6 | 2.8 |
| F 65-220  | 024        | 1.8          | 2.4 | 1450          | 4.25          | 195       | 65           |          | 9.2       | 9.0 | 8.8 | 8.6 | 8.3 | 8.1 | 7.7 | 7.2 | 6.5 | 5.7 | 4.9 | 4.0 |

| Pump Type | Motor Type | Motor Rating |     | Nominal Speed | Rated Current | Dia meter | Free Passage | Head (m) | Q (m³/hr) |      |      |      |     |     |     |     |     |     |     |     |     |     |
|-----------|------------|--------------|-----|---------------|---------------|-----------|--------------|----------|-----------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Amarex IN | ULG        | Kw           | HP  | rpm           | A             | mm        | mm           |          | 20        | 30   | 40   | 50   | 60  | 70  | 80  | 90  | 100 | 110 | 120 | 130 | 140 | 150 |
| F 100-220 | 034        | 1.9          | 2.5 | 1450          | 6.1           | 120       | 100          |          | 3.2       | 3.0  | 2.8  | 2.6  | 2.3 | 2.0 | 1.6 | 1.1 |     |     |     |     |     |     |
| F 100-220 | 034        | 1.9          | 2.5 | 1450          | 6.1           | 135       | 100          |          | 4.4       | 4.2  | 3.9  | 3.6  | 3.2 | 2.9 | 2.4 | 2.0 | 1.6 |     |     |     |     |     |
| F 100-220 | 034        | 2.6          | 3.5 | 1450          | 6.8           | 150       | 100          |          | 6.1       | 5.8  | 5.4  | 5.1  | 4.8 | 4.3 | 3.9 | 3.5 | 3.0 | 2.5 | 2.0 |     |     |     |
| F 100-220 | 044        | 3.7          | 5.0 | 1450          | 8.4           | 165       | 100          |          | 7.6       | 7.3  | 7.0  | 6.6  | 6.2 | 5.7 | 5.2 | 4.8 | 4.3 | 3.7 | 3.1 | 2.6 |     |     |
| F 100-220 | 044        | 3.7          | 5.0 | 1450          | 8.4           | 180       | 100          |          | 9.1       | 8.8  | 8.5  | 8.0  | 7.6 | 7.2 | 6.7 | 6.1 | 5.6 | 5.0 | 4.4 | 3.7 | 3.1 |     |
| F 100-220 | 044        | 3.7          | 5.0 | 1450          | 8.4           | 195       | 100          |          | 10.4      | 10.0 | 9.7  | 9.2  | 8.7 | 8.2 | 7.7 | 7.1 | 6.5 | 5.8 | 5.3 | 4.6 | 4.0 | 3.5 |
| F 100-220 | 044        | 3.7          | 5.0 | 1450          | 8.4           | 210       | 100          |          | 11.4      | 11.1 | 10.8 | 10.3 | 9.8 | 9.3 | 8.8 | 8.2 |     |     |     |     |     |     |

| Model     | Diameter | Q max |
|-----------|----------|-------|
| Amarex IN | mm       | m³/hr |
| F 50-170  | 140      | 22    |
| F 50-220  | 140      | 45    |
| F 50-220  | 160      | 34    |
| F 50-220  | 170      | 25    |
| F 50-220  | 180      | 18    |
| F 65-220  | 195      | 48    |
| F 100-220 | 210      | 90    |