Nova is a submersible pump for draining clear water in domestic and residential environments. Completely redesigned in 2019 for the forty years of sales, it is now even more durable, reliable and ergonomic in use. Nova can also be used for emptying tanks or cisterns.

**CONSTRUCTION FEATURES OF THE PUMP**

The pump body, the impeller and the suction grille are in technopolymer. Robust and reliable with triple sealing in oil bath. The pump allows the suction of the liquid up to the minimum level of 10 mm and the possibility of dry operation up to 1 minute.

**CONSTRUCTION FEATURES OF THE MOTOR**

Continuous duty asynchronous submersible motor. Stator inserted in a hermetic stainless steel casing and rotor mounted on oversized ball bearings. Thermal protection incorporated in all single-phase versions. The motor is in AISI 304 stainless steel and the shaft is in AISI 431 steel for greater resistance to corrosive attacks.

**TECHNICAL DATA**

- **Flow rate minimum and maximum:** from 1 m³/h to 16 m³/h
- **Head up to:** 10.2 m
- **Maximum immersion depth:** 7 m
- **Type of pumped liquid:** clear water or rainwater
- **Free passage:** 5 mm or 10 mm (depending on the model)
- **Minimum intake level:**
  - NOVA 180/200 8mm
  - NOVA 300 13mm
  - NOVA 600 30mm
- **Supported liquid temperature min. and max.:**
  - from +0°C a +35°C for domestic use
  - from +0°C a +50°C for other use
- **Class of protection:** IP 68
- **Motor insulation class:** F
- **Impeller construction material(s):** technopolymer
- **Single phase power input:** 230 v 50 Hz
- **Three phase power input:** 3x400V 50 Hz
- **Possible type of installation:** fixed or portable in a vertical position
## MATERIALS

<table>
<thead>
<tr>
<th>N°</th>
<th>PARTS *</th>
<th>MATERIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PUMP BODY</td>
<td>TECHNOPOLIMER</td>
</tr>
<tr>
<td>2</td>
<td>IMPELLER</td>
<td>TECHNOPOLIMER</td>
</tr>
<tr>
<td>3</td>
<td>OR RING</td>
<td>NBR</td>
</tr>
<tr>
<td>4</td>
<td>MOTOR CASE</td>
<td>AISI 304 STAINLESS STEEL X5 CrNi1810 - UNI 6900/71</td>
</tr>
<tr>
<td></td>
<td>ROTOR SHAFT</td>
<td>AISI 431 STAINLESS STEEL</td>
</tr>
<tr>
<td>5</td>
<td>SUCTION GRID</td>
<td>TECHNOPOLIMER</td>
</tr>
<tr>
<td>6</td>
<td>FLOAT</td>
<td>TECHNOPOLIMER</td>
</tr>
</tbody>
</table>

* In contact with the liquid

## MINIMUM WELL SIZE FOR AUTOMATIC OPERATION FIXED INSTALLATION:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NOVA 180 - NOVA 300</td>
<td>NOVA 600</td>
</tr>
</tbody>
</table>

![Diagram of NOVA pump installation dimensions](image)
**NOVA 180-200 - SUBMERSIBLE PUMP**

Liquid temperature range: from 0 °C to +35 °C for domestic use

---

**MODEL** | **Q = m³/h** | **0** | **3** | **6** | **9** | **12**
---|---|---|---|---|---|---
**Q=l/min** | **H (m)** | **5** | **3.2** | **-** | **-** | **-**
NOVA 180 MA - MNA | H (m) | 5 | 3.2 | - | - | -
NOVA 200 MNA | H (m) | 7.1 | 5.6 | 4.2 | 2.8 | 1.5

**MODEL** | **POWER INPUT** | **P1 MAX** | **P2 NOMINAL** | **In** | **CAPACITOR** | **Vc**
---|---|---|---|---|---|---
**50 Hz** | **kW** | **HP** | **µF** | **V** | **µF** | **V**
NOVA 180 MA - MNA | 1X230 V~ | 0.19 | 0.2 | 0.3 | 0.9 | 5 | 450
NOVA 200 MNA | 1X230 V~ | 0.35 | 0.22 | 0.3 | 1.5 | 8 | 450

A: Automatic with float - NA: Non-automatic, without float

---

**MODEL** | **A** | **B** | **C** | **D** | **E** | **H** | **H1** | **H2** | **LEV. MIN.** | **LEV. MAX.** | **DNM GAS** | **PACKING DIMENSIONS** | **CABLE** | **VOLUME** | **WEIGHT**
---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---
NOVA 180 MA | 180 | 247 | 46 | 296 | 158 | 268 | 345 | 38 | 77 | 285 | 1 1/4 | 287 | 202 | 320 | 5m H05 10m H05 | 0.019 | 4.6
NOVA 180 MNA | 151 | - | 46 | - | 158 | 268 | - | 38 | - | - | 1 1/4 | 287 | 202 | 320 | 10m H05 | 0.019 | 4.6
NOVA 200 MNA | 151 | - | 46 | - | 158 | 268 | - | 38 | - | - | 1 1/4 | 287 | 202 | 320 | 10m H05 | 0.019 | 4.6

As per European standard EN 60335-2-41, for outdoor use power cable must be 10m long.

---

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.
NOVA 300-600 - SUBMERSIBLE PUMP

Liquid temperature range: from 0 °C to +35 °C for domestic use.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Q= m³/h</th>
<th>0</th>
<th>3</th>
<th>6</th>
<th>9</th>
<th>12</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOVA 300 MA</td>
<td>H (m)</td>
<td>7.2</td>
<td>5.8</td>
<td>4.6</td>
<td>3.4</td>
<td>2.2</td>
<td>-</td>
</tr>
<tr>
<td>NOVA 600 MA-MNA-TNA</td>
<td>H (m)</td>
<td>10.4</td>
<td>9</td>
<td>7.8</td>
<td>6.7</td>
<td>5.3</td>
<td>3.5</td>
</tr>
</tbody>
</table>

**ELECTRICAL DATA**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>POWER INPUT 50 Hz</th>
<th>P1 MAX kW</th>
<th>P2 NOMINAL kW</th>
<th>In A</th>
<th>CAPACITOR µF Vc</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOVA 300 MA</td>
<td>1X230V-</td>
<td>0.35</td>
<td>0.22</td>
<td>0.3</td>
<td>1.5</td>
</tr>
<tr>
<td>NOVA 600 MA-MNA</td>
<td>1X230V-</td>
<td>0.66</td>
<td>0.5</td>
<td>0.7</td>
<td>3.0</td>
</tr>
<tr>
<td>NOVA 600 TNA</td>
<td>3X400V-</td>
<td>0.66</td>
<td>0.5</td>
<td>0.67</td>
<td>1.7</td>
</tr>
</tbody>
</table>

A: Automatic with float - NA: Non-automatic, without float

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

As per European standard EN 60335-2-41, for outdoor use power cable must be 10m long.
Feka 300 and Feka 600 are submersible pumps suitable for draining and lifting light or gray wastewater and rainwater in domestic and residential environments, suitable for fixed or mobile installations. The pumps have been redesigned on the occasion of the forty years of production, making them even more reliable, resistant and ergonomic to use. Available in the automatic versions with integrated float switch or in the manual versions without float switch. Possibility of dry running up to 1 minute.

**CONSTRUCTION FEATURES OF THE PUMP**

Technopolymer pump body and suction grille. Triple ring seal in oil bath.

**CONSTRUCTION FEATURES OF THE MOTOR**

Continuous duty asynchronous submersible motor. Stator inserted in a hermetic stainless steel casing and rotor mounted on oversized ball bearings. Thermal protection incorporated in all single-phase versions. Motor in AISI 304 stainless steel and shaft in AISI 431 steel for greater resistance to corrosive attacks.

**TECHNICAL DATA**

- **Flow rate minimum and maximum:** from 1 m³/h to 16 m³/h
- **Head up to:** 7.5 m
- **Maximum immersion depth:** 7 m
- **Type of pumped liquid:** wastewater and rainwater
- **Free passage:** 25 mm
- **Minimum intake level:** 38 mm
- **Supported liquid temperature min. and max.:**
  - from +0°C a +35°C for domestic use
  - da +0°C a +50°C for other uses
- **Class of protection:** IP 68
- **Motor insulation class:** F
- **Impeller construction material(s):** technopolymer
- **Single phase power input:** 230 V 50 Hz
- **Three phase power input:** 3x230 V 50 Hz / 3x400 V 50 Hz
- **Possible type of installation:** fixed or portable in a vertical position
### MATERIALS

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<td>3</td>
<td>OR RING</td>
<td>NBR</td>
</tr>
<tr>
<td>4</td>
<td>MOTOR</td>
<td>CASE: AISI 304 STAINLESS STEEL X5 CrNi1810 - UNI 6900/71&lt;br&gt;ROTOR SHAFT: AISI 431 STAINLESS STEEL</td>
</tr>
<tr>
<td>5</td>
<td>SUCTION GRID</td>
<td>TECHNOPOLIMER</td>
</tr>
<tr>
<td>6</td>
<td>FLOAT</td>
<td>TECHNOPOLIMER</td>
</tr>
</tbody>
</table>

* In contact with the liquid

### MINIMUM WELL SIZE FOR AUTOMATIC OPERATION FIXED INSTALLATION:

![Diagram showing minimum well size for automatic operation fixed installation](image-url)
FEKA 300-600 - SUBMERSIBLE PUMPS

Liquid temperature range: from 0 °C to +35 °C for domestic use

<table>
<thead>
<tr>
<th>MODEL</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>H</th>
<th>H1</th>
<th>H2</th>
<th>LEV. MIN.</th>
<th>LEV. MAX.</th>
<th>DNM GAS</th>
<th>PACKING DIMENSIONS</th>
<th>CABLE*</th>
<th>VOLUME (m³)</th>
<th>WEIGHT Kg</th>
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</thead>
<tbody>
<tr>
<td>FEKA 300 MA - MNA</td>
<td>189</td>
<td>255</td>
<td>56</td>
<td>296</td>
<td>174</td>
<td>329</td>
<td>365</td>
<td>71</td>
<td>95</td>
<td>305</td>
<td>1 1/4</td>
<td>267</td>
<td>202</td>
<td>431</td>
<td>5m H05</td>
</tr>
<tr>
<td>FEKA 300 MNA</td>
<td>163</td>
<td>-</td>
<td>56</td>
<td>-</td>
<td>174</td>
<td>329</td>
<td>-</td>
<td>71</td>
<td>-</td>
<td>-</td>
<td>1 1/4</td>
<td>267</td>
<td>202</td>
<td>431</td>
<td>5m H05</td>
</tr>
<tr>
<td>FEKA 600 MA</td>
<td>189</td>
<td>255</td>
<td>56</td>
<td>296</td>
<td>174</td>
<td>349</td>
<td>443</td>
<td>71</td>
<td>190</td>
<td>390</td>
<td>1 1/4</td>
<td>267</td>
<td>202</td>
<td>431</td>
<td>5m H05</td>
</tr>
<tr>
<td>FEKA 600 MNA</td>
<td>163</td>
<td>-</td>
<td>56</td>
<td>-</td>
<td>174</td>
<td>349</td>
<td>-</td>
<td>71</td>
<td>-</td>
<td>-</td>
<td>1 1/4</td>
<td>267</td>
<td>202</td>
<td>431</td>
<td>5m H05</td>
</tr>
<tr>
<td>FEKA 600 TNA</td>
<td>163</td>
<td>-</td>
<td>56</td>
<td>-</td>
<td>174</td>
<td>349</td>
<td>-</td>
<td>71</td>
<td>-</td>
<td>-</td>
<td>1 1/4</td>
<td>267</td>
<td>202</td>
<td>431</td>
<td>5m H07</td>
</tr>
</tbody>
</table>

As per European standard EN 60335-2-41, for outdoor use power cable must be 10m long.

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.