MICROPUMPS BLACK EDITION FROM XAVITECH
Xavitech’s BLACK Edition is our pump model version with the most functionality and flexibility. Our goal is for you to be able to use this micro pump in your new or in-place system in an easy and convenient way.

- Options, guaranteed service lifespan
- Maximum value
- Adapted functions

CHOOSE THE SERVICE LIFESPAN FOR YOUR MICRO PUMP
The service lifespan of a pump is an extremely critical point when it comes to choosing a new pump. With the BLACK Edition from Xavitech, you do not need to adapt your decision to the service lifespan that the pump supplier sets. You choose the service lifespan that passes your system.

All systems are different and have different requirements. We believe that you the customer should be able to choose the service lifespan that exactly fits your system and business model, and not pay for a greater service lifespan than you actually need. To solve this problem, we created the BLACK Edition of our pumps.

ADAPT THE BLACK EDITION TO THE SYSTEM’S REQUIREMENTS
BLACK Edition even offers all of the advantages of Xavitech’s other pumps. Du can choose to calibrate your micro pump for the flow you need in your system, which allows for less testing in your production. If you like, you can even select the voltage the pump runs on, and if you prefer, cables or flex contacts exiting the pump.

You also have the opportunity to influence how the pump will work in its application. Each micro pump has a built-in mini computer and we create customized software for various purposes. We are very interested to learn how you would like your ideal pump to work. Very likely, we can come extremely close to it with a BLACK Edition pump from Xavitech.
# General Specifications

## Pump Model V200 Black Edition

**Permissible Ambient Temp**
0 - 55°C (Extended temp. range can be approved)

**Permissible Medium Temp**
0 - 55°C (Extended temp. range can be approved)

**Flow Media**
Air and gas. (Ask for compatibility)

**Wetted Parts**
EPDM and PPS (Other materials on request)

Other materials can change flow specifications, ask for information

**Capacitors**
Missing VCC capacitor can damage the pump. See electrical interface datasheet

**Connections**
Incorrect lead connection can damage the pump

**Filters**
To insure lifetime, air filters should be used in order to prevent contaminations like dust to enter the pump

**Flow Tolerances**
Flow can vary -/+ 5% of calibrated specification between individual pumps

**Vacuum and Pressure Tolerances**
Vacuum and pressure can vary -/+ 5% of calibrated specification between individual pumps

**Pump Flow**
Flow can only be in one direction and can not be reversed

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**General Flow Performance V200 Pumps**

Flow can be calibrated to deliver a certain flow at a certain vacuum level. Ask more about custom calibration.

**General Flow Curve of V200**

- Calibrated freeflow > 400 ml/min
- Maximum vacuum: > 350 mbar
- Maximum pressure < 100 mbar
STANDARD MODELS (Part number)

Xavitech can provide a number of pre-calibrated standard models. With the models the voltage and the max flow is calibrated to a standard value. The only thing that needs to be defined before the pump can be ordered is the lifetime of the pump. The chart below is the standard pumps models that Xavitech can offer. But custom calibration is also an option, please contact Xavitech for more information:

<table>
<thead>
<tr>
<th>MODEL</th>
<th>VOLTAGE (DC)</th>
<th>CALIBRATED FLOW (mL/min)</th>
<th>MAX VACUUM (mbar)</th>
<th>CONNECTION INTERFACE</th>
<th>ANALOG FLOW CONTROL</th>
<th>SERIAL INTERFACE (RS-232)</th>
<th>LIFE TIME (Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>V200-BF5V</td>
<td>5V</td>
<td>350</td>
<td>&gt;300</td>
<td>Flex cable</td>
<td>YES</td>
<td>YES</td>
<td>2000 to 35 000</td>
</tr>
<tr>
<td>V200-BF12V</td>
<td>12V</td>
<td>400</td>
<td>&gt;350</td>
<td>Flex cable</td>
<td>YES</td>
<td>YES</td>
<td>2000 to 35 000</td>
</tr>
<tr>
<td>V200-BF24V</td>
<td>24V</td>
<td>400</td>
<td>&gt;350</td>
<td>Flex cable</td>
<td>YES</td>
<td>YES</td>
<td>2000 to 35 000</td>
</tr>
<tr>
<td>V200-B3C5V</td>
<td>5V</td>
<td>350</td>
<td>&gt;300</td>
<td>3 Wires</td>
<td>YES</td>
<td>NO</td>
<td>2000 to 35 000</td>
</tr>
<tr>
<td>V200-B3C12V</td>
<td>12V</td>
<td>400</td>
<td>&gt;350</td>
<td>3 Wires</td>
<td>YES</td>
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Read more about how to control the pump flow with either analog signal or with serial interface and how to chose your custom calibration point in dedicated instructions at www.xavitech.com.