

### **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.

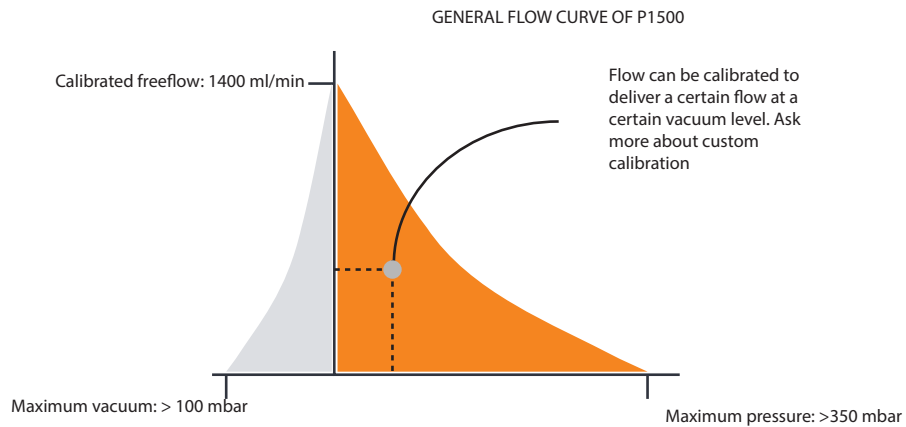
All systems are different and have different requirements. We believe that you the customer should be able to choose the service lifespan that exactly fits your system and business model, and not pay for a greater service lifespan than you actually need. To solve this problem, we created the BLACK Edition 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 FLOW PERFORMANCE P1500 PUMPS



PUMP MODEL	P1500 BLACK EDITION
PERMISSABLE AMBIENT TEMP	0 - 55 C (Extended temp. range can be approved)
PERMISSABLE MEDIUM TEMP	0 - 55 C (Extended temp. range can be approved)
FLOW MEDIA	Air and gas. (Ask for compability)
WETTED PARTS	EPDM and PPS (Other materials on request)
	Other materials can change flow specifications, ask for information
CAPACITORS	Missing VCC capactor 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

**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:

MODEL	VOLTAGE (DC)	CALIBRATED FLOW (ml/min)	MAX PRESSURE (mbar)	CONNECTION INTERFACE	ANALOG FLOW CONTROL	SERIAL INTERFACE (RS-232)	LIFE TIME (Hours)
P1500-BF12V	12V	1300	>300	Flex cable	YES	YES	2000 to 35 000
P1500-BF24V	24V	1400	>350	Flex cable	YES	YES	2000 to 35 000
P1500-B3C12V	12V	1300	>300	3 Wires	YES	NO	2000 to 35 000
P1500-B3C24V	24V	1400	>350	3 Wires	YES	NO	2000 to 35 000
P1500-B5C12V	12V	1300	>300	5 Wires	YES	YES	2000 to 35 000
P1500-B5C24V	24V	1400	>350	5 Wires	YES	YES	2000 to 35 000

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](http://www.xavitech.com).

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