

Sartocheck® Junior BP-Plus

For diffusion and bubble point integrity testing of membrane filter systems



Sartocheck Junior BP-Plus is an automatic, microprocessor-controlled tester designed to check the integrity of membrane filter systems and provide a hard copy of the test data and results. It measures the following upstream integrity values:

- The diffusion rate
- The bubble point

A special, built-in program is available for determining the net upstream volume of your filtration systems. A comprehensive test report is printed out to meet cGMP requirements.

To increase the clarity of the test and to ensure 100% traceability of the results, complete test parameters and conditions of the test are also printed on hard copy, including:

- Net upstream volume
- Test pressure (actual value)
- Pressure drop
- Test time and date

To program a test, simply enter the maximum allowable air diffusion rate and the minimum required bubble point specified by the filter manufacturer. You can use the Sartocheck Junior BP-Plus to determine the bubble point of disc filter systems, from syringe filter holders to 293 mm filter holders, and complete integrity tests (diffusion and bubble point) on capsules, mini filter cartridges and single standard filter cartridges up to 30" high.

Technical Specifications

Power requirements (mains) for battery charger:	220/240 V, 50 Hz 110/120 V, 60 Hz
Power supply:	7.2 V, 1.8 Ah
Maximum inlet pressure:	8 bar (120 psi)
Minimum inlet pressure:	1 bar over test pressure (14.5 psi)

Measuring Ranges

Test pressure:	100–6000 mbar (1.5–87 psi)
Net housing volume:	0.05–5 liters
Diffusion:	0–999 ml/min
Pressure drop rate:	0–200 mbar/min (0–2.9 psi/min)
Bubble point:	0.5–6 bar (7.3–87 psi)

Measuring Accuracy

Test pressure:	± 0.5% (of the max. value)
Pressure regulation:	± 0.4% (at 2.5 bar 36 psi)
Volume measurement:	± 5%
Diffusion measurement:	± 6%*
Bubble point:	± 0.1 bar (1.5 psi)

Operating Conditions

Constant ambient temperature:	+15° to +35°C
Storage temperature:	0° to +40° C
Relative humidity:	10–80%

Order Information

Order number:	16296
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* at 1000 mbar (14.5 psi) atmospheric pressure and with a pressure drop « test pressure

Integrity Testing

Sartocheck Junior BP-Plus features:

Test programs and data backup

Up to 3 test programs can be stored in the non-volatile memory of the Sartocheck unit; the program parameters are entered on the keypad. Data is backed up by the non-volatile memory.

Total test time

The Sartocheck Junior BP-Plus can complete a routine test in 8 minutes or less (includes both the diffusion and the bubble point) depending on the type of filtration system.

Continuous test updates

Continuous display updates of the momentary diffusion rate or the momentary pressure drop during a test cycle enable you to make a quick estimate of the integrity of your system during the first few minutes of the test. You can interrupt the test cycle at any time and automatically obtain a printout of the test results available up to this point.

Flushing the unit

You can flush the internal pneumatic unit any time using the built-in flushing program.

Languages

The Sartocheck Junior BP-Plus has built-in multi-language capabilities in English, German, French, Spanish and Italian. You can have the same test record printed out in several languages and obtain any number of copies.

Quality assurance

The high performance standards of Sartocheck Junior BP-Plus is assured over long periods:

- Easy calibration using the keypad
- Annual service maintenance contracts are available through our wide service network

User-friendly features

The unit is battery-operable, splash-proof and easy to handle. Its backlit display makes it easy to read the test results even in dark rooms. An acoustic signal indicates the end of the test, so operator attendance is not required. Red and green indicator lights can be seen at a distance for convenient pass or fail evaluation.

Validation

We will be glad to help you in getting your Sartocheck Junior BP-Plus validated. We can provide validation literature or validation services.

Data processing

Data processing: The interface diskette allows you to transfer the test data to an IBM-compatible PC.

Available Options:

- Computer interface cable
- Interface disk for IBM-compatible PC

Equipment supplied

- Sartocheck Junior BP-Plus Tester
- Tubing for compressed gas, inlet and outlet, with compressed air filter
- 1 liter external pressure tank, complete with pressure connections
- Battery charger
- Ink ribbon cassette and paper roll
- Installation and operating instructions, test and calibration certification

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