

# Sartocheck® 4

## Fully automatic integrity testing device



### Description

Sartocheck 4 is the consequent further development of the most successful filter integrity tester of its class, the Sartocheck 3. Based on the straightforward operator concept that distinguished its predecessor, Sartocheck 4's user-friendliness has been improved even more thanks to the following features:

- Touch screen
  - Rapid and direct program selection and data entry on the display
- Large, color TFT display
  - Clear and easy-to-read display data
- Standard PC keyboard design
  - Familiar keyboard design
- Online assistance
  - Immediate and direct help available in the display
- Straightforward menu guidance
  - Quick and reliable handling
- External Pressure transducer and external valves
  - Flexible operation
- Easy to clean
  - Cleaning and drying of the internal valve block and internal reference vessel

Sartocheck 4 performs the following tests:

- Bubble Point
- Diffusion
- Bubble Point and Diffusion (combination test)
- Pressure Drop Test
- Water Intrusion Test (WIT)
- Water Flow Test (WFT)
- Multipoint Diffusion Test

### In compliance with 21 CFR part 11

The electronic archiving of processing data is currently one of the most critical subjects. Doing full justice to this topical issue, Sartocheck 4 complies with 21 CFR Part 11 in all relevant points:

- User management:
  - The system administrator allocates individual access rights to every user. As soon as the user has logged in, all his actions are coded with his name and recorded in the audit trail.
- Data security:
  - Sartocheck 4 manages up to 100 test programs and 100 test results in an internal database. The user is requested to archive the results database onto a disk. This ensures that no data are overwritten or get lost.
- Audit trail:
  - The audit trail documents all GMP-relevant user actions. All warnings and errors are stored on the audit trail with a real-time stamp.

### Qualification

Sartocheck 4 qualification ensures that integrity tests to be conducted are carried out with high precision and accurate reproducibility. Our comprehensive Sartocheck 4 validation documentation provides the necessary support for the user. Our Technical Support Specialists are additionally available to help on-site.

### Technical Specification

Power requirements	100 – 240 V AC, 50/60 Hz
Maximum power input	74 watts
Maximum operating pressure	9999 mbar   145 psi
Minimum inlet pressure	4000 mbar   58 psi
Dimensions (W × D × H1 × H2)	460 × 390 × 140 × 245
<b>Measuring ranges</b>	
Test pressure	100–8000 mbar   1,5–116 psi
Pressure drop	1–2000 mbar   0,01–29 psi
System inlet volume –with internal ref. Vessel –with external ref. Vessel	9000 ml max. 100 l
<b>Measuring accuracy</b>	
Pressure	± 0,1 % full scale ± 9,5 mbar
Pressure drop	± 1 mbar
Volume determination	± 4 %
Diffusion	± 5 %
Water-Intrusion	± 5 %
Bubble Point	± 50 mbar   ± 0,7 psi
<b>Operating conditions</b>	
Ambient temperature	+15 °C to +35 °C
Rel. humidity	10 – 80 %
<b>Touch Screen</b>	
Size	10.4" TFT
Features	256 colors
<b>Communication Ports</b>	
Serial Port TU	RS232
Serial Port MU	RS485
PLC Port	binary signals 12 pins
<b>Language option</b>	
	English German French Spanish Italian

# Filter Integrity Testing

## Equipment supplied

Sartocheck 4	16288
Tubing for compressed gas inlet	18104
Tubing for compressed gas outlet	18103
Ribbon cassette	6982141
Rolls of printer paper	6982142
Sartocontrol CD	
Test certificate	
Calibration certificate	
Installation and operating instructions	
Mains lead (country specific)	

- 1: external reference tank
- 2: Venting 1
- 3: Out
- 4: Venting 2
- 5: In
- A: external Sensor
- B: external Valve



A B 1 2 3 4 5

## Accessories

External pressure transducer	1ZE---0021
External valve switchbox	1ZE---0013
External valve:	
NC	1ZE---0022
NO	1ZE---0023
Serial Port Interface cable TU/TU:	
0,5 m	1ZE---0008
2 m	1ZE---0009
5 m	1ZE---0010
Validation Package	16288---VP
Multiunit	16288---TU*
Cleaning Kit	16288---CK

- 1: main switch
- 2: 3,5" floppy drive
- 3: Serial Port TU
- 4: PLC Port



1 2 3 4

\* Available 04/04

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