

Sartocheck[®] WIT Trolley

Automatic Testing of Hydrophobic Filter Cartridges



Product Information

The Sartocheck[®] WIT Trolley has been developed to make integrity testing of hydrophobic sterilizing grade filters safe and easy in the pharmaceutical industry. Both Water Intrusion and Water Flow tests can be performed. A PT100 sensor measures the water temperature in the water tank and avoids testing with water out of the predefined temperature range.

Installation

Due to its unique design and its fully automatic two step filling procedure the WIT Trolley reliably reaches the test pressure despite height differences between the WIT Trolley and the filter being tested. All HIMA correlated hydrophobic sterilizing grade membrane filters can be tested. The external thermal compensated pressure sensor is installed on the top

of the housing and measures the pressure drop exactly where the intrusion | water flow take place, contributing to the accuracy of the test. During the measurement the filter housing is isolated by the pneumatic valves so moving the WIT Trolley during the measurement will have no incidence on the test value. The WIT Trolley provides the most robust and reliable in-situ testing of hydrophobic sterilizing grade vent filters.

No Cross Contamination

The Trolley uses the principle of one way flow. Once the Sartochek® 4 plus Filter tester has pressurized the water tank and filled the housing to a stable pressure the filter housing is isolated by the filling valve. The gas overpressure in the water tank is vented directly at the water tank and does not go back via the Sartochek® 4 plus Filter tester.

At the end of the integrity test the test water is drained via the draining valve directly at the housing and does not get in contact with neither the filling tubing nor the water tank.

In-line Steam Decontamination

The Trolley and its filling hose including valves can be steamed at a max temperature of 134 °C (266 °F). The SIEMENS PLC supervises the steaming temperature at the lowest point using a second PT100 sensor. If the steaming temperature increases too much the inlet valve is closed. If the steaming temperature decreases too much the steaming cycle is interrupted and an error message is given.

Test Flexibility

Although connected to the Trolley the Sartochek® 4 plus Filter tester can perform all types of standard integrity testing via the auxiliary output thus giving a total test flexibility. The Sartochek® 4 plus Filter tester can also be connected to up to four MultiUnits (please see separate data sheet) in order to perform additional tests in parallel.

PLC Connector and Integration

The Sartochek® 4 plus Filter tester or MultiUnit may be triggered by a 24V dry signal from a PLC. The Sartochek® 4 plus Filter tester printout clearly shows the difference between an integrity test that has been started by an operator from the touch screen | key board and via the PLC contact.

The WIT Trolley can thus be integrated into an automated process and deliver a "GO" or a "NO GO" for the subsequent process steps.

Sartorius Stedim Biotech Validation Package

The Sartochek® 4 plus Filter tester and its Trolley are both delivered with a comprehensive validation package including an IQ & OQ protocol that can be accomplished by qualified Sartorius Stedim Biotech personnel. Assistance for PQ can also be provided from the Sartorius Stedim Biotech Technical Support team.



- 1: Sartochek® 4 plus Filter tester
- 2: Pneumatic & hydraulic compartment
- 3: Electrical compartment
- 4: OP7 screen

Technical Data

Specifications

Power requirements 110 – 230 V AC
50 | 60 Hz

Maximum operating pressure 9999 mbar
145 psi

Minimum inlet pressure 4000 mbar
58 psi

Measuring Ranges

Test pressure (SC4+) 100 – 8000 mbar
1.5 – 116 psi

Test pressure (WIT Trolley) 100 – 6000 mbar
1.5 – 87 psi

Pressure drop 1 – 2000 mbar
0.01 – 29 psi

System max. inlet volume for volume determination

- with int. reference vessel 14 L
- with ext. reference vessel 150 L

Operating Conditions

Ambient temperature +15 to + 35 °C

Relative humidity 10 – 80%

Measuring Accuracy

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

Ordering Information

Description

Order Number

Sartocheck® WIT Trolley 26288---WITSIP

Equipment Supplied

Equipment supplied in 26288---WITSIP

Trolley 17005A---L--5501

Steamable hose with valve
battery for filling

Steam trap

Installation and operating
instructions

Validation package

Mains lead (country specific)

External pressure transducer 1ZE---0018

Sartocheck® 4 plus Filter tester 26288---FT

* The trolley can be ordered separately under the reference 17005A---L--5501
It can also be operated with a Sartocheck® 4 or a Sartocheck® 4 plus

Sales and Service Contacts

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