



Donaldson.  
FILTRATION SOLUTIONS

# Process Filtration From Pure to Sterile

## Filter Test Center

### MAIN FEATURES & BENEFITS:

- Integrity Test on sterile air/gas depth filters
- Integrity test on ventilation filters
- Integrity test on liquid depth filters
- Easy handling
- Fast and reliable results



### INDUSTRIES:



- Food and Beverage



- Chemical Industry



- Pharmaceutical Industry



- Biotech



- Environmental Industry

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Donaldson®  
Ultrafilter

## PRODUCT DESCRIPTION

The Donaldson Filter Test Center (FTC) serves to determine the filter efficiency of sterile and ventilation filters. It contains all the required components to perform an easy and safe test of filter elements. It has room in every lab due to its compact structure. The installed process computer takes over all of the important functions during the measuring process, resulting in an easy and clear operation for the user. The FTC is therefore suitable for series tests, as well as for occasional examinations of individual filter elements.

The process computer takes over the user guidance during the filter test, the monitoring of the overall system, the measured data recording and analysis and the subsequent logging of the test result via the built-in LCD screen or report printer.

The Donaldson FTC also contains the components that serve the aerosol production as well as the measurement of the aerosol concentration. All functions are monitored and controlled by a process computer, which is equipped with real-time capable multi-tasking software.

**This instrument is suitable for the testing of the following filter elements:**

- (P)-BE
- (P)-SRF
- (P)-SRF N
- Other sterile air/gas depth filters
- Liquid depth filters



The aerosol generator provides a constant supply of test aerosol. The test aerosol is checked by the system when the FTC is started and in fixed intervals.

The photometer measures the concentration of the test aerosol as well as the concentration of the aerosol filtered by the filter element to be tested. These are forwarded to the process computer.

## PRODUCT SPECIFICATIONS

### Product Specifications

<b>Connecting voltage*:</b>	230 V / 50Hz
<b>Power consumption:</b>	max. 50 W
<b>Storage temperature:</b>	5-50°C
<b>Operating temperature:</b>	15-35°C
<b>Relative humidity:</b>	max. 80 % to 31°C, dropping linear up to 50 % at 40 °C, not dewing
<b>Inlet pressure:</b>	min. 5 bar, max. 10 bar
<b>Maximum air consumption:</b>	35 l/min
<b>Test aerosol concentration:</b>	930 mg/m <sup>3</sup>
<b>Dimensions (LxWxH):</b>	470mm x 555mm x 330mm
<b>Weight:</b>	32 kg

\* Alternative voltage versions on request.

## MAINTENANCE AND HANDLING RECOMMENDATIONS

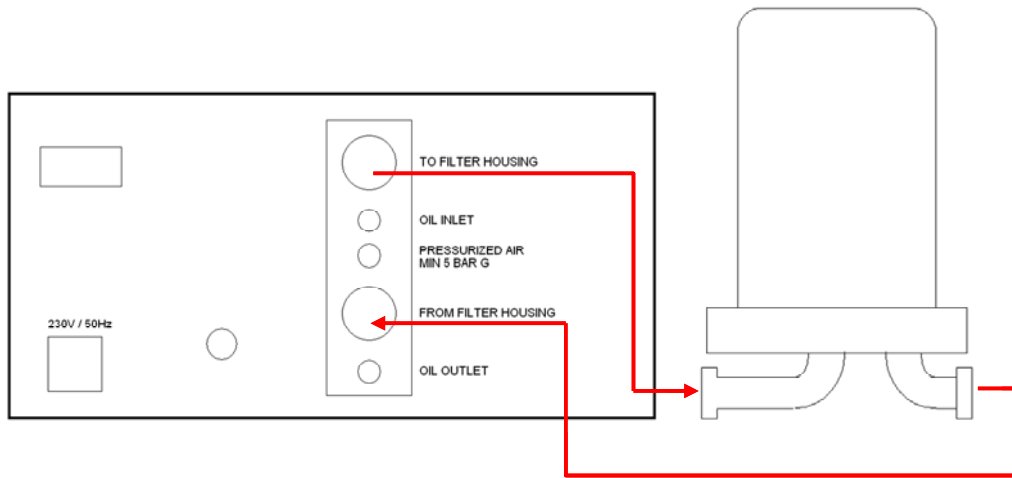
Compressed air supply: At least 5 bar (maximum of 10 bar) at a minimum of 40 l/min, dry air, free of oil and particles.

Please look for a suitable set-up location - possibly without

- any heat effects
- drafts
- shocks
- aggressive surroundings (the FTC may not be used in an explosion-prone area)

Do not expose the equipment to extreme humidity over an extended period. Undesirable dewing (condensation of humidity on the equipment) may occur, if cold equipment is brought into essentially warmer surroundings. In this case, acclimatize the equipment for approx. 2 hours to the room temperature after disconnecting it from the power supply. If the equipment is left switched on, a moisture effect can be eliminated due to the continuously positive temperature gradient between the interior of the equipment and the surroundings.

## TEST DESIGN AND TEST RESULT



A test report is generated on the report printer during the filter measurement.

FILTER TEST CENTER	
<u>Filter test</u>	
SRF filter	
04.11.2008 12:34:56	
Filter type: _____	
Production line: _____	
Number of sterilization cycles: _____	
Operator: _____	
<u>Test result:</u>	
Filtration efficiency:	100.00000 %
Filter:	o.k.

## DELIVERY SCOPE

The delivery scope of the FTC contains the following single components:

- 1 Filter Test Center
- 1 Power cable
- 1 Compressed air hose 1.5 m
- 1 Rico hose coupling with ¼" male thread
- 2 Aerosol hoses of 1.5m each
- 1 Oil refill syringe with adapter
- 200ml Paraffin oil
- 1 Operating instruction manual

A serial bus is available on request.

Technical alterations reserved 04/2009

- For further information on this test equipment or additional test services, please contact your Donaldson Sales Engineer and visit our website at [www.donaldson.com](http://www.donaldson.com)!

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