



TESTING SOLUTIONS

AIR INTAKE FILTER TEST BENCH

B_22310



B_22310 test bench is designed to execute test according to ISO5011.

Test capability:

- Absolute filter – test method
- Starting efficiency
- Ending efficiency
- Capacity
- Dust powder ISO 12013-A2
- Water contamination and efficiency.

Test specimen can be paced:

- Into dedicated duct (if complete housing filter is used)
- Into dedicated fixture (if just membrane filter is used).

A laminar flow meter measures air passing through filter.

Delta pressure across filter in test allows to evaluate the efficiency.

During test all these parameters are recorded:

- Ambient pressure and temperature
- Relative humidity
- Filtration capacity
- Gravimetric efficiency.

To simulate real working conditions, during test, a gravimetric dispenser, injects powder into filter duct, with precise quantity. Clogging the filter.

Operator can records realtime all the filter parameters choosing a constant flow or a constant delta-pressure test.

The test bench is equipped also with a water injection system to test filters when wet.

TECHNICAL DATA:

- | | |
|---------------------|-----------------|
| • Temperature | 23 ± 5 °C |
| • Relative humidity | (55 ± 15) % |
| • Flow | up to 2000 m³/h |
| • Pressure (diff.) | 175 mbar (max) |

INSTRUMENTATION:

- | | |
|------------------------------------|--------------------------|
| • Precision balance | 6,1 Kg, 0,01 gr acc. |
| • Flow meter | 0 ÷ 64 m³/h, 1% acc. |
| • Barometric transducer | 0,08 ÷ 0,12 MPa, cl. B3 |
| • Differential pressure transducer | -0,01 ÷ 0,25 MPa, cl. B3 |

SAFETY DEVICES:

- Open doors interlock
- Test area with metal lids against shots
- Emergency mushroom button
- Test shuts down if component failure, oil leakage or test bench warning

POWER SUPPLY:

- | | |
|------------|-------------------------|
| • Electric | 400 Vac - 50 Hz – 20 kW |
| • Air | 6 bar |

DIMENSIONS AND WEIGHT:

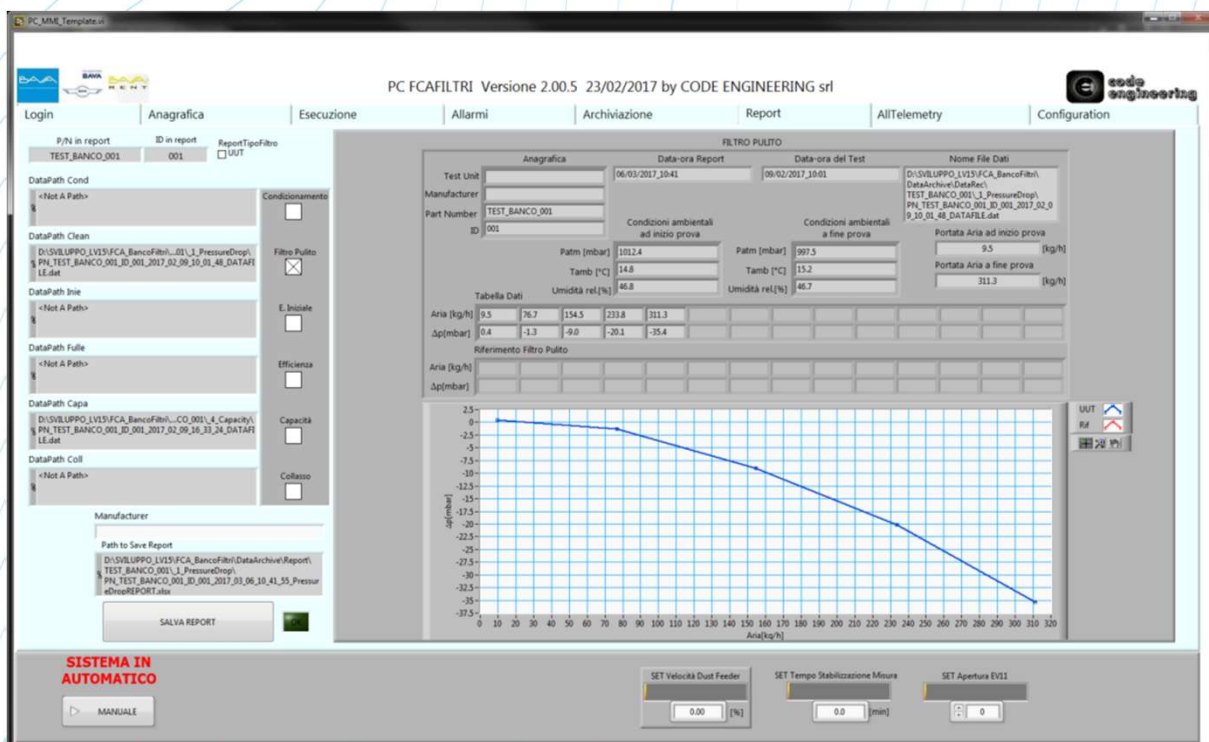
- | | |
|------------|-----------------------|
| • L, p, h | 3600 x 1500 x 2100 mm |
| • Raw load | ~ 2150 kg |

COLORE:

- Standard Gray 7035

NOTE:

- Fluid and adapters not included



The test stand is equipped with a PC and NI data acquisition system.

PC software can sets test profile and create a complete test report.

The test bench meets Industry 4.0 requirements.

Via internet connection it allows you to:

- Interface with external software to be able to obtain information on the status of the bench and carry out control and management operations of it;
- Take advantage of the remote assistance service by the BAVA technicians;
- Remote control of the bench compatibly with the permissions of the corporate network.

GUI is customizable in multiple languages