

FI v3.2

FILTERABILITY TEST UNIT

USER MANUAL

1. TECHNICAL SPECIFICATION

Power supply	12V - 2A
Operating temperature	from +1 to +50 °C
Nominal capacity	4Kg
Tank capacity	800 ml
Maximum operating temperature	8 Bar
Filter \varnothing	47 mm



1.1. GENERAL FUNCTIONS

FI instrument runs Filtrability Index test / average filtrability / Vmax for evaluating filtering system clogging according with theory of gradual pores clogging

COMPONENTS

- scale / instrument body
- manometer
- pressure regulation
- \varnothing 47mm filter holder
- manual valve with connections
- tank
- power supply 12v
- usb cable



a



b



c



d



e



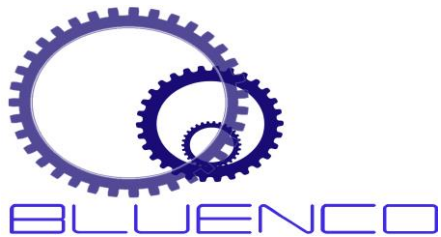
f



g



h



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2. CONNECTIONS AND ASSEMBLING

2.1 ASSEMBLING

A) Install the tank



B) Install the manual valve

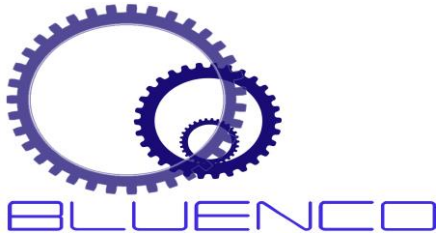


C) Install filter holder



D) Connecting air pipes





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2.2 ASSEMBLING OF FILTER

E) Unscrew stainless steel holder



F) Positioning the filter on the holder base



G) Screwing the two parts of filter holder paying attention that o-rings are in the right position



ELETRIC POWER CONNECTION

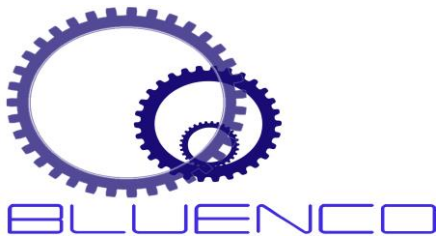
Connect (220v - 12v) to the POWER IN

AIR COMPRESSED CONNECTION

Connect air compressed to INLET using Rilsan 6 mm pipe

PRESSURE TEST REGULATING

Acting on the regulator positioned on the back side of the instrument (picture C) compressed air pressure can be regulated. Manometer positioned in the frontal part of the instrument (picture B) allows pressure reading.



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3. SWITCH ON

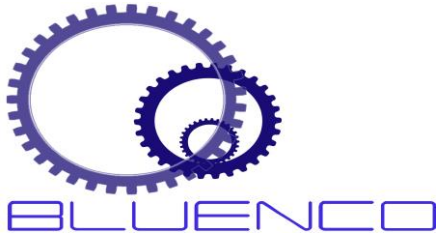
- ✓ Connect power supply 220v
- ✓ **Blu led** switch on: USB connection ON
- ✓ **Red led** switch on: pneumatic system ON

4. INSTALLATION AND USE OF SOFTWARE (control panel)

The instrument uses software FI for the acquisition and elaboration of data and it uses “plug and Play” technology

SYSTEM REQUIREMENTS

WINDOWS: minimum resolution 800x1100, usb 2 / 3, OS windows 10



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CONTROL PANEL

- ✓ Launch software “FI”
- ✓ Connect FI to usb port. (PC recognizes FI and automatically opens the main window for test execution)

WARNING!: always remember to launch “FI” software before connecting instrument to USB plug

DATA INSERT

In the white spaces insert following data:

- ✓ Sort of fluid (optional)
- ✓ Density
- ✓ Sort of filter (optional)
- ✓ Lot number (optional)
- ✓ Filter sample diameter
- ✓ Porosity of the filter
- ✓ Pressure
- ✓ Liquid quantity
- ✓ Test timing

BUTTONS FUNCTION

- | | |
|----------------|------------------------------------|
| A) START | test execution start |
| B) STOP | test execution stop |
| C) TARE | scale tare |
| D) SAVE | jpg format screen saving |
| E) GAS OPEN | compressed air opening in the tank |
| F) GAS RELEASE | compressed air purge from the tank |

5. TEST EXECUTION PROCEDURE

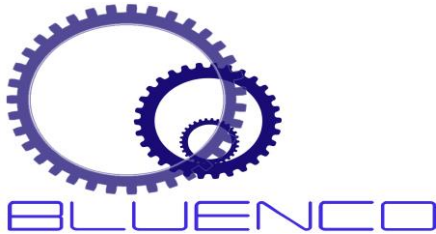
1. Switch on the instrument
2. Position a container on the scale where the filtered product shall be collected.
3. Install a new 47 mm filter in the filter holder
4. Install filter holder
5. Fill the tank with liquid to be tested
6. Check/insert the requested data.
7. Push button “START” for starting the test

TEST RESULTS:

- IF
- IFM
- Vmax
- Flow

- ✓ IN CASE OPERATOR DESIRES STOPPING THE TEST BEFORE THE END, BUTTON “STOP” SHALL BE PUSHED
- ✓ IT’S POSSIBLE TO SAVE SCREEN AS .JPG FILE ANYTIME INCLUDING DURING TEST RUNNING

WARNING! Instrument was calibrated with maximum accuracy using specific certificates. Anyhow it’s advisable a new calibration after 12 months.



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It is advisable to follow carefully the directions for use of the equipment. Taking actions not indicated in this manual, it might affect the smooth operation of the instrument as the balance connected to it.



The instrument has one-year warranty and NOT TO BE OPENED BY THE USER for any reason.

Any attempt to repair or modify the unit exposes the user to the danger of electric shock and will void any warranty condition.

Any problem with the system must be notified to the manufacturer or retailer where it was purchased.

In any case, **DISCONNECT POWER SUPPLY** before taking any action.

The instrument is isolated from the area to dangerous voltage and user accessible parts.

1. Did not pour liquids on and / or on the control console.
2. Do not use solvents to clean the indicator and / or the control panel.
3. Do not expose the instrument to direct sunlight or heat sources

Place the instrument and the weighing platform on a vibration free table.

All connections must be made respecting the rules applicable in the area and in the installation. Anything not specifically described in this manual is to be considered as improper use of the equipment. Do not install in an environment with danger of explosion.



The product at the end of its useful life must be taken to recycling centers, or to the reseller at purchase of an equivalent new product.