

BP-Rumore

NOISE TEST BENCH

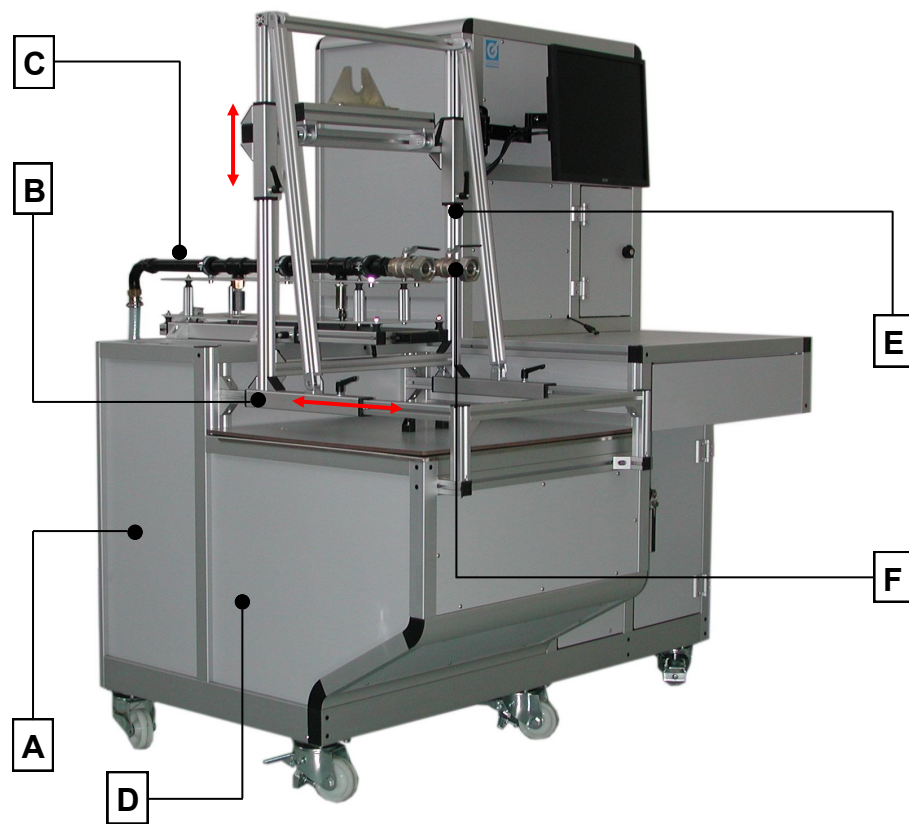


Applications:

- *Measurement of the noise produced by taps and hydraulic appliances used in water distribution plants.*

BP-Rumore

NOISE TEST BENCH



MAIN TECHNICAL SPECIFICATIONS:

- A. Supporting structural frame made of aluminium and laminated panels.
- B. Moving carriage with test rig and transducer.
- C. Test plant with pipes with sections and dimensions in compliance with the Standards.
- D. Internal pump with inverter control and water recovery tank.
- E. Measurement tube mounted on sliding supports that can be shifted in height.
- F. Test inlets in stainless steel with 150 mm pitch, construction according to International Standards with connection for pressure transducer and for hydrophone.

Hydrophone specifically designed to be used for noise measurements in fluids.

Analogical acoustic noise meter, with A weighting, selector for slow & fast functions, field 0÷117 dB, max error ± 1 dB.

Acquisition card for supply and signal conditioning through dedicated software.

Other accessories:

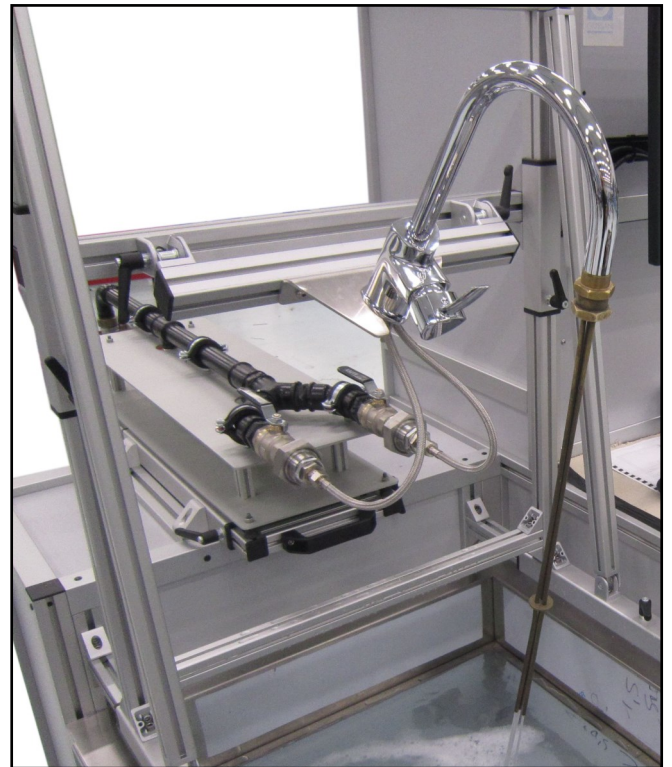
- KIT adaptor for hydraulic resistances.
- KIT tubular hydraulic resistances of class A/S/B/C/D in wooden box.
- N.1 sample noise generator (45 dB) according to IEN ISO 3822-1 standard.

INSTALLED MEASURING INSTRUMENTS:

Temperature: accuracy $\pm 0,3$ °C, resol. 0,01 °C, Pt100 probe 3 wires.
Pressure: accuracy $\pm 0,05$ bar f.s.v., resol. 0,01 bar, range 0÷10 bar.
Flow rate: accuracy $\pm 0,25$ % r.v., resol. 0,01 L/min, range 0,1÷47 L/min.
Noise: accuracy $\pm 0,5$ dB at 45 dB, resolution 0,1 dB, range 0÷117 dB.

APPLICATIONS:

This test bench is used for R&D of sanitary taps, valves and hydraulic components or to compare different products. The test rig is designed in compliance with EN ISO 3822 standard, the noise is measured by using a specific microphone inserted into the pipe, so it is possible to carry out the measurement of the noise produced by taps and hydraulic appliances used in water distribution plants. This method is in compliance with EN ISO 3822 Standard and avoids the construction of an anechoic room. It is possible to operate in laboratory because the ambient background noise doesn't influence the measure. The bench can not be used for official measures.



TECHNICAL DATA

Length:	1500 mm
Depth:	1500 mm
Height:	1800 mm
Weight (approx.):	350 kg
Electrical supply:	400 V 3Ph+N+G - 50 Hz
Power:	2,0 kW
Flow rate:	0,1÷47 L/min
Water temperature:	Ambient



GIUSSANI S.r.l.

Via dei Crederi, 411
24045 Fara Gera d'Adda (BG) - Italy
Tel.: 0363/399019 - Fax.: 0363/398725

www.giussanionline.it

E-mail: info@giussanionline.it



CERTIFICATION:

All the instruments are supplied with final testing, stability and accuracy certification traceable to Accredia standards.