



BTM4

LABORATORY EQUIPMENT FOR THE MULTIFUNCTIONAL TEST OF VACUUM CLEANERS BODIES

Caratteristiche

Equipment composed of a wheeled monolithic structure comprising:

- The housing for the vacuum cleaner body inside a safety protection;
- A negative pressure case, provided with a variable diaphragms system;
- Measurement sensors of test units and ambient climatic ones.
- A cabinet containing the electric supply, and the measuring electronic that supports the control PC and the printer.

Available tests:

- according to airflow rate q (dm^3/s) tracing of characteristic curves:
 - h ($\text{mm H}_2\text{O}$) = chamber negative pressure
 - P_a (W) = absorbed power
 - P_r (W) = output power
 - η = efficiency;
 - n = r.p.m.
- calculation of the rating plate power (average);
- determination of the temperature change of the rotor and stator windings after a preset operation time;
- execution of operational control cycles for brushes and collector wear.
- as optional, mechanical and vibration noise level quality analysis.

Provided with human interface, in different languages, on Windows XP platform.

Reports filing in Excel format.

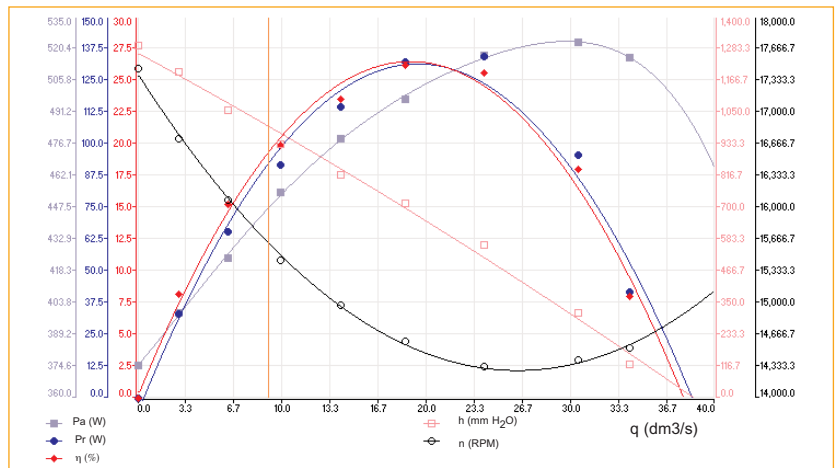
Calibration certificates and procedures in place for all the measure channels.

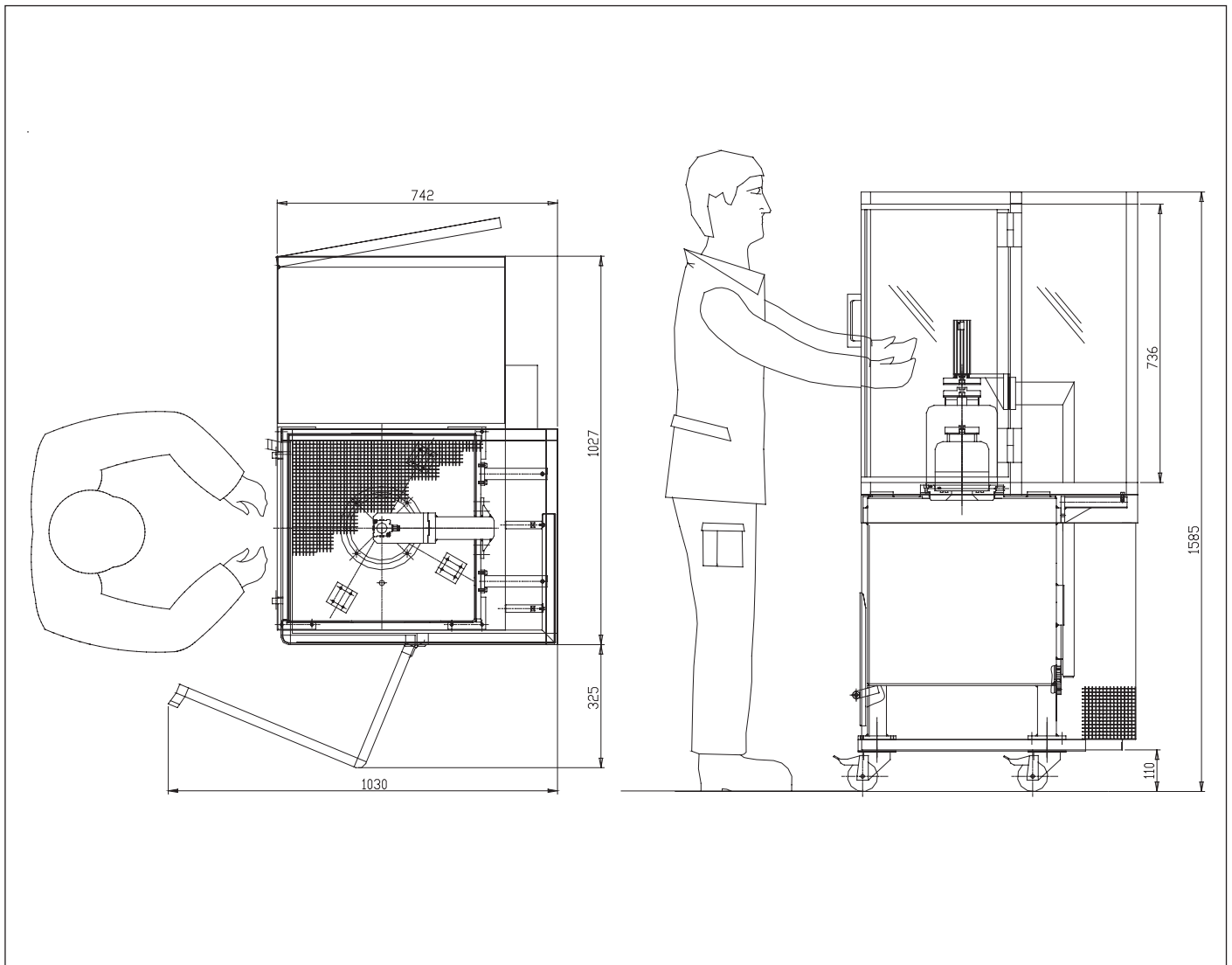
Access password and diagnostic programs.



Advantages

- Easy to handle
- Complete
- Easy to use
- Customised results
- Low cost maintenance
- Certified
- Safe





Technical data

Power supply	220-240V 50/60Hz
Power	3 kW
Maximum power of motors to be tested	2 kW
Voltage of motor to be tested	110-260 Vac (12-24Vdc * optional)
Loading diaphragm that can be set	50, 40, 23, 19, 16, 13, 10, 6,5, 0 mm
Stabilized test voltage that can be set	10 to 260Vac with continuous adjustment
Measured ambient parameters	Temperature, Pressure, Humidity
Measured direct parameters	Terminals supply current and voltage, cosfi, active power, negative pressure, rpms, actual power at the outlet nozzle, outlet nozzle airflow rate
Calculated indirect parameters	Airflow rate, output power, efficiency
Characteristic tests	Characteristic curve Average power Temperatures Delta Brushes wear Vibration * optional
Basic languages	Italian, English, German, French, Spanish

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