PERMEABILITY TEST BENCH

BTPERM

1



SIMPLIFIED USER MANUAL



GENERAL SPECIFICATIONS

Measure ranges:	
Pressure	0 - 1 Bar,
Accuracy.	0.2% F3,
Air flow	0 - 1 L/min,
Accuracy:	0.1% FS,
Air temperature	0 - 50°C.
Accuracy:	1% PE,
Permeability calculated	0.1 - 25 Nperm,
Samples:	
Nominal diameter:	50mm +/-2%
Height nominal:	50mm +/-2%.

Interface:

- 1 Panel PC with 17"touch screen for management of process,
- 3 USB sockets (including one on front side),
- 1 Ethernet Plug,
- 1 Main cut-out switch,
- 1 luminous start button,
- 1 button to start again in order to facilitate the installation of the sample,
- 1 button for ejection by air of sample in place,
- 1 reset button for emergency stop,
- 1 sample support 50mm equipped with its protection cover,

Test limit:

Max.pressure loss: Max.flow: 1 bar, 1 l/min,

Supply:

Electrical: Air pressure: 115Vac/230Vac, 50-60Hz, 4 bar minimum,

START-UP

The start-up of the test bed is carried out by holding down the luminous "START" button located on the right front side, until the small green indicator on the top of the screen ignites. If "START" is not lit, to check that the bed is well connected to the sector opposite on the rear side and that the "CUT-OUT SWITCH" on the right side is in position I

On start-up of the bed, the test software of permeability is automatically set and ready to function.



SOFTWARE : Tree structure of program

C: \BTPERM

BTPERM.exe permeability.cfg **Reports** calibrations.xls **Traces** permeability.trx **Maintenance** main file obligatorily under root C: software file backup file for software configurations file containing test reports for measurement series and benchmark file file containing test results of each calibration of start of series file containing the test reports of the measurement series temporary file of system traces (Use of SEREM) file containing maintenance applications (Use of SEREM)

SOFTWARE : Main menu





SOFTWARE : Parametering of system





SOFTWARE : Measurement series











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RESULTS
Temperature 22,5 °C Ambient temperature
Pressure 71,750 hPa
Output 9,916 cl/min
Permeability 2,1353 Nperm
RESTART START SERIES CANCEL SERIES Display of measurements and test result of benchmark.
PARAMETRES OF SAMPLE
Reference Sample 01

Reference	_Sample 01		
Height	99.95		mm
Diameter	49.98		mm
	VALIDATE	CANCEL	
rametering of fol	llowing sample.		



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INSTALLATION OF A SAMPLE

To introduce the sample (a) into the sample holder (b) using button (c) while pressing on empty button (d) Once button stopped, to release empty button and to give short blasts on the ejection button (e) in order to ensure that sample is making contact on pressing button; i.e. that it is not too far in the sample holder (*Figure 2*) **Caution!** If not (*Figure 3*), the action taken will be wrong and the seal likely to be damaged.







Diagram 3

