AIR TRONIC PLUS



AIR TRONIC PLUS is a fast and silent electronic instrument to determine the air permeability (meant as speed of the air flow vertically passing through the sample under preset and known testing conditions) of woven, knitted and non-woven fabrics, industrial fabrics for technical use, artificial leather, felt, velvet and paper. It can calculate also the average pore size of woven fabrics, a unique feature important for the filtration industry, their evaluation and classification.

AIR TRONIC PLUS is equipped with wheels, as well as a user-friendly touch screen display, a built-in suction unit with cooling system (granting a noise level reduction of about 20-30 dB, in comparison with the "standard models"), and a digital Flux Meter (to perform fast tests). The air permeability value is expressed in mm/sec. and, thanks to the different testing template areas supplied with the instrument, the air permeability range is extremely wide and goes from a minimum of 1.4 mm/sec up to a maximum of 8056 mm/sec**. The air permeability value can be also expressed in m/sec. and l/minutes.

Code	Depressure [10 Pa = 1 mm H_2O]		Air flow	Flux meter	Standard Test Area	Optional Test Area
	Pa	mm H₂O	l/h (min-max)	cm²	cm²	cm²
3240D	0-900	0-90	50-5800	Digital	2-5-10-20-50-100	38*
3240E	0-2500	0-250	50-5800	Digital	2-5-10-20-50-100	38
3240C	0-2500	0-250	6500-100000	Analogic	5-20-25-50-100	38

^{*} Conforms to ASTM D737 and JIS L1096-A Standards, which require 2500 Pa capacity range.

Remarks: bench models are also available on demand, i.e. Code 3240A (instead of Code 3240D), and Code 3240B (instead of Code 3240E).

^{**} The air permeability range of model 3240C (special high capacity model available on demand), goes from a minimum of 180 mm/sec up to a maximum of 55555 mm/sec.



AIR TRONIC PLUS CODE 3240C, 3240D, 3240E

Description / Testing procedure

The instrument is operated through a user-friendly touch screen display, that allows the operator to set and enter the following test parameters:

- Testing area (expressed in cm²).
- Pressure drop, expressed in Pascal, continuously adjustable (from 0 Pa to the max. value of 900 Pa for model 3240D, and up to the max. value of 2500 Pa for models 3240C and 3240E).
- Air permeability measuring unit (expressed in mm/sec., m/sec., l/min.).
- Measuring volume (either 10 litres or 100 litres must be selected).

At the end of the testing procedure, a test report can be printed by means of the built-in Micro printer (Code 3240.2), available as optional.

Testing guidelines

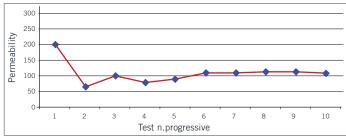
Instrument Testing area		Measuring range	Suggestions	
	2 cm ²	from 69.4 to 8056 mm/s	very low density knitted fabrics	
	5 cm ²	from 27.8 to 3222 mm/s	low density knitted fabrics	
3240D - 3240E	10 cm ²	from 13.9 to 1611 mm/s	high density knitted fabrics	
324UD - 324UE	20 cm ²	from 6.9 to 806 mm/s	woven fabrics	
	38 cm ²	from 3.7 to 424 mm/s	woven and knitted fabrics	
	50 cm ²	from 2.8 to 322 mm/s	industrial fabrics and heavy velvets	
	100 cm ²	from 1.4 to 161 mm/s	very low air permeability value	
	5 cm ²	from 3611 to 55555 mm/s	low density knitted fabrics	
	20 cm ²	from 903 to 13889 mm/s	woven fabrics	
3240C	25 cm ²	from 722 to 11111 mm/s	very high density knitted fabrics	
	38 cm ²	from 475 to 7310 mm/s	industrial fabrics and heavy velvets	
	50 cm ²	from 361 to 5555 mm/s	industrial fabrics and heavy velvets	
	100 cm ²	from 180 to 2778 mm/s	very low air permeability value	

Testing areas listed above - except for the 38 cm² area - are included

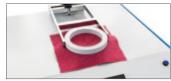
Included accessories

- · Calibration template, to check calibration.
- · Reduction area templates, to carry out tests on samples of different permeability.
- · Digital flux meter, Code 3240.20, for fast testing (only for 3240D and 3240E).

Example of printed report (graphic)



START TEST SAVED RESULTS SETTINGS



Example of test report

MESDAN SPA Raffa di Puegnago (BS) ITALY TEST REPORT Date 08/06/2017 Operator: Lab Material: Poly Supplier: Example 1 Code No.: 12345 Sample No.: 5 Notes: Example 2 T.1 12,7 Lt/min T 2 12.8 I t/min T.3 13 Lt/min T.4 12.7 Lt/min T.5 12,9 Lt/min 12.7 T.6 Lt/min T 7 129 Lt/min T.8 12.8 Lt/min T.9 12,9 Lt/min 12.7 T.10 Lt/min

OPTIONAL ACCESSORIES

Calibration report of control template	code	3240.CC2
Template Area adapter for 38 cm ² ASTM Standard	code	3240.8
Seal Fixing Ring 50 cm ² area, for sample thickness up to 10 mm, recommended to avoid air leaks when carrying out tests on industrial fabrics and havy velvets	code	3240.6
Seal Fixing Ring 100 cm² area, for sample thickness up to 10 mm, recommended to avoid air leaks when carrying out tests on synthetic leather and microfibres fabric	code	3240.10
Seal Fixing Ring 100 cm² area, for sample thickness over 10 mm and up to 20 mm, recommended to avoid air leaks while testing high thickness samples	code	3240.26
Seal Fixing Ring 50 cm² area, for sample thickness over 10 mm and up to 20 mm, recommended to avoid air leaks while testing high thickness samples	code	3240.28
Built-in Micro printer (to print test results)	code	3240.2
Data management Software	code	3240A.12
PLC Software Option for average pore size calculation	code	3240.30
Automatic pressure drop regulation (for self-regulation at set point - except for 3240C)	code	3240.22
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CONTROL LAB: Laptop (Code 2532.150), or - as alternative - Personal Computer (Code 237.92); Monitor (Code 250.300); Ink Jet Printer (Code 250.4); UPS -Uninterruptible Power Source (Code 2341.900)

GENERAL CHARACTERISTICS

- · Measure units: mm/sec, m/sec, I/min
- · Pressure drop: continuous set
- Standard cup configuration: test area 100 cm²
- · Standard test area for Code 3240C: 5 20 25 50 100 cm²
- · Standard test area for Code 3240D and Code 3240E: 2 5 10 20 50 100 cm²

Signature

REFERENCE STANDARDS

- · Code 3240D: UNLEN ISO 9237
- Code 3240C and Code 3240E: UNI EN ISO 9237, UNI EN ISO 9073-15, UNI EN ISO 7231, ASTM D737, ASTM D3574, JIS L 1096 meth A, NWSP 070.1 RO (15)

DIMENSIONS / POWER SUPPLY

Weight: 76 kg Dimensions: (L) 620 x (W) 620 x (H) 1170 mm Power supply: 230 Vac, 50/60Hz single-phase

Photographs and descriptions of the present leaflet have to be considered as purely indicative and not binding

