AIR TRONIC



Air-Tronic is an electronic instrument to determine the air permeability (meant as speed of the air flow that passes vertically to 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.

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.

* model 3240C the air permeability range is from a minimum of 180 mm/sec up to a maximum of 55555 mm/sec.

Mesdan code	Depressure [10 Pa = 1 mm]		Air flow	Mass meter	Test Area standard	Test Area optional
	Pa	mm H₂O	I/h (min-max)	l/h (min-max)	cm²	cm²
3240A	0-900	90	50-5800	10-100	2-5-10-20-50	100
3240B	0-2500	200	50-5800	10-100	2-5-10-20-50	38-100
3240C	0-2500	200	6500-100000	0-900	5-20-25-50	38-100

Remark: special enhanced SILENT models available (approx. 20-30 dB level reduction), **code 3240D** (instead of **code 3240A**) and **code 3240E** (instead of **code 3240B**).



AIR TRONIC

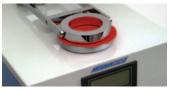
Description / Testing procedure

The instrument is operated through a control panel that allows the operator to set the following test parameters:

- Testing area: the testing area value must be inserted, expressed in cm².
- · Pressure drop: the pressure drop must be inserted, expressed in Pascal (adjustable continuously from 0 Pa to the max value 900Pa).
- · Air permeability measuring unit: select the desired measuring unit (mm/sec., m/sec., l/min.).
- Measuring volume: either 10 litres or 100 litres must be selected.

When a test is finished, by pressing a special key a test report with all test data can be printed (on the printer code 3240.2 that is supplied as optional).





Testing guidelines

Included accessories

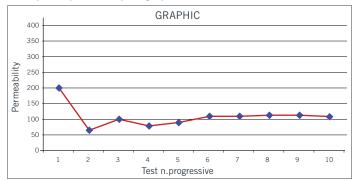
- · Calibration template, to check calibration.
- · Reduction area templates, to carry out tests on samples of different permeability.

Instrument	Testing area	Measuring range	Suggestions		
	2 cm ²	from 69.4 to 8056 mm/s	very low density knitted fabrics		
3240A - 3240B	5 cm ²	from 27.8 to 3222 mm/s	low density knitted fabrics		
	10 cm ²	from 13.9 to 1611 mm/s	high density knitted fabrics		
	20 cm ²	from 6.9 to 806 mm/s	woven 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		
	50 cm ² from 361 to 5555 mm/s industrial fabrics and		industrial fabrics and heavy velvets		
	100 cm ²	from 180 to 2778 mm/s	very low air permeability value		

Example of printed report

AIR PERMEABIL	ITY REPORT	TESTS RESULTS				
Date [ggmmaa]		Test n.progressive	Test results	S= 50Cm ²		
Time [hhmm]		1	200	sec.	61,63	
		2	65			
Stock Nr.		3	100	lt/min	9,7355184164	
T+ N		4	80			
Test Nr.		5	90	It/min.m ²	973,5518416356	
Material		6	110			
		7	112	It/sec.m ²	16,2258640273	
Operator		8	114			
Test result	32,45173	9	115	mm/sec	16,2258640273	
		10	111			
Time sec.	61,63	AVERAGE	109,7	m/sec	0,016225864	

Example of printed report graphic



OPTIONAL / ACCESSORIES

Calibration report of control template	code	3240.CC1
Template Area adapter for 38 cm2 ASTM Standard (not available for 3240A)	code	3240.8
Special seal fixing ring for 50 cm² samples: recommended to avoid air leaks when carrying out tests on industrial fabrics and heavy velvets	code	3240.6
Special seal fixing ring for 100 cm² samples: recommended to avoid air leaks when carrying out tests on synthetic leather, microfibres fabric.	code	3240.10
Micro printer: for the printing of test results	code	3240.2
Data management Software	code	3240 A.12
Connection cable	code	2510.836

Control Lab, personal computer code 237.92, monitor code 250.300 ink jet printer code 250.4,uninterruptible power source UPS code 250.306,or as alternative choice laptop code 2532.150 ink jet printer code 250.4; UPS code 250.306

Photograph and description of the present leaflet have to be considered as purely indicative and not binding Rel. En 2015-11

GENERAL CHARACTERISTICS

- Measure units: mm/s, m/s, I/min
- · Pressure drop: continuous set
- · Standard cup configuration: test area 100 cm²
- \cdot Test area standard for code3240A and code 3240B: 2-5-10-20-50 cm²
- · Test area standard for code3240C: 5 20 25 50 cm²

REFERENCE STANDARDS

- code3240A: UNI EN ISO 9237, UNI EN ISO 7231, BS 5636, DIN 53887, AFNOR G07-111, JIS L 1096 A, EDANA 140.1, TAPPI T251
- code3240B code3240C: UNI EN ISO 9237, ASTM D737, UNI EN ISO 7231, ASTM D3574, ASTM D726, BS 5636, DIN 53887, AFNOR G07-111, JIS L 1096 A

DIMENSIONS / POWER SUPPLY

Weight: 30 Kg Dimensions: (L) 390 x (W) 450 x (H) 540 mm. Power supply: 230 Vac, 50/60Hz single-phase

