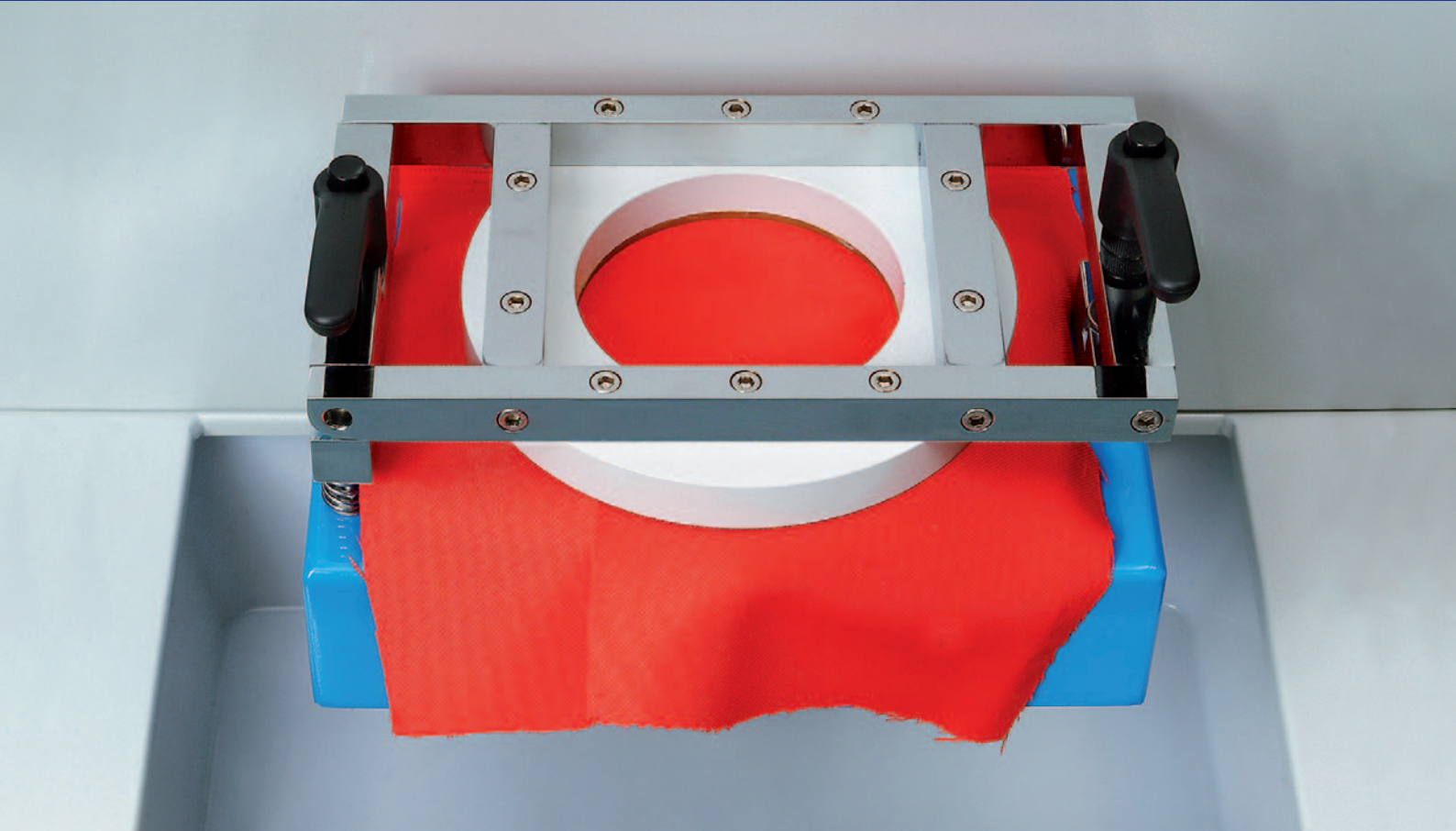


HYDROSTATIC HEAD TESTER - WATER PERMEABILITY TESTER

WATER PROOF



The **Water Proof** is conceived to analyse the water permeability under **static** and **dynamic** testing conditions of a wide range of textile materials. It indicates and displays the water column pressure at the moment in which the first water drops appear on the fabric's surface.

Suitable to:

- test and rate the water permeability limits of different materials
- establish the minimum pressure that induces water passage through the specimen
- measure the time (duration) of impermeability under a known, fixed, pressure

Different models available, up to 50 m water columns height.

WATER PROOF

CODE 3241C, CODE 3241D, CODE 3241E

Technical features:

- tests quickly and accurately water permeability and resistance to water penetration on a variety of materials, such as fabrics for garment, technical and coated fabrics, nonwovens, etc.
- conforms to both dynamic (EN ISO 20811 Standard), and static method (UNI 5123 standard).
- standard test area is 100 cm². Other test areas (10 cm², 26 cm² and 28 cm²) are available for testing small samples following wear/abrasion tests (optional).
- equipped with touch screen display, for the settings of the test parameters.
- built-in printer available (optional), for the printout of single test reports.
- electronic PLC for the storage of the last 10 tests. Software (optional) allows to export data to Excel, for further statistical elaboration.
- freely programmable water pressure speed setting making the Water Proof an ideal tool for R&D purposes.

Three available models:

- Code **3241C**, measuring range **up to 10 m/H₂O** (1 mm precision) of water column height
- Code **3241D**, hydrostatic head tester, measuring range **up to 20 m/H₂O** of water column height, endowed with two scales:
 - 1st scale: pressure 0-1 m/H₂O (1 mm precision); suitable for regular fabrics;
 - 2nd scale: pressure 0-20 m/H₂O (10 mm precision); suitable for performance fabrics, technical fabrics, coated fabrics, non-wovens, etc.
- Code **3241E**, equipped with high power pneumatic system, measuring range **up to 50 m/H₂O** (precision of **10 mm**) of water column height.

Models **3241D** and **3241E** are supplied complete with pneumatic clamping system for specimens. Available also for **3241C** (optional).



Code	increasing speed water column	pressure up to	water column height		reading sensibility	test area	
	cm/min		m	mm		cm ²	Code
3241C	2, 10, 60 [continuous 1 – 100]	100	10	10.000	1	100	included
						10	3241C.6
						26	3241C.8
						28	3241C.10
3241D	2, 10, 60 [continuous 1 – 100]	200	1	1.000	1	100	included
			20	20.000	10	10	3241D.6
						26	3241D.8
						28	3241D.10
3241E	2, 10, 60 [continuous 1 – 100]	500	50	50.000	10	100	included
						10	3241D.6
						26	3241D.8
						28	3241D.10

OPTIONAL

Pneumatic sample clamping system (for 3241C)	Code 3241.22
Adjustable LED lamp, for a better vision during visual check of water dropping	Code 3241.4
Calibration report of pressure transducer	Code 3241.CC1
Calibration report of cup diameter	Code 3241.CC2
Test area 10 cm ²	Code 3241D.6
Test area 26 cm ²	Code 3241D.8
Test area 28 cm ²	Code 3241D.10
Built-in mini printer	Code 3241D.2
Software for data management	Code 3241D.12

TECHNICAL FEATURES

- Digital display for water column pressure reading: mm/H₂O, cm/H₂O
- Water column Pressure increasing rate: 60 cm/min, 10 cm/min., 2 cm/min. (as per UNI/EN/AATCC/DIN/AFNOR/etc.) or continuously, from 1 up to 100 cm/min
- Max duration time of static test: 6.000 minutes (100 hours)
- Max sample thickness: 30 - 50 mm
- Manual air exhaust system enabling to fill with water the testing cup beneath the specimen, in order to prevent air bubbles
- Test cup water drain by ball valve
- Water reservoir capacity: 5 litres

DIMENSIONS / POWER SUPPLY

Weight: 80 kg
 Dimensions: (L) 540 x (W) 540 x (H) 1700 mm
 Power supply: 115 Vac, 60 Hz, or 230 Vac, 50/60 Hz, single-phase

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

REFERENCE STANDARDS

EN ISO 20811, BS 2823, BS 3424 part 26, ISO 1420-A, UNI 5123, UNI EN ISO 811:2018, UNI EN 13795-1, UNI 4818, ex-DIN 53886, ex-AFNOR G-07 057, BS 32823, BE EN 3321 3424, AATCC TM127:08, AATCC TM208, UNI EN 1734:1998, EN13859-1:2005, EN1928:2000, GB/T4744, FZ/T 01004, JIS L1092/K6328