

Dynamic Water-resistance Tester

HILAB model H054

Purpose – Determination of dynamic water-resistance of sole leather and water absorption and desorption of insole and insock materials, according *EN ISO 20344:7.2; EN ISO 22649; EN ISO 5404; TM220*.



Principle:

A test piece is positioned on a wet base plate and is submitted to repeat flexing under a given pressure (in the same manner as the insole of a shoe during walking).

The equipment allows determination of the penetration time, water absorption desorption, area of penetration and water penetration rate as required.

This system is basically composed of a platform with roughened surface, a roller with a sample clamping system, a mean of pressing the platform against the roller, a crack motion of the roller, a water supply system, and an electronic detection system.

With this system is possible to perform all tests according to the standards mentioned above.

All parameters and test conditions are easily set through a touch screen. This facility allows the creation of test programs, according to test standard.

Two examples of the program screens:



As shown in the picture at left hand, several options can be selected, according to test requirements. If some parameter is missing or has incorrect value, a message will be displayed at the start of the test.

Another important feature is the possibility of slow movement, especially important during the installation of the specimens.

The water supply is made through a automatic system driving by a peristaltic pump and commanded by the test program.

VERY IMPORTANT – All parts of the equipment that are in contact with sample and water are made with aluminum and stainless steel to avoid oxidation.

<u>This equipment fulfils EC safety standards.</u> A conformity certificate is issued	Certificate of conformity with test standards and a Workshop certificate are issued
<u>The origin of this equipment is PORTUGAL.</u> A certificate will be is issued at dispatch time	Operation manual is delivered with equipment

TECHNICAL DATA			
Characteristics			Notes
Roller diameter	mm	120±2	Note: The equipment must be installed on a stable and rigid bench.
Roller width	mm	≥ 50	
Platform dimensions	mm	100±1 x 40±1	
Motion amplitude	mm	100±2	
Motion frequency	Cycles/min	20±1	
Force between roller and platform	N	80±5	
Water flow	ml/min	7,5±2,5	
Voltage	VAC	230 ± 10	
Frequency	Hz	50	
Power	W	350	
Dimensions (F x H x D)	mm	550 x 650 x 350	
Net Weight	Kg	16	

Due to continuous technical development, we reserve the right to introduce changes in the product, without previous notice.

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