

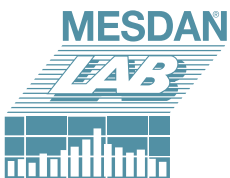
WASH-DRY COLOUR FASTNESS

AUTOWASH II



AUTOWASH II is a laboratory instrument for colour fastness assessment to laundering (washing and dry cleaning). Suitable for any kind of textile material, natural and synthetic leather.

- Instrument conceived also for atmospheric dyeing (up to +98°C)
- Two models available: Code 311L (up to 8 beakers), and Code 311M (up to 16 beakers)
- Beakers capacity: 550 cc and 1200 cc
- Guaranteed temperature ramp according to UNI EN ISO 105-C06 Standard
- Officially approved by Marks & Spencer
- Gaskets made of viton, a special acid-proof composite material
- Control panel and all electric parts well insulated and separated from the working area
- Bayonet quick-lock beaker fastening
- Entirely built in stainless steel



COMPANY WITH
MANAGEMENT SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =
= ISO 14001 =

AUTOWASH II

CODE 311L, 311M

AUTOWASH II is characterised by high quality construction and vanguard workmanship solutions, which guarantee extreme durability and reliability. The specific quick-lock fastening system of the beakers ensures a hermetic closure, preventing liquid leaks.

Model designed to contain up to **8 interchangeable beakers (code 311L)**, or up to **16 interchangeable beakers (code 311M)** - of 550 cc or 1.200 cc - depending on the specific international standard in use.

Programmable thermo-regulator for temperature control increase up to 2.0°C/min. (for standard model), or up to 3.5°C/min if equipped with the specific electrical resistance kit (available only for 8-position model)*.

Dual speed selection: 40 rpm (as requested by the standards for colour fastness), and 22 rpm (for dyeing tests). The 22 rpm speed enables easier handling of the beakers during sample loading/removal procedure, as well as the stoppage of the beakers in the desired position.

TECHNICAL FEATURES (for both models)

State-of-the-art heat insulation of water bath
Temperature regulation (max up to +98°C); accuracy: ±1°C
Equipped with timer
Heating ramp up to 3.5°C/min (only for 8-position model)*
Rotation speed: 22 or 40 rpm
Instrument entirely built of stainless steel

DETERGENTS & SOAPS (for both models)

Soap powder, FBA free for wet washing, UNI EN ISO 105 C series, 1,5 kg pack	code	310.10
Powder TAED EDTA for wet washing, 0.25 kg pack	code	310.44
ECE Reference Detergent (B) with phosphates and without optical brightener, ISO 105 C06, 2 kg pack	code	310.4
ECE Reference Detergent (A), without phosphates and without optical brightener, UNI EN ISO 105 C08, UNI EN ISO 105 C09, UNI EN ISO 6330, 2 kg pack	code	310.32
IEC Reference Detergent (A), without phosphates and with optical brightener, UNI EN ISO 6330, 2 kg pack	code	310.16
IEC Reference Detergent (B), with phosphates and with optical brightener, UNI EN ISO 10528, IEC 456:1994, 2 kg pack	code	310.40
Detergent ECE non-phosphate (A), 15 kg pack	code	310.34
Detergent IEC non-phosphate (A), 15 kg pack	code	310.38
AATCC 1993 Standard Reference Detergent WOB, without phosphates and without optical brightener, AATCC 61, 12 kg pack	code	311.6
AATCC 1993 Standard Reference Detergent, without phosphates and with optical brightener, AATCC 135, AATCC 150, 12 kg pack	code	311.8

REFERENCE STANDARDS (for both models)

UNI EN ISO 105 C06-C08-C09-C10-C12-D01-E03-E12-X05, UNI EN ISO 11643, IUF 434, AATCC 61-1A-2A-3A-4A-5A, AATCC 86, AATCC 132, AATCC 151, AATCC 190, M&S C4A-C5-C37-P3B, NEXT TM2. Officially approved by Marks & Spencer.

DIMENSIONS / POWER SUPPLY - CODE 311L

Weight: 135 kg
Dimensions: (L) 1025 x (W) 757 x (H) 1127 mm
Power supply: 3 x 400 V, 50/60 Hz, three-phase + N
Power consumption: 8 kW

DIMENSIONS / POWER SUPPLY - CODE 311M

Weight: 185 kg
Dimensions: (L) 1425 x (W) 757 x (H) 1127 mm
Power supply: 3 x 400 V, 50/60 Hz, three-phase + N
Power consumption: 16 kW

OPTIONAL

	311L	311M
550 cc stainless steel beaker, for colour fastness tests, UNI EN ISO, AATCC, IUF, ASTM, M&S, NEXT	code 311L.18	311M.18
1200 cc stainless steel beaker, for colour fastness tests, AATCC	code 311L.20	311M.20
Electrical resistance kit 12 kW 400V for heating rate up to 3,5°C/min, UNI EN ISO 105 C06 part D-E, no retrofitting	code 311L.46	-
Adjustable support base	code 311L.22	311M.24
Stainless steel balls for wet washing tests, UNI EN ISO 105 C series, set of 50 pieces	code 311.2	311.2
Stainless steel discs for dry cleaning tests, UNI EN ISO 105 D01, set of 12 pieces	code 311.4	311.4
Gasket for 550 cc beaker, set of 8 pieces	code 311L.48	311M.48
Gasket for 1200 cc beaker, set of 8 pieces	code 311L.50	311M.50
Calibration report	code 311 CC1	311 CC1
150 cc stainless steel beaker for dyeing	code 311L.26	311M.26
200 cc stainless steel beaker for dyeing	code 311L.28	311M.28
250 cc stainless steel beaker for dyeing	code 311L.30	311M.30
300 cc stainless steel beaker for dyeing	code 311L.32	311M.32
400 cc stainless steel beaker for dyeing	code 311L.34	311M.34
500 cc stainless steel beaker for dyeing	code 311L.36	311M.36

ADJACENT FABRICS (for both models)

Multi-fibres fabric DW 010, UNI EN ISO 105 F10, 10 metres roll	code	257.424
Multi-fibres fabric TV, UNI EN ISO 105, SDC, 10 metres roll	code	257.426
Multi-fibres fabric M&S, SDCE, 10 metres roll	code	257.434
Multi-fibres fabric M&S, SDCE, 50 metres roll	code	257.436
Multi-fibres fabric type 1, AATCC, 500 pcs 2"x2"	code	311L.38
Multi-fibres fabric type 10, AATCC, 500 pcs 2"x2"	code	311L.40
Multi-fibres fabric type 10A, UNI EN ISO 105 F10, 250 pcs 2"x4"	code	311L.42
Cotton Drill fabric for dry cleaning, UNI EN ISO 105 D01, 1 metre piece	code	323.4
Cotton Limbric fabric for wet washing, UNI EN ISO 105 F02, 50 pieces 10x4 cm	code	323.6
Wool Gimped fabric, UNI EN ISO 105 F01, 50 pieces 10x4 cm	code	323.8
Rayon Viscose fabric, UNI EN ISO 105 F02, 1 metre piece	code	323.10
Polyamide 6.6 fabric, UNI EN ISO 105 F03, 1 metre piece	code	323.12
Polyester fabric, UNI EN ISO 105 F04, 1 metre piece	code	323.14
Acrylic fabric, UNI EN ISO 105 F05, 1 metre piece	code	323.16
Silk fabric, UNI EN ISO 105 F06, 1 metre piece	code	323.178

ASSESSMENT SCALES (for both models)

Grey Scale UNI EN ISO 105 A02 for evaluation of change in colour	code	267C
Grey Scale UNI EN ISO 105 A03 for colour staining assessment	code	267A
Grey Scale AATCC for evaluation of change in colour	code	267D
Grey Scale AATCC for colour staining assessment	code	267E
Grey Scale GB/T 250 (EN ISO 105 A02) for evaluation of change in colour	code	267F
Grey Scale GB/T 251 (EN ISO 105 A03) for colour staining assessment	code	267G

Photographs and descriptions of the present leaflet have to be considered as purely indicative and not binding
Ref. En 2018-01