TXL-BOY-018 / 28 October 2026 · One-year manufacturer warranty

AATCC Shrinkage Washing Machine (Top-Loading)

Top-loading agitator laboratory washing machine for dimensional change (shrinkage) and appearance testing to AATCC methods. AATCC LP1 Table I, IIC, IID, IIIA, IIIB and IIIC programs are preloaded; multi-cycle washing runs automatically. The ISO 6330 application is limited to the top-loading machine conditions in Table C.1 identified in the manufacturer documentation.



Model technical data

1	Type: top-loading agitator laboratory washing machine.
2	Programs: Normal, Delicate and Permanent Press for AATCC LP1 Tables I and IIC; Normal and Delicate for IID, IIIA, IIIB and IIIC. Also drain-and-spin, rinse-and-spin and PC-edited custom programs.
3	Table I Normal: water level 19 ± 1 gal, agitation 86 ± 2 spm, washing 16 ± 1 min, final spin 660 ± 15 rpm, 5 ± 1 min.
4	Inlet water temperature control: 25–60 °C (washing), tap water (rinsing); operates with an external hot water supply, no heater in the machine.
5	Load capacity: 10.5 kg.
6	Automatic control of multi-cycle washing; unattended multi-cycle operation with automatic detergent feeder (option).
7	IoT interface for remote monitoring and control of the machine status.
8	Power supply: 220 V / 50 Hz or 110 V / 60 Hz; water pressure > 0.15 MPa.
9	Packed dimensions: 820 × 810 × 1330 mm; packed weight 133 kg.

Physical specifications and utilities

Electrical supply	Power supply: 220 V / 50 Hz or 110 V / 60 Hz; water pressure > 0.15 MPa.
Power / connected load	Approx. 500–1000 W connected load for preliminary planning.
Overall instrument dimensions	Approx. 700 × 700 × 1100 mm (W × D × H).
Instrument weight	Approx. 80–110 kg net.
Packaging / shipping	Packed dimensions: 820 × 810 × 1330 mm; packed weight 133 kg.
Water requirements	Power supply: 220 V / 50 Hz or 110 V / 60 Hz; water pressure > 0.15 MPa.
Lab requirements	Water supply and drain; hot water, water quality and plumbing capacity depend on order configuration.

Dimension order and approximate values are stated in each row. Packaging data are separate from instrument dimensions and net mass. Approx. rows are preliminary engineering estimates based on comparable equipment and function/capacity; they are not verified manufacturing measurements or standard requirements. Installation and shipment are finalised against the approved drawing and nameplate. Estimate scope: base product / one unit; external computer, bench and auxiliary plant excluded.

Specifications, dimensions, and power requirements are approximate and subject to change without prior notice for continuous design improvements.

Product technical specifications and images may vary according to manufacturing conditions and applicable standards.

Test and configuration

Measured output / function	Dimensional change after controlled washing (%)
Parameters selected for the method	Machine type, programme, load, ballast and detergent
Verification points	Water volume, temperature, drum action and timing

Control and recording specification

Method-specific software and recording requirements follow. Delivered software modules are defined by the order scope.

• Method code and edition, specimen ID, operator and selected test parameters are linked to the record.

• Dimensional change (%) = 100 × (final - initial dimension) / initial dimension; direction and sign convention are stated in the report.

• Raw measurements, units, valid/invalid test flags and the reported result remain traceable.

• Calculations are checked against known inputs and an independent calculation; sensor channels are checked against calibration values.

Related test methods

AATCC 88B · AATCC 88C · AATCC 124 · AATCC 130 · AATCC 135 · AATCC 150 · AATCC 179 · AATCC 207 · AATCC LP1 · ISO 6330

Listed methods are application references. Suitability is established by assessing hardware, method edition and calibration together.

Test parameters for the reviewed method

The values below were reviewed in selected clauses of the stated source edition. They are not a declaration of equivalence to a later edition or independent instrument verification.

AATCC 124-2009 / 7.1, 8.2.4, 9.1

1	Smoothness-appearance assessment uses three 380 × 380 mm specimens; the stated washing option uses total load 1.8 ± 0.06 kg. Three trained observers rate specimens independently; washer/dryer does not replace the visual assessment system.

AATCC 135-2004 / 5.8, 6.2, 9

1	Dimensional change includes the option of three 250 mm length and width benchmark pairs on a 380 × 380 mm specimen. Measurement step 0.5% or smaller; change is 100 × (final - initial)/initial, with shrinkage negative. Match machine type/program separately to the edition.

AATCC 150-2003 / 5.8.2, 6.2, 9.1

1	For garment dimensional change define measurement locations by garment type; marked-scale increment 0.5% or smaller. Measure initial and final dimensions at the same locations; retain negative change as shrinkage and positive change as growth.

AATCC 179-2004 / 8.2, 9.1.1

1	For skewness assessment record marking option and wash/dry cycle. Diagonal-method change (%) = 100 × 2(AC - BD)/(AC + BD); report to 0.1%. Do not mix equations from different marking options.

AATCC 88B-2006 / 7.1, 9

1	Prepare three 380 × 380 mm seamed specimens for seam-smoothness assessment. Record wash/dry conditions, seam reference, observer and grade in separate fields; drying alone is not the full assessment.

AATCC 88C-2006 / 7.1, 9

1	Prepare three 380 × 380 mm specimens for crease-retention assessment. Link crease reference and observer rating to the selected wash/dry recipe; appearance rating is not presented as an automatic instrument measurement.

AATCC 130-2000 / 5.5, 7, 8.3

1	Oil staining is a separate preparation: a 64 mm diameter weight of 2.268 ±0.045 kg; wash 20 ±5 minutes after staining. This edition uses a total specimen/ballast load of 1.80 ±0.07 kg. Record load and delay.

ISO 6330:2012 / TS EN ISO 6330:2012 / 5.1–5.2, 5.6, 6.1.1

1	Distinguish washer A horizontal/front-loading, B vertical/agitator and C vertical/pulsator. Match dryer type, ballast and detergent; this edition restricts reference detergent 1 to type B. Record machine type and program edition before assuming method equivalence.

AATCC LP1-2018e, reproduced in 2021 manual — not LP1-2021 / 7.1, 9.2, Table I, Table VI; selected standard top-loader/dryer settings

1	LP1-2018e: standard top-loader normal cycle 72 ± 4 L, 86 ± 2 strokes/min, 16 ± 1 min; final spin 660 ± 15 rpm. Total dry load 1.8 ± 0.1 kg. Normal dryer exhaust 68 ± 6 °C. This is the older method printed in the 2021 manual, not revision LP1-2021.

AATCC TM207-2019 / 7.1–7.5, 8.1, 9, 10.3–10.5

1	Selected TM207-2019 clauses: conditioning facilities, indelible marker, millimetre rule/tape, flat horizontal measuring surface and selected washing/drying facilities. Three garments per lot when available; record seam length and twist distance to nearest mm.