

TXL-BOY-002 / 27 October 2026 · One-year manufacturer warranty

Infrared Sample Dyeing Machine

Infrared high-pressure HT dyeing. 12-beaker capacity.



Model technical data

1	Capacity: 12 beakers.
2	Operating temperature range: 30 °C – 135 °C (maximum 140 °C).
3	Heating rate: adjustable between 0.5 °C and 4 °C/min.
4	Heating power: 1950 W.
5	Rotation speed: 15 – 40 rpm.
6	Heating system: IR porcelain-coated heaters for homogeneous heat distribution.
7	Operates completely dry; the displayed temperature is the liquor temperature itself.
8	Body: full stainless steel with double-wall insulation; double-glazed insulated lid.
9	Cooling: closed-circuit water-circulated air cooling system.

Physical specifications and utilities

Electrical supply	Approx. 220–240 V AC, 50/60 Hz, single phase; build-dependent.
Power / connected load	Heating power: 1950 W.
Overall instrument dimensions	Approx. 800 × 750 × 950 mm (W × D × H).
Instrument weight	Approx. 75–120 kg net.
Gross / shipping weight	Approx. 107.5–175 kg gross; estimated packing allowance.
Lab requirements	Heat-resistant bench and ventilation; clearance for hot surfaces.

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	Laboratory dyeing and recipe comparison
Parameters selected for the method	Sample load, liquor ratio and temperature-time profile
Verification points	Temperature sensor and programme durations

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.
- The calculation and endpoint are defined by the selected method edition; instrument signals and operator assessments are kept distinct.
- 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

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