



TERG-O-TOMETER

AN ISO 9001 : 2015 / 14001 : 2015 / WHO-GMP CERTIFIED CO. & CE MARK PRODUCT

Model No : SRL / TOM-52



Working :

It gives scaled reproduction of larger washer, this is a 6 place washing machine simulating the action of the agitator type washer.

Determination :

Detergent value of soap, synthetic detergents & other washing compounds. Washability of fabrics. Color fastness of textile materials. optimum temp. & rotary action cycle for liquid phase until process.

Temp. Range :

+5°C above ambient to +100°C

Power Supply :

220 to 240 Volts A/C single phase, 50 Hz

Application :

Specially used for Laboratory evaluation of soaps, detergents, dyestuffs, surfactant, cleaners for textile & other materials.

Electrical Connections :

A worm reduction Universal Mounting Gear Motor (Make BONFIGLOLI") frequency drive - Single phase 1/2 H.P. 3 phase & vectron type stainless steel heaters.

Ecocentric System :

Chamber runs on the basis of Dewpoint control. Less deviations during short-term door opening & power failure. Less utility area Increased storage area. Low operating cost. Minimum power & water consumption. Reduced deviations. Less breakdowns due to standby refrigeration & humidification system. Due to PLC HMI & controlling through microprocessor based PID Temp. & RH operations the on time of both Temp. & RH system is reduced & efficiency of this system is increased with reduced energy consumption.

Fabrication :

Angular structure with CRCA / M.S duly non-contaminant epoxy powder coated. It has a water bath with 6 nos of stainless steel 316 L pots of 2 Ltrs capacity, shafts & impellers for agitating clockwise 180 degree, Anticlockwise 180 degree.

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Refrigeration system : (Optional)

Emerson /Danfoss/Tecumseh: make compressors, 1 stage cooling system for TEMP. & Humidity Control. All accessories such as HPCO/LPCO, Oil Separators, Dryers, Relays, OLP etc. of **Danfoss/Tecumseh** Emerson Make. CFC free refrigerant to be used to comply with the New Environmental Regulation. Will have suitable tonnage compressor for maintain temperature with lights on. Will have hermetically sealed condensing unit compressor coupled with Evaporation coil and condenser, safe guarded by time delay circuit. Cabinet shall be supplied with air-cooled condensing unit with extended compressor life and close temperature control. Cooling system will be split type to place condenser unit in a ventilated area to avoid hot air in growth chamber. Cooled air shall be delivered in such a way to reduce or eliminate condensation within media dishes and to provide maximum uniformity In different research vessels. This may be through silent and durable fan motors or through any kind of advanced air diffusers. Air Cooled Condenser with solenoid & LP to pass hot gas to the chamber for uniformity & long life of compressor for continuous usage. Phenolic coating for cooling & condensing coils (All weather proof).

Controls : [PLC with HMI TFT Screen]

PLC with HMI (programmable Logic Controls) with wide touch screen & function to maintain temp. in bath display time t set wash & rinse cycle. Electronic digital RPM display & variable speed regulator (programmable all in one) speed, temp., cycle time & test dates, output by parallel port USB or RS485/232.

PLC with HMI Control system with touch screen display & HMI for data Storage, data logger reading & audit trail, Door access & SMS records, Email alert. Data Logger 1 temp + 1 RH. Data Logger with LCD display window capable to store non volatile data memory up to 5000 readings with audit trail facility complies.

Optional Accessories :

Refrigeration system for below ambient condition. GMP Models complete stainless steel unit.

Special Care :

Suitable K.V.A. Servo Controlled Voltage Stabilizer is recommended in case of voltage fluctuations.

Certification :

ISO 9001:2015 Certified Co. D&B registered & CE mark product.

ISO 14001:2015 & WHO-GMP

NSIC & MSME registered

Calibration & validation certificates traceable to NABL / ERTL accredited labs.

Documentation :

To comply with the documentation requirements, we provide IQ, OQ & PQ protocols to be executed before taking the chamber in to for regular use, and support the supply with the following documents with the detail operational and service manual.

Standard Operating Procedure (SOP)

Operational Manual for Controller

IQ,PQ,OQ protocols certificate.

Calibration certificate of all controlling modules with traceability.

Certificate of MOC.

Test Report of chamber prior to supply with mapping certificate. wiring diagram for ease of service maintenance.

COMPARISON CHART

MODEL NO : SRL/TOM 52	CONSTRUCTION		Temp. Range	Refrigeration
	Inner Chamber	Outer Chamber		
TOM 52-A	Water bath, Impeller, shaft & all contracts parts made of Stainless steel 316L grade	Made of CRCA sheets duly epoxy powder coated.	+5°C above ambient to +100°C	Without Refrigeration System
TOM 52-A/I	Water bath, Impeller, shaft & all contracts parts made of Stainless steel 316L grade	Made of Stainless steel 304 grade	+5°C above ambient to +100°C	Without Refrigeration System
TOM 52-B	Water bath, Impeller, shaft & all contracts parts made of Stainless steel 316L grade	Made of CRCA sheets duly epoxy powder coated.	+5°C to +100°C	With Refrigeration System
TOM 52-B/I	Water bath, Impeller, shaft & all contracts parts made of Stainless steel 316L grade	Made of Stainless steel 304 grade	+5°C to +100°C	With Refrigeration System

Due to continuous development & improvements in design, we reserve the right to change the specification without notice.