DYEING, FINISHING, PRINTING AND COATING

D394 Laboratory Wringer/Padder

To evenly squeeze or extract excess liquid from fabrics. 12" (300mm) working width with neoprene rollers 2⅛" (54mm) diameter. Drive speed 25mm (1") per second. Dead weight loading up to 105lb (50kg) x 5lb (2.3kg). Detachable liquor trough (optional).

WEIGHT	35 kg	77 lb	
DIMENSIONS	Width	Depth	Height
	640 mm	250 mm	300 mm
	25 inch	10 inch	12 inch
ORDERING Info.	D394	Laboratory Wringer/Padder	
	400920	Optional Liquor Trough	

D394A Pneumatic Heavy Duty Padder Vertical (Model P-A0)

Heavy duty padder with stand, for all dyeing, impregnating and padding processes. Floor model

- Roller width 450mm diameter l25mm
- Pneumatic load adjustment with 3-ton nip pressure at 5 kg/cm2
- Padding roller pressure adjustable independently on left/right side
- Fix revolving speed of l0RPM(vari-speed conally system is optional)
- Padding rollers of 70¢Jshore hardness (optionally designed for special degree of hardness)
- Content of liquor trough approx. l000cc
- Safety devices include a safety rod prevents incorrect handling, emergency button and a knee pedal to stop the machine operation.
- Suitable for discontinuous operation in conjunction with our MINI-DRYER or MINI-TENTER .
- Air compressor can be supplied on request.

WEIGHT	340 kg	748 lb	
DIMENSIONS	Width	Depth	Height
	980 mm	560 mm	1500 mm
	39 inch	22 inch	60 inch
ORDERING Info.	105218	Pneumatic Heavy Duty Padder Vertical	
	G265	Silent Laboratory Compressor (Optional)	
		Larger capacities available on request	

D394B Pneumatic Heavy Duty Padder Hoziational (Model P-B0)

Dyeing, Finishing and Impregnating Padder, similar to vertical padding mangle. Floor model.

- Roller width 450mm diameter l25mm
- Pneumatic load adjustment
- Fabric speed l0 RPM (on request can be supplied with-vari revolving speed system)
- Content of liquor trough approx l000cc
- Padding rollers of 70 shore hardness
- Safty device
- Air compressor can be supplied on request
- Suiltable for discontinuous operation in conjunction with our MINI-DRYER or MINI-TENTER.

WEIGHT	370 kg	814 lb	
DIMENSIONS	Width	Depth	Height
	1000 mm	600 mm	1160 mm
	40 inch	24 inch	45.5 inch
ORDERING Info.	107139	Pneumatic Heavy Duty Padder Horizontal	
	G265	Silent Laboratory Compressor (Optional)	
		Larger capacities available on request	

D395 Pad-Steam Range(Model PS-JS)

Suitable for carring out all PAD-STEAM processes with saturated steam, offers the shortest distance between padder and steaming chamber.
Roller width 300mm diameter 125mm
The range comprises:

- Horizontal type with two padding rollers. pneumatic pressure application.
- Steaming chamber with fabric holding capacity of 6M, with double glazed inspection window.
- Adjustable fabric speed control, standard dwell time inside the steaming chamber from 20-120sec with digital indication type.
- Chemicals trough provided about 500cc capacity with automatic drop-off and spray washing.
- Water sealed bath with temperature regulator for automatic cooling control.
- Temperature range between 98-104 with digital and analog indication type.
- On request can be combined with 2-8 section roller washing machine.
- Easily accessible control and display panel.

STEAM REQUIREMENTS	Suitable steam supply required		
WEIGHT	320 kg	704 lb	
DIMENSIONS	Width	Depth	Height
	600 mm	1300 mm	1400 mm
	24 inch	52 inch	56 inch
ORDERING Info.	105219	Pad-Steam Range	
	G265	Silent Laboratory Compressor (Optional)	
		Larger capacities available on request	

D396 Pad-Thermosol Range(Model PT-J)

- Thermosol range with infrared zone suitable for working out dye formulas and for research work.
- Pad→Infrared ray heater→Intermediate dryer Thermosol. On this type of machine the test tabric padded by the horizontal pneumatictype padder is held on its both ends by special clip bars; this complete sample holder is mounted on the chains which are running endlessly through the machine. The test fabric is first led through the infrared pre-heater, then the intermediate dryer and finally the thermosoling zone. After testing, the test fabric is taken off automatically from the carrying chains and drops down into the reserve box.
- Roller width 300mm, diameter 125mm.
- Dyestuff trough provided about capacity 100cc ×w

WEIGHT	1600 kg	3520 lb	
DIMENSIONS	Width	Depth	Height
	1200 mm	3500 mm	2900 mm
	48 inch	140 inch	114 inch
ORDERING Info.	300002	Pad-Thermosol Range	
	G265	Silent Laboratory Compressor (Optional)	
		Larger capacities available on request	

D397A1 Laboratory Centrifuge

Removes excess water from dyed or washed samples before hot air or line drying. 2000g/4.4lbs. Capacity at 2850RPM. Stainless steel heavy duty construction.

- Removes 90% of moisture in 10 - 20 seconds
- Table or wall mounting for space saving
- Ideal for rapid color measurement
- Low cost, high quality product
- Hot/cold air dryer also available

WEIGHT	15 kg	33 lb	
DIMENSIONS	Width	Depth	Height
	380 mm	380 mm	600 mm
	15 inch	15 inch	24 inch
ORDERING Info.	300003	Laboratory Centrifuge	

D397B Laboratory Hot Air Dryer

To air-dry samples after centrifuging. Capacity 0.5kg (1.1lb) 1.5kw/3kw dual power hot air/cold air with adjustable ventilation. Stainless steel interior construction.

WEIGHT	15 kg	33 lb	
DIMENSIONS	Width	Depth	Height
	500 mm	270 mm	670 mm
	20 inch	11 inch	27 inch
ORDERING Info.	300005	Laboratory Hot Air Dryer	

D398 Minidryer/Stenter(Model R-3)

Suitable for all drying, setting, baking and thermosoling processes. Table model.

- Sample size up to max. 36×} 42cm
- Automatic pin frame transport with preselectable dwell times from lOsec.to 6min.
- Electric heating 6KW; temperature range 20 -250°} C with air circulating fan
- Specially designed pin frame to holds all types of sample fabrics in length and/or width.
- Suitable for discontinuous operation with padding mangle, type AIR PAD.

WEIGHT	250 kg	550 lb	
DIMENSIONS	Width	Depth	Height
	650 mm	1046 mm	950 mm
	26 inch	42 inch	38 inch
ORDERING Info.	D398	Minidryer/Stenter	

D398A Minidryer/Stenter and Steamer(Model H-TS-3)

Saturated and HT-Steamer, suitable for the chemical and dyestuff industry, finishing plants, research institutes and general textile industry. Basic design as MINI-DRYER, model R-3, owing the wide adjusting ranges regarding temperature, humidity, dwelling time, this apparatus can be used for

- Drying, curing and thermofixation 2O°-250°
- Steaming with saturated steam lO2°C±2°
- HT steaming at temperatures between lO0°- 250°C
- Test fabric size max.350×400mm
- Automatic pin frame transport with preselectable dwell time from lOsec to 6Omin.
- The ceiling is slanted and an additional heating is fixed at the entrance slit in order to avoid a formation of drop water.
- Moisture controller with regulation l0-100% steam generator can be supplied on request.
- Suitable for discontinuous operation in conjunction with lab padder, type AIR PAD.

STEAM REQUIREMENTS	Suitable steam supply required		
WEIGHT	380 kg	840 lb	
DIMENSIONS	Width	Depth	Height
	660 mm	1620 mm	955 mm
	26 inch	64 inch	38 inch
ORDERING Info.	D398A	Minidryer/Stenter and Steamer	

D400IR SDL "ECO" Infrared Lab Dyeing System

The SDL ECO Infrared Lab Dyeing System is a state-of-the art dyeing unit. Unit produces accurate laboratory sample dyeings with level and reproducible results and accommodates up to 20 positions with a low liquor ratio for synthetic and natural fibers.

The SDL ECO moves the beakers in a circular rotation with advanced infrared heating technology eliminating glycol contamination and cumbersome beaker cleaning. Specially pressure-tested beakers offer maximum safety for atmospheric and high-temperature dyeing. The easy to operate multi-step controller makes operator error virtually impossible. Dyebath temperature is measured directly by a PT-100 probe inside the beaker. Important process information is easily viewed during the dyeing process.

The SDL ECO is suitable for all types of substrates. It is ergonomically designed for fast, convenient use. State-of-the-art technology contributes to accurate temperature control and low energy consumption.

SDL ECO Infrared Lab Dyeing System.

State of the art technology at an affordable price.
Glycol free infrared heating system.
Accurate temperature control
Increased productivity of laboratory samples.
High temperature, safety tested pressure dyeing beakers.
Easy to operate multi step controller.

Suitable for all fibers and substrates

Applications

Fibers:	All
Substrates:	Piece, Skein Loose stock, Tops
Minimum Liquor Ration:	1:5 natural fibers 1:3 synthetic fibers

Heating/Cooling

Heating System:	Infrared
Max. Heating Power	2kW
Temperature Range:	20°C-140°C
Cooling:	Forced Air

Dyeing Capacities

Beaker Sizes and Maximum number of Dyeing Positions:	150 cc x 20 300 cc x 15 500 cc x 8 1 Liter x 8 5 liter drum x 1
Ideal Sample Size:	5 grams for 150 cc beaker 10 grams for 300 cc beaker 20 grams for 500 cc beaker 40 grams for 1000 cc beaker 250 grams for 5 liter drum
Dosing:	M anual dosing injector

Controller

Copntroller Type:	Nuance
Program Capacity:	1 dyeing program 1 testing program
Programmable Steps:	15 steps
Display:	25 x 70mm

Controller Parameters

Time:	In minutes
Temperature:	0.1°C or °F
Temp. Gradient:	0.1°C/min.
Rotation Speed:	5 to 50 rpm
Program Stop:	Automatic

Electrical

Voltage:	230 V
Frequency:	50/60 Hz
Insulation:	Fiberglass

WEIGHT	69 kg	152 lb	
DIMENSIONS	Width	Depth	Height
	570 mm	680 mm	670 mm
	22.4 inch	26.8 inch	26.4 inch

ORDERING Info.	300020	SDL ECO Infrared Lab Dyeing System with 150cc Beakers
	300023	with 300 cc Beakers
	300027	with 500 cc Beakers
	300030	with 1000 cc Beakers
	202727	with 5 liter drum

D400/LT Atlas Linitest+ Lab Dyeing System

A modern benchtop laboratory instrument which due to its flexible programmability is used in the textile industry as a dyeing apparatus for textile materials under High Temperature conditions.

The container carrier (rotor) is driven by a gear motor which transmits the rotary movement jointlessly via a central maintenance-free magnetic coupling.

The microprocessor control allows to infinitely adjust the revolution speed between 20 and 40 rpm as well as to preprogram a requested reversing function. By rotating the container carrier the dyeing liquor and the textile material are moved uniformly during an exhaustion dyeing process.

The Linitest+ is operated with the aid of a microprocessor control supported by an interactive user guidance via a clear two-line text display: it controls and monitors the process of the preset program. Up to 50 programs with up to 30 phases of 999 minutes each can be preset through the keyboard.

Specimen containers with capacities of 300 or 100 ml are employed for high-temperature dyeing processes; they are mounted to a carrier which can hold up to 12 of these containers.

WEIGHT	47 kg	104 lb	
DIMENSIONS	Width	Depth	Height
	700 mm	540 mm	500 mm
	28 inch	22 inch	20 inch

ORDERING INFORMATION	D400/LT	Atlas Linitest+ Lab Dyeing System
	D400/LT	Linitest+ Lab dyeing system
	201081	Linitest+ Dyeing carrier, 12 positions
	201080	Linitest+ Set of 12 x 100ml Containers
	202558	Linitest+ Set of 12 x 300ml Containers

Heating power:	max. 9kW
Revolution speed of container carrier:	infinitely variable between 20 and 40 rpm
Working temperature range:	20-135° C
Control accuracy:	±0.5° C

D409A Color and Shade Difference Meter

An affordable sphere spectrophotometer, designed to give fast, precise and accurate color measurement information on textile materials.

Provides absolute and difference measurements for the following colormetric systems: L*a*b*, ÆL*Æa*Æb*, L*C*h°, ÆL*ÆC*ÆH*, ÆE*ab , ÆECMC, ÆE CIE94 and XYZ. These values can be obtained from any of nine illuminants with 2° or 10° observer angle. Whiteness and yellowness per ASTM E313-98.

Stores up to 1,024 standards with tolerances for easy pass/fail measurement. A red/green LED indicator and the LCD display provide visual confirmation. A tone sounds to indicate a fail result.

Can measure opacity and three color-strength options: chromatic, apparent and tri-stimulus calculations. Also performs 555 shade sorting. Allows simultaneous measurement of both specular-included (color) and specular-excluded (appearance).

On-board programs to assist the operator in the measurement process. Compact and lightweight. Wrist strap and tactile side grips make it easy to hold. Large and easily visible readouts. Includes rechargeable battery pack.

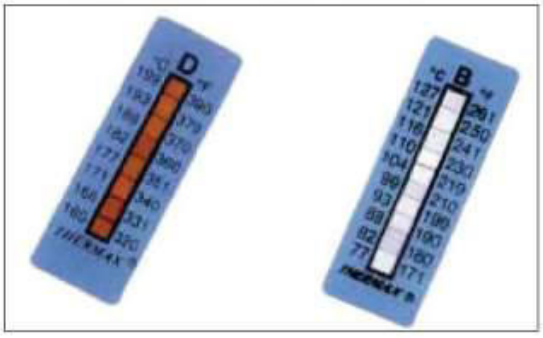
WEIGHT	1.1 kg	2.4 lb	
DIMENSIONS	Width	Depth	Height
	175 mm	75 mm	75 mm
	7 inch	3 inch	3 inch

STANDARDS ASTM E313-98

ORDERING Info.	201977	Color and Shade Difference Meter

D440 Temperature Indicating Strips

Change color to indicate maximum temperature achieved in textile processing. Self adhesive and unaffected by oil, water or steam. Ranges available from 40°C (105°F) to 26°C (500°F).



DIMENSIONS	Width	Height
	15 mm	45 mm
	0.6 inch	1.75 inch
ORDERING Info.	202985	40-71°C/105-160°F Temperature Indicating Strips (Pack of 100)
	202986	77-127°C/171-261°F Temperature Indicating Strips (Pack of 100)
	202473	116-154°C/241-309°F Temperature Indicating Strips (Pack of 100)
	202340	160-199°C/320-390°F Temperature Indicating Strips (Pack of 100)
	202341	204-260°C/399-500°F Temperature Indicating Strips (Pack of 100)

D443 Digital Rotational Viscometer

Complete with stand and spindle set - direct display of viscosity in centipoise or millipascal/seconds, percent torque, spindle number and speed (18 speeds 0.3 - 100RPM). Complete with set of spindles for low or medium viscosity. Complete with hard carrying case. Measures viscosities of dye solutions, pastes, sizingcompounds, lubricants or adhesives.

WEIGHT	8 kg	18 lb	
DIMENSIONS	Width	Depth	Height
	350 mm	200 mm	800 mm
	14 inch	8 inch	32 inch
ORDERING Info.	203874	Digital Rotational Viscometer