

**datacolor**  
**AUTOLAB<sup>™</sup>**<sub>TF</sub>

## Datacolor AutoLab TF Tube-Free Laboratory Dispensers

### Key Features & Benefits • Technical Specifications

- Tube-free design—no sedimentation; no cleaning required
- Gravimetric dispensing: all products weighed, giving full traceability
- Low maintenance—no dispense tubes, dispense valves or valve wires to maintain
- No refresh of tubes into drain required; no dye solution wastage
- Individual injector for each bottle—no possible cross-contamination
- Simple special design injector—easy to maintain, no staining
- Automatic refresh of injectors prior to each dispense—ensures that they are kept totally clean
- No need to calibrate injectors for dye solutions
- Drip tray under injector ensures no possibility of dropping liquid when moving injector
- State-of-the-art robotic X-Y-Z mechanism: fast, reliable and precise operation
- Enclosed bottles ensure no evaporation of solutions and no alteration of solution strengths over time
- Capable of dispensing into a wide range of dyepot types and sizes
- 6-position dyepot trays used for loading and dispensing; Easy to prepare dyepots prior to dispensing, and easier and quicker to load dyepots into dye machines after dispensing
- Auto loading of dyepot trays—minimal operator intervention required, high level of automation
- Use of conveyor allows system to dispense up to 60 recipes at one time (54 on TF-168, 42 on TF-128 and 30 on TF-88)
- Programmable agitation speed, direction and on/off interval time ensures correct agitation for solutions being used
- Agitation during dispense to ensure continual stability of solutions
- Simultaneous volumetric dispensing of water and chemicals increases throughput of dispense
- Dispensing of water and chemicals into more than one dyepot simultaneously
- System totally enclosed—protects system from wind, dust, and other elements
- Can dispense a wide range of viscosities—suitable for wide range of applications, exhaust and continuous dyeing, textile printing, floorcovering, etc.

## Technical Specifications – Datacolor AutoLab TF dispensers

Product Name	AutoLab TF-40	AutoLab TF-80	AutoLab TF-88	AutoLab TF-120	AutoLab TF-128	AutoLab TF-160	AutoLab TF-168
Number of dispense bottles	40	80	88	120	128	160	168
Number of dyestuff bottles	40	80	80	120	120	160	160
Number of auxiliary bottles (including water)	1 (water)	1 (water)	7 + water	1 (water)	7 + water	1 (water)	7 + water
Number of water valves	3	6	2	6	2	6	2
Size of solution bottles	1L	1L	1 L	1L	1L	1L	1L
Size of auxiliary refill bottle	-	-	4 L	-	4 L	-	4 L
Capacity of injector	60ml	60ml	60 ml	60ml	60ml	60ml	60ml
Number of dedicated injectors	40	80	80	120	120	160	160
Number of agitation positions (programmable)	40	80	87	120	127	160	167
Number of scales	1	2	1	2	1	2	1
No. of dye pot trays supplied (for dispensing recipes)	2	4	5	4	7	4	9
No. of solution bottle trays supplied (for making dilutions)	1	2	3	2	3	2	3
No. of dye pot trays can use at one time	1	2	5	2	7	2	9
Maximum number of dyepots in each tray	6	6	6	6	6	6	6
Maximum No. of recipes in one batch	6	12	30	12	42	12	54
Number of In feed conveyors	-	-	1	-	1	-	1
Number of auxiliary dispense conveyor	-	-	1	-	1	-	1
Number of out feed conveyors	-	-	1	-	1	-	1
Number of in and out feed mechanisms	1	2	-	2	-	2	-
Maximum height of dye pot (mm)	250	250	250	250	250	250	250
Minimum height of dye pot (mm)	80	80	80	80	80	80	80
Min. diameter of dye pot (mm)	24	24	24	24	24	24	24
Readability of dispense scale	± 0.01 g	± 0.01 g	± 0.01 g	± 0.01 g	± 0.01 g	± 0.01 g	± 0.01 g
Accuracy of gravimetric dispense	± 0.02 g	± 0.02 g	± 0.02 g	± 0.02 g	± 0.02 g	± 0.02 g	± 0.02 g
Accuracy of water (gravimetric)	± 0.1 g	± 0.1 g	± 0.1 g	± 0.1 g	± 0.1 g	± 0.1 g	± 0.1 g
Accuracy of volumetric dispense	± 3 %	± 3 %	± 3 %	± 3 %	± 3 %	± 3 %	± 3 %
Dispense range (kg)	0-4.0	0-4.0	0-4.0	0-4.0	0-4.0	0-4.0	0-4.0
Dispense speed (6 recipes : 3 dyes, 180 cc tot)	6 min	6 min	6 min	6 min	6 min	6 min	6 min
Flow rate of dispense water (g/sec)	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Flow rate of dispense auxiliary (g/sec)	-	-	2.5	-	2.5	-	2.5
Readability of Fabric Weigh scale (g)	± 0.01 g	± 0.01 g	± 0.01 g	± 0.01 g	± 0.01 g	± 0.01 g	± 0.01 g
Dimensions Width (mm) unpacked	1824	2350	2397	2876	2923	3402	3449
Dimensions Depth (mm) unpacked	1423	1423	1725	1423	1725	1423	1725
Dimensions Height (mm) unpacked	2007	2007	2007	2007	2007	2007	2007
Weight (kg) unpacked	600	1050	1090	1210	1250	1330	1450
Dimensions Width (mm) packed	2390	3170	3170	3670	3670	4230	4230
Dimensions Depth (mm) packed	2000	2000	2150	2150	2150	2150	2150
Dimensions Height (mm) packed	2260	2260	2260	2260	2260	2260	2260
Weight (kg) packed	900	1470	1510	1670	1710	1840	1960
Power Voltage	220~240 V	220~240 V	220~240 V	220~240 V	220~240 V	220~240 V	220~240 V
Power Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Power Wattage	1.4 kW	1.4 kW	1.4kW	1.6 kW	2.0 kW	2.2 kW	2.2 kW

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