

datacolor 
AUTOLAB™_{TF}

Datacolor AutoLab TF-P Tube-Free Lab Dispensers with paste/thickener dispense

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 color wastage
- Individual injector for each color—no possible cross-contamination
- Special simple design injector—easy to maintain
- Automatic refresh of injectors prior to each dispense—ensures that they are kept totally clean, and well mixed color is always used
- No need to calibrate injectors
- Can dispense solutions, concentrated colorants and liquid pigments, up to viscosity of 4000 cps (measured by Brookfield Dial Reading Viscometer, HB3 type spindle, speed 10, Measure container diameter 85mm, Paste temperature 25°C)—suitable for wide range of applications; exhaust and continuous dyeing, textile printing, floor covering, pigment industries, etc.
- One 20L paste pressure tank and dispense valve supplied as standard, expandable up to three in total
- Optional 50L paste pressure tank is available
- Optional mechanic propeller agitation module is available for 20L/50L paste tank.
- State-of-the-art robotic X-Y-Z mechanism: fast, reliable and precise operation
- Maximum dispense viscosity 60,000 cps for paste measured by Brookfield Dial Reading Viscometer, HB3 type spindle, speed 10, Measure container diameter 85mm, Paste temperature 25°C.
- Removable paste pressure tank.
- Includes paste pipe cleaning
- Enclosed bottles ensure no evaporation and no alteration of color strengths over time
- Capable of dispensing into a wide range of container/beaker types and sizes
- 6-position beaker trays used for loading and dispensing
- Easy to prepare beakers prior to dispensing, easier and quicker to unload after dispensing
- Auto loading of beaker trays—minimal operator intervention required, high level of automation
- Use of conveyor allows system to dispense up to 54 recipes at one time (9 beaker trays on TF-168P, 7 on TF-128P and 5 on TF-88P)
- Agitation during dispense to ensure continual stability of colors
- Simultaneous volumetric dispensing of water and chemicals increases throughput of dispense
- System totally enclosed—protects system from wind, dust, and other elements

Datacolor AutoLab TF-P dispensers with paste dispense

Technical Specifications

Product Name	AutoLab TF-40P	AutoLab TF-80P	AutoLab TF-88P	AutoLab TF-120P	AutoLab TF-128P	AutoLab TF-160P	AutoLab TF-168P
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 (incl. water)	1 (water)	1 (water)	7 + water	1 (water)	7 + water	1 (water)	7 + water
Number of auxiliary bottles with auto-refill	0	0	7	0	7	0	7
Number of water valves	1	1	1	1	1	1	1
No. of paste pressure tank	1	1	1	1	1	1	1
No. of paste dispensing valve	1	1	1	1	1	1	1
Maximum No. of paste pressure tank	3	3	3	3	3	3	3
Maximum No. of paste dispensing valve	3	3	3	3	3	3	3
Capacity of external past tank (L)	20/50	20/50	20/50	20/50	20/50	20/50	20/50
Diameter of 20L/50L external paste tank (mm)	483/483	483/483	483/483	483/483	483/483	483/483	483/483
Height of 20L/50L external paste tank (mm)	775/1132	775/1132	775/1132	775/1132	775/1132	775/1132	775/1132
Size of solution bottles	1L	1L	1L	1L	1L	1L	1L
Size of auxiliary refill bottle	-	-	4L	-	4L	-	4L
Capacity of injector	60ml	60ml	60ml	60ml	60ml	60ml	60ml
Number of dedicated injectors	40	80	80	120	120	160	160
Number of agitation positions	40	80	87	120	127	160	167
Number of scales	1	1	1	1	1	1	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	1	5	1	7	1	9
Maximum No. of dyepots in each tray	6	6	6	6	6	6	6
Maximum No. of recipes in one batch	6	6	30	6	42	6	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	1	-	1	-	1	-
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)	34	34	34	34	34	34	34
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 %
Accuracy of paste dispensing (gravimetric)	± 1 g	± 1 g	± 1 g	± 1 g	± 1 g	± 1 g	± 1 g
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 rec,3 dye, not incl paste)	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
Flow rate of dispense paste (g/ min)(in air pressure 3kg, paste viscosity 60,000)	162	162	162	162	162	162	162
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
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	1.4 kW	1.6 kW	2.0 kW	2.2 kW	2.2 kW

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