

Cone Dyeing Apparatus Type 240

(Edition 2017/08)



- construction for 1 unit - Type 1-240
- 3 units - Type 3-240
- 6 units - Type 6-240
- 10 units - Type 9-240

- made from rust- and acid-resistant steel
- liquor tank with indirect steam heating for a liquor ratio of 1:20 to 1:50
- dye supplementary device
- designing device
- telethermometer
- manometer

On the Cone Dyeing Apparatus Type 240 even heavy and thick hat bodies are dyed thoroughly and uniformly in it's final size. The felt is not loosened. The loss in weight of the hat bodies is much smaller than with the open dyeing method.

All parts of the machine, being in touch with the dyeing liquor are made from rust- and acid-resistant steel. The material in connection with the robust construction guarantee a long life-time.

You can put on the hat bodies on the dyeing cones manually or by machine. This operation is easier when the hat bodies are prestretched on the stretching machine Type 222. You have to avoid inclusions of air between the hat bodies.

It is efficient to prepare the next dyeing operation during the dyeing process, by putting on the hat bodies on a further set of dyeing cones. When the dyeing process is finished, you exchange immediately the dyeing cones. Thus, the downtime of the

machine is reduced to a minimum. The preparing time is small by the practical design of the central looks.

The shape of the dyeing cones can be varied – on demand – in certain limits.

The continuous dyeing can be controlled by the designing device. You put several felt disks – cut out of the same felt quality as the hat bodies have – into the designing device. These cuts colour the same way as the whole set of hat bodies. Thus, you can control the colour intensity and the uniform colouring.

Dyestuff, dyeing assistant, and acid are added to the liquor bath over the dye supplementary device.

The hat bodies are coloured profoundly and equally. The dyeing time is essentially reduced. The felt quality remains as high as before.

During the dyeing process you have to control only the temperature. Thus, one operator can serve several machines.

The machine is delivered ready for operation.

Dyeing Process:

- put on the hat bodies on the cone
- put the cones into the machine
- lock the pressure hoods.
- switch on the pump
- add the dyeing assistant
- add the dissolved dyestuff
- increase the temperature up to the boiling point
- keep the temperature o the boiling point
- add acid
- if necessary you add dyestuff (to bring up to shade)
- rinse the hat bodies
- take out the hat bodies

Technical Data

Type	1-240 1-unit	3-240 3-unit	6-240 6-unit	9-240 10-units
Measurements				
Length	1000 mm	2200 mm	2200 mm	3540 mm
	39,4 inch	86,6 inch	86,6 inch	139,4 inch
Width	900 mm	900 mm	1800 mm	1800 mm
	35,4 inch	35,4 inch	70,9 inch	70,9 inch
Height	1530 mm	1530 mm	1530 mm	1530 mm
	60,3 inch	60,3 inch	60,3 inch	60,3 inch
Weight				
net	350 kg	600 kg	800 kg	1200 kg
	771,62 lbs	1322,77 lbs	1763,7 lbs	2645,55 lbs
gross	450 kg	700 kg	1000 kg	1400 kg
	992,08 lbs	1543,24 lbs	2204,62	3086,47 lbs
Power required kW	1,1	4	6,5	8,5
Cross section of the feed line qmm	1,5	1,5	1,5	2,5

