

Open Dyeing Apparatus Type 246

(Edition 2021/07)

Bahner



The Dyeing Apparatus Type 246 for open dyeing is clear constructed and offers a maximum reliability. The machine dyes heavy, tight full hat bodies into final size perfectly and evenly. By the careful treatment of the dyed material only one relatively low relaxation of the felt structure. The friction and reduction of weight from the hat bodies are minimal.

On the sieve bottom the liquid is sucked through the hat bodies. A particular contrived distributor provides of the fact that the dyed material is evenly turned in a driven speed and is turned simultaneously.

The operator can regulate the intensity of the dyeing process through the choice of low or high speed and to shorten thereby the process time.

Colour concentrate, additives and acid are added from the additional tank of the liquor during the dyeing process. During process, only premixed colour liquid must be added and temperature must be observed, so that an operator can serve several machines.

All parts of the machine which get into contact with the colour are made of stainless steel. In connection with the robust design, this results in a long lifetime of machine.

The electric motor for the rotor and for the distributor (coated pipe) is assembled

backwards to the machine to avoid contamination by steam. Electric Motor is typically 2 speeds, VFD (Variable Frequency drive) controlled.

The gear case is attached in front of the machine body and can be easily dismantled, if necessary. All gear parts run in an oil bath. The machine is delivered ready for operation.

Course of colouring (example):

- put hat bodies into the dye barrel filled with water
- heat up water to defined temperature. (acc. to dyeing material)
- admit dyeing auxiliary
- admit colour concentrate in the colour additional tank and the liquor
- bring temperature to the bubble point (due point)
- switch on quick speed
- add acid
- add colouring (nuance) if necessary
- switch on slow speed
- purging (keep pH factor from 4 to 3,5)
- take hat bodies out

Machine is program controlled with operator set points as described above.

Controls system:

We use Siemens Controls.



Technical Data

Type	0-246	1-246	2-246	3-246	4-246	5-246	6-246	7-246
dry weight kg	2,5	4,5	7,5	11,5	15	20	26	37
dry weight lbs	5,51	9,92	16,54	25,36	23,07	44,09	57,32	81,57
barrel Ø mm	665	665	800	900	1060	1150	1250	1400
barrel Ø inch	26,2	26,2	31,5	35,4	41,7	45,5	49,2	55,1
barrel height mm	1050	1100	1100	1040	1040	1040	1040	1130
barrel height inch	41,3	43,1	43,1	41	41	41	41	44,5
Measurements:								
length mm	1060	1060	1250	1350	1560	1650	1800	1950
length inch	41,7	41,7	49,2	53,2	61,4	65	70,9	76,8
width mm	900	900	1050	1150	1360	1480	1630	1800
width inch	35,4	35,4	41,3	45,5	53,5	58,3	64,2	70,9
height over all, mm	1700	1750	1750	2100	2100	2100	2130	2230
height over all, inch	67	68,9	68,9	82,7	82,7	82,7	83,9	87,8
height from floor, mm	1700	1750	1750	1850	1850	1850	1910	2000
height from floor, inch	67	68,9	68,9	72,8	72,8	72,8	75,2	78,7
Dimensions of case:								
length mm	1250	1280	1300	1400	1600	1800	2050	2200
length inch	49,2	50,4	51,2	55,1	63	70,9	80,7	86,6
width mm	1070	1070	1140	1370	1560	1700	1850	2000
width inch	42,1	42,1	45	53,9	61,4	67	72,8	78,7
height, mm	1900	1950	1950	2300	2300	2300	2300	2400
height inch	74,8	76,8	76,8	90,6	90,6	90,6	90,6	94,5
Weight approx.								
net, kg	700	750	800	1100	1200	1250	1350	1460
net lbs	1543,24	1653,47	1763,7	2425,09	2645,55	2755,78	2976,24	3218,75
pre-tax, kg	1000	1050	1150	1480	1600	1700	1920	2030
pre-tax, lbs	2204,62	2314,85	2535,32	3262,84	3527,4	3747,86	4232,88	4475,38
installed achievement:								
(kW) at 1000 Upm.	1,3	1,3	1,5	2,3	3,1	4,1	4,1	5,7
(kW) at 1508 Upm. Approx.	1,9	1,9	2,1	3,1	4,4	5,7	5,7	7,8
Cross section of the conductor qmm	1,5	1,5	1,5	1,5	2,5	2,5	2,5	4

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