



Fong's National Engineering Co., Ltd.

Members of Fong's Industries Group

ALLFIT

Medium Batch Dyeing Machine



50th ANNIVERSARY
SINCE 1963 | FONG'S INDUSTRIES
立信工業

Piece Dyeing

ALLFIT

Medium Batch Dyeing Machine

ALLFIT is designed for medium batches and available in different machine sizes. The liquor ratio and fabric circulation time are similar to that of the production machine, such that the recipe developed on it can be adopted directly. At present there are more than 2000 ALLFITs running in dyehouses around the globe.



6 Advantages

1. High Reproducibility

Accurately reproduce dyeing results.

2. High Automation

Advanced process control and automation applicable to production.

3. Compatible for Production

Similar Liquor ratio and cycle time as on production equipment.

4. Designed for Medium Batches

Suitable for medium batches; save production cost and environmental friendly.

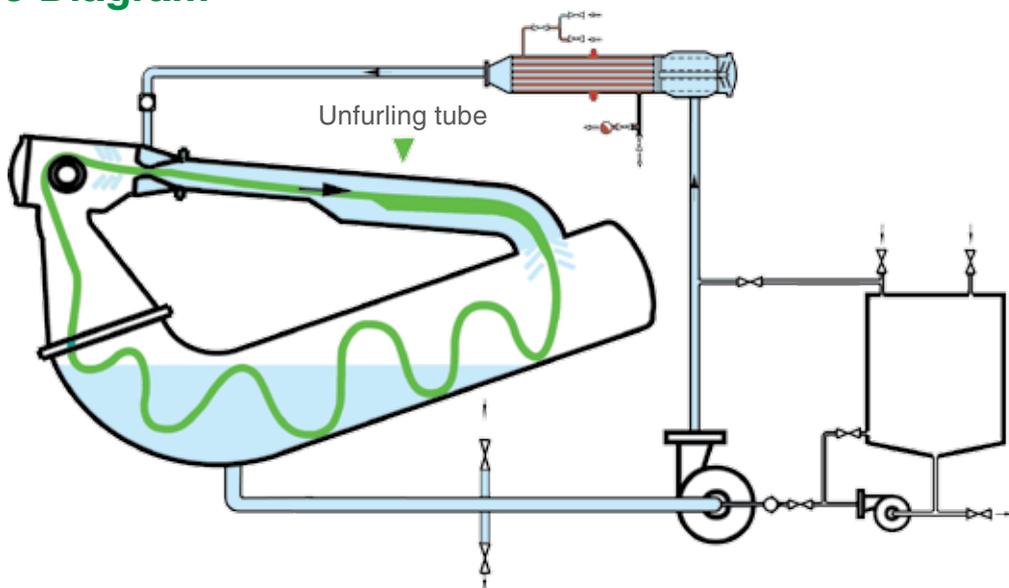
5. Plug & Run

The installation of the machine is easy and simple.

6. Development of Dye Recipe

Recipe developed can be directly applied to production.

Schematic Diagram



ALLFIT Medium Batch Dyeing Machine

Model	No. of Chambers	Capacity (kg)	Dimension (mm)		
			L	W	H
ALLFIT-1	1T	1 - 2	1100	1050	1780
ALLFIT-5	1T	4 - 6	1400	1400	2000
ALLFIT-10	1T	8 - 12	2100	1400	2250
ALLFIT-30	1T	20 - 30	4350	1280	2650
	2T	40 - 60	4350	2080	2650
ALLFIT-60	1T	40 - 60	4500	1400	2650
	2T	80 - 120	4500	2300	2650
ALLFIT-120	1T	80 - 120	4800	1450	2800
	2T	160 - 240	4800	2450	2800



Technical Data



Design temperature: 140°C
 Design pressure : 3.5bar
 Liquor ratio : down to 1:4.5
 Lifter reel speed : 7 ~ 200m/min (applicable to specific model only)
 Heating gradient : 25°C ~ 100°C approx. 5°C/min
 100°C ~ 130°C approx. 2.5°C/min (dry saturated steam pressure at 7bar)
 Cooling gradient : 130°C ~ 100°C approx. 3°C/min
 100°C ~ 80°C approx. 2°C/min (cooling water at 3bar, 25°C)

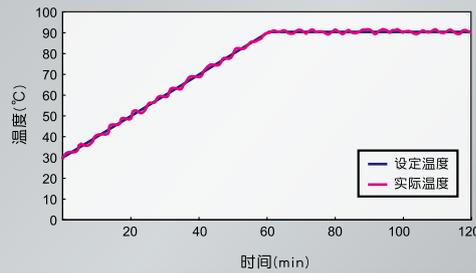
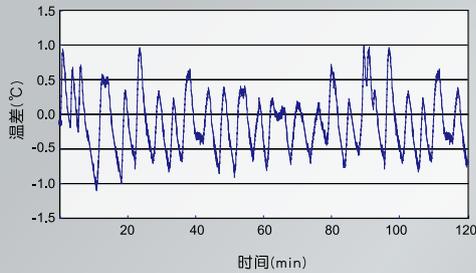
FC30 Series Program Controller

For The Most Dyehouse Network Advanced Control System

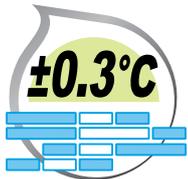
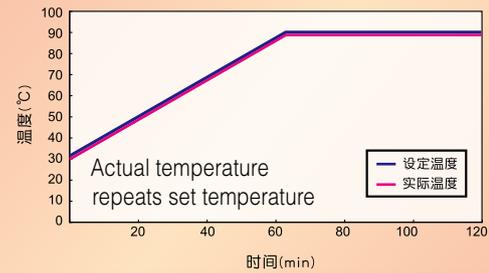
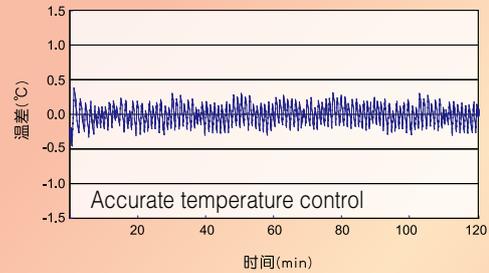
New generation of FC30 program controller has a 6.5-inch 640x480-pixel, TFT color LCD display together with novel control functions, provides the most cost-effective dye cycle control. FC30 can also integrate with our **Viewtex** and THEN-TDS central computer system, providing comprehensive control management.



Conventional PI Control Temp $\pm 1^{\circ}\text{C}$



Fuzzy Control Temp $\pm 0.3^{\circ}\text{C}$



Fuzzy Logic Temperature Control

Unique Fuzzy Logic Temperature Control technology, temperature control can be confined down to $\pm 0.3^{\circ}\text{C}$.



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