

## DF241C SERIES HIGH PRESSURE HIGH TEMPERATURE PACKAGE DYEING MACHINE



- All metal parts of the dyeing machine coming into contact with the dye liquor are made of high quality anti-corrosion stainless steel.
- High eminency unique DBNP pump with mechanical seal mechanism are controlled by inverter (used for more than 18.5KW), the flow can be controlled stepless.
- Vertical dyeing tank, rapid-locking lid with counterweight and triple safety interlocking mechanism.
- Patented automatic direction changing liquor commutation.
- Patented unique high efficiency shell-and-tube heat exchanger.
- Open type dosing tank and ration feeding system.
- Main tank automatic pressure increasing and decreasing system.(air pad type)
- Circulation liquor compensator. (full flood type)
- High accurate pressure differential sensor to control the liquor level.( air pad type)
- Multi-function intelligent computer and PLC to control the feeding ,water inletting, draining, temperature rising, decreasing and keeping, and the rising etc. automatically.

- Max. working pressure: 0.4Mpa.
- Max. working temperature: 140°C
- Heating rate: 20~130°C about 30 minutes (Saturated steam pressure 0.7Mpa)
- Cooling rate: 130-80°C about 20 minutes (cooling water pressure 0.3Mpa)
- Standard spindle dia. is  $\phi$  48mm, the  $\phi$  29mm triangle spindle is only for 6 layers package or below.
- Standard package size is  $\phi$  165mmxh160mm, the max. capacity is calculated according to that every package is 1 kg.

Model	NO.of Layers	NO.of Packages	Max Capacity (Kg)	Main pump power (Kw)
DF241C-43	6	24	24	5.5
DF241C-53		36	36	7.5
DF241C-70		54	54	11
DF241C-85		108	108	15
DF241C-90		114	114	15
DF241C-105		144	144	18.5
DF241C-120	216	216	22	
DF241C-43	8	32	32	7.5
DF241C-53		48	48	11
DF241C-70		81	81	15
DF241C-85	9	162	162	18.5
DF241C-90		171	171	18.5
DF241C-105		216	216	22
DF241C-120		324	324	30
DF241C-145		486	486	45
DF241C-166		621	621	55
DF241C-186	810	810	75	
DF241C-85	12	216	216	22
DF241C-90	12	228	228	22
DF241C-105	12	288	288	30
DF241C-120	12	432	432	37
DF241C-145	12	648	648	55
DF241C-166	12	828	828	75
DF241C-186	13	1170	1170	110
DF241C-200	20	2160	2160	110
DF241C-220	12	1500	1500	185
DF241C-226	15	2010	2010	185

### Product Features:

- It has two dyeing modes, air pad type and full flood type to choose for different dyeing techniques.
- Unique construction commutation (patent no. ZL200520074155.6),the high efficiency heat exchanger and DBNP pump are combined integrative, (patent no. ZL200520074154.1). they are designed without external circulation pipes, saving space 25%.
- Special compact designed calandria heat exchanger is installed outside, in same heat exchanging condition, it can achieve the best exchange effect of heating and cooling.
- Main pump are controlled by stepless flowing rate of inverter, it can achieve the same dyeing effect according to different dyeing techniques, and save power consumption when starting and de-loading.
- Special steady commutation mechanism allows liquid flow to change direction without stopping main pump, thus increasing liquor circulating times to improve level-dyeing property.
- With multi-function intelligent computer, it simplified the water inletting, draining, eternal flowing, internal flowing, and etc .operation.
- Pressure dewatering to decrease the water containing in package yarn.
- Dyeing with low liquor ratio of 1:5.5-6 can save dyestuffs, chemicals, steam and water thus decreasing the drainage.
- The high efficiency heat exchange between the liquid stream and dyeing liquor improve the speed of dyeing technique process, shorten the time.
- Rapid loading creel, easy to take out the package, thereby reducing the labor intensity and saving the working efficiency.

### Lifting Height Measurement

Model (Air pad type)	Layers	Lifting height(mm)	Model (Air pad type)	Layers	Lifting height(mm)
DF241C-35	6	3700	DF241C-105	9	5570
DF241C-35	8	4380	DF241C-105	12	6670
DF241C-40	4	3150	DF241C-110	9	5570
DF241C-43	6	3850	DF241C-110	12	6670
DF241C-53	6	4020	DF241C-120	9	5720
DF241C-53	8	4740	DF241C-120	12	6820
DF241C-70	6	4370	DF241C-145	9	6050
DF241C-70	9	5250	DF241C-145	12	7020
DF241C-70	12	6200	DF241C-166	9	6210
DF241C-75	6	4470	DF241C-166	12	7500
DF241C-75	9	5350	DF241C-186	13	8080
DF241C-85	6	4550	DF241C-200	20	7700
DF241C-85	9	5440	DF241C-200	15	8710
DF241C-90	6	4600	DF241C-226	15	9000
DF241C-90	9	5460			