

1. Pre-filter
2. Dehumidifier (chilling water) (optional)
3. Chemical dehumidifier (optional)
4. Inter blower
5. Heater
6. Humidifier (optional)
7. Mid-filter
8. Hepa filter (99.97%) (optional)
9. Inlet damper
10. Spray system
11. Coating pan
12. Outlet damper
13. Dust collector (optional)
14. Exhaust filter (optional)
15. Exhaust blower

### Specifications:

Model YC	SC-30	SC-40	SC-50	SC-60	SC-70	SC-80	SC-100	SC-125	SC-150	SC-170	SC-190	SC-200
Loading volume L	1.2-2.0	3.3-5.6	5.8-9.5	11-18	20-33	26-43	53-88	116-194	216-360	300-500	432-720	650-1070
Working capacity (B.D. 0.7) Kg/Batch	0.8-1.4	2.5-3.5	4.0-6.5	7.5-12	14-23	18-30	36-60	80-135	150-250	210-350	300-500	450-750
Working capacity (B.D. 0.8) Kg/Batch	0.9-1.6	2.5-4.5	4.5-7.5	9-14	16-26	21-34	42-70	90-150	170-280	240-400	340-570	500-800

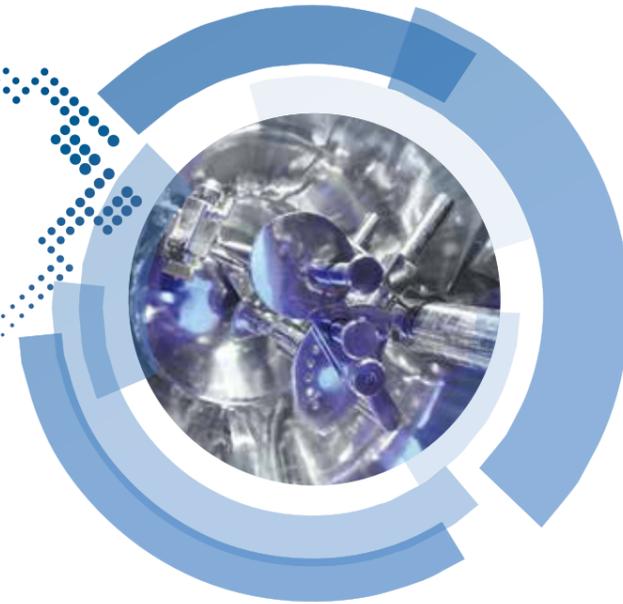
The above information is for reference only, please contact the service personnel for detailed functional specifications.

Agent

# Super Coater

### Suitable for:

- Film coating
- Enteric coating
- Sugar coating



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YENCHEN



SC-2018-EN

Since 1967



## Functions:

**Film Coating:** Coat with thin protection layer on the tablets. (Aqueous or organic solvent are applicable)

**Enteric Coating:** Coat with a uniform protection layer on the tablets to protect against the gastric acidity (PH2)

**Sugar Coating:** Coat with sugar protection layers on the tablets.



## Principles of the Super Coater:

**Film/Enteric Coating:** Pump the solution to a spray gun, then spray onto the tablets in the coating pan and continuous drying by heated air to form a uniform and thin layer on the tablet surface.

**Sugar Coating:** To spray syrup on the tablets by a metering pump, then repeat the process of spraying, tumbling, cooling and drying to form a thick sugar layer to protect the tablet.



Coating Pan And Baffle



Air handling unit :  
dehumidifier, humidifier



Schlick spray gun



SC-30/40/50F  
1-5Kg/Batch

## Control system:

1. PLC+HMI (Industrial PC) control
2. Conform to CFR21 Part11
3. User authorization level: 3~4 levels
4. Spray gun atomizing air: pressure and flow rate could be controlled independently
5. Recipes and production batch records storage is available
6. Critical parameter graph: temperature, humidity, air flow, coating pan rotation speed, solution spray volume, pressure difference etc.
7. Components of control system: well-known international brands. Pneumatic component: Festo



## Complete documents and test could be provided:

1. Qualification document: Includes DQ/IQ/OQ
2. Testing instruments are available at site: stainless delta element analyzer, surface roughness tester, velocity meter, PAO photometer etc.
3. FAT: All power sources are ready at site, such as steam, chilled water, and compress air. Sample trial can be executed.



Dry Dust Collector

## Features:

1. Comply with regulations of cGMP, PIC/S GMP, FDA
2. Coating pan punch hole design: High drying efficiency
3. Stable control of air inlet/outlet temperature, humidity, flow, pressure: Minimum waste of coating material.
4. Aqueous or organic solvent are applicable (Ex-Proof type)
5. Well uniformity coating for functional coating: including control release coating, film coating, micro tablet coating
6. High yield rate: Un-even coloring, broken, or twinning tablets can be less than 0.2%.
7. Stable control of critical parameters
  - a. temperature control: Setting Value  $\pm 2^{\circ}\text{C}$  (With optional air damper:  $\pm 1^{\circ}\text{C}$ )
  - b. Humidity control: Air inlet moisture can be controlled as  $9\text{g/Kg} \pm 1\text{g/Kg}$  ° (Chilled water: inlet  $7^{\circ}\text{C}$ , return  $12^{\circ}\text{C}$ )
  - c. Inlet air flow can be controlled within  $\pm 5\%$  in 30~100%.
  - d. Differential pressure of coating pan can be set and controlled with accuracy  $\pm 5\%$
  - f. coating spray rate can be set and controlled with accuracy  $\pm 5\%$
8. Use of Schlick spray gun, better atomization(optional)
9. Use of Donaldson dry dust collector: for environment protection(optional)
10. Air handling unit consists of pre filter, medium filter, and HEPA filter to assure processing air cleanliness.
11. A cantilever design of the spray guns rack is easy for operation (A slide track design is for the large model)
12. Automatic discharge device: complete discharge within 10 mins

## Optional device:

1. Explosion proof system (for organic solvent)
2. WIP system
3. Rotary dehumidifier/ Humidifier
4. Solution flow rate control: Load cell/ liquid flow meter
5. Spray gun pressure detector
6. Highly sensitive equipment: Close type material loading, discharging, sampling, and Bag-in Bag-out dust collector. conform to OEB-3, OEB-4.
7. Sugar coating system: Fully automatic design, easy to operate. Uniform coloring, less weight deviation, and smooth coating.



Peristaltic Pump



Solution Tank/digital Scale



SC-125F  
100-150Kg/Batch



SC-C-150F  
150-250Kg/Batch



SC-170F  
300-400Kg/Batch



SC-200F  
600-800Kg/Batch