



# THAI COATER<sup>®</sup>

## Automatic Film / Sugar Coating System

### Benefits

- ✓ cGMP Compliance
- ✓ Superior coating quality
- ✓ Consistent and Repeatable coating process
- ✓ Substantial coating time reduction
- ✓ Saving coating solutions up to 25%
- ✓ Easy to operate, clean and maintenance
- ✓ Safe and clean working environment



THAI COATER<sup>®</sup> FC 37" WITH DUST COLLECTOR

# THAI COATER<sup>®</sup>

## Automatic Film / Sugar Coating System

THAI COATER<sup>®</sup> is widely acknowledged as delivering highly efficient coating process. It is suitable for use in all sectors of pharmaceuticals industry and applicable for food, agricultural and allied industries. THAI COATER<sup>®</sup> series encompasses system operating on the laboratory scale up to production, capacities ranging from 2 kg to 400 kg.

THAI COATER<sup>®</sup> has been developed to ensure rapid and effective drying of sprayed core materials and hence favorable coating results and optimal processing times.

The system comes completely to perform coating operation. Control system range stretched from manual control system up to fully automated processing. Explosion-proof version, advanced accessories and validation services are available upon request.

Sugar coating system could also be supplied as a dedicated unit or appended to the Film Coating System for versatility of use.



THAI COATER<sup>®</sup> FC 15"

## Theory of Operation



Coating Pan is constructed with perforated stainless steel drum. The pan rotates on its horizontal axes. The pan is equipped with built-in baffles that, along with the rotation of the pan, promote uniform coating and prevent the core materials from sticking together during the coating process.

The core materials are coated by the spray distribution system. The spray suspensions are sprayed continuously onto the core materials, pre-warmed as they rotate in the coating pan. The volume and temperature of the inlet air are harmonized with the spraying speed to ensure that the core materials remain at a stable temperature throughout the spraying process. The preconditioned inlet air circulated through the pan dries the coated tablets and subsequently exhausted through filter and duct.

## Application

- ▶ Pharmaceuticals: Film Coating with Aqueous and Organic Solvent, Enteric Coating, Sugar Coating
- ▶ Food: Snack, Chewing gun, Candy, Health food
- ▶ Agricultural: Feed, Seed (Nutrient coat or Insect protection coat), Rice, Fertilizer (Slow release pellet)



THAI COATER® FC 37" Retractable spray guns holder arm. ▶

- ▶ THAI COATER® FC 43" with stud-wall assembly to separate operating room from technical area.



## Standard

- ▶ Coating pan and all contact parts made of stainless steel SUS AISI 304
- ▶ Adjustable coating pan rotating speed
- ▶ Inlet Air Handling Unit with Pre-filter (EU4), Electric or Steam Heating element and Blower
- ▶ Exhaust Air Handling Unit with Exhaust air bag Filter (EU4) and Blower
- ▶ Non-explosion proof driving motors except Pan driving motor
- ▶ Non-explosion proof Semi-Automatic Control with Safety equipments control
- ▶ Peristaltic pump and spray guns
- ▶ Coating solution holding tank with pneumatic stirrer

# Specification

	FC 15"	FC 25"	FC 32"	FC 37"	FC 43"	FC 49"	FC 55"	FC 61"
Capacity (kg)	2-3	12-15	30-50	60-100	90-140	150-180	200-300	300-400
Pan Motor (kW)	0.25	0.75	0.75	1.1	1.5	1.5	2.2	4.0
Max. Working Volume (L)	5	20	62	94	160	210	354	548
Width (mm)	700	780	980	1110	1450	1500	1800	2130
Length (mm)	750	940	1160	1300	1780	2000	2100	2200
Height (mm)	1500	1480	1770	1915	2000	2100	2300	2480

## Option

- ▶ Explosion-proof system
- ▶ Contact part of coating pan made of stainless steel SUS AISI 316
- ▶ Special inlet air and exhaust air filter requirements i.e. Hepa filter, Dust collector
- ▶ Dehumidifier (Chilled water type or Refrigerant type)
- ▶ Automatic control system with touch screen and programmable logic controller
- ▶ Paper or Paperless recorder
- ▶ Special charging and discharging device
- ▶ Automatic discharging system
- ▶ Washing in place (WIP) system
- ▶ Sugar coating equipments
- ▶ Validation document: Installation Qualification (IQ)/ Operational Qualification (OQ)
- ▶ Training course available upon request



Touchscreen controller  
with paper - recorder



Charging device



WIP system



## Pharmaceuticals and Medical Supply Limited Partnership

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