

APT-2.0 Spray Dryer



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/ DESCRIPTION

APT-2.0 Spray Dryer is an equipment specially developed for R&D and small scale production. Any details of the equipment are designed in order to replicate the behaviour of a production unit, maintaining an extremely compact design useful in small laboratories.

/ FEATURES

- Complete process control from large LCD touch screen monitor or a industrial touch screen tablet for remote control (excellent for high containment areas).
- Fully customizable (glass or steel column).
- Bag filter with second discharge for high powder recovery.
- Wheeled for easy transport in the work area.
- Really compact and user friendly design.

Large work surface

Brilliant 15" IP65 touch screen with advanced graphic functions



360° Glass around nozzle

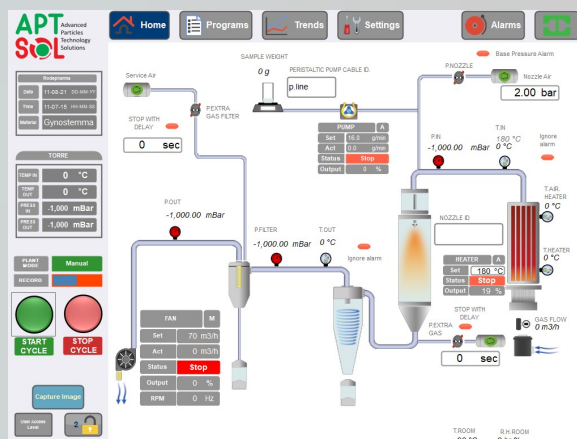
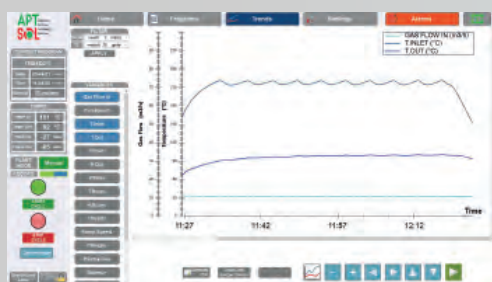
Cyclone and collection vessel available in different sizes and materials

Extra gas supply for more efficient process like production plant

APT-2.0 Spray Dryer

/ THE CONCEPT

APT-2.0 is designed to help scientists in fast and effective R&D and scale-up operation. Chamber size and cyclone are developed (by CFD and Logistic Function) for best powder recovery and the equipment is able to record all the process parameters for accurate post process evaluation.

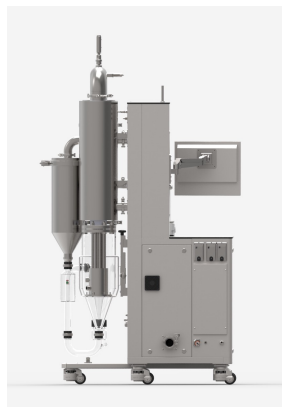


/ DATA PROCESSING

- Up to 15 data recorded
- USB, LAN and Wi-Fi connections
- Easy download in a sheet all the process recorded (PDF or Excel)
- Two different user level access (R&D and Production)
- Optional CFR 21 PART 11 compliance with full traceability and reporting for clinical productions

/ OPTION

- Extended column for increasing residence time
- Closed Loop for organic solvent processing
- Spray Congealing set-up
- CIP (Clean in Place)



APT-2.0 Spray Dryer

/ Nozzles Available

Two-fluid (allowable both internal and external mixing)

Special

Complete tips set, sizes ranging from 0.15 to 1.2 mm

Ultrasonic and vibrating types

/ Technical Data

Evaporative Capacity

2.0 L/h (more for organic solvent)

Max. Inlet Air Temperature

220 °C

Control System

17" Touch screen PLC or 12" Tablet

Heating Capacity

4000 Watt

Fan Capacity

Max. 65 m³/h

Power Supply

5000 Watt 23 Amp

Voltage

230 V, 50-60 Hz

Compressed air

dry and clean air or N₂: 6-10 bar

Dimension

115 x 80 x 210 cm (L x W x H)






























Weight

120 Kg

/ SERVICES

In our headquarter we also offer contract services for feasibility study, formulation development and consultancy around several encapsulation techniques.



Spray Drying	Spray Congealing	Fluid Bed (Melt) Coating	Fluid Bed Granulation	Ionic gelation	
					
					 Inhalation
					 Encapsulation
					 Modified Release
					 Taste Masking
					 Solubility Enhancement