



Features & Specifications

Suitable for	Aqueous / Aqueous + Solvents Feeds. /Microencapsulation
Evaporation Rate	500ml of water evaporation/hr at Max. drying air flow rate & Max. temperature in insulated condition.
Drying Temperature	Ambient to 280°C, Accuracy ± 1°C in step of 0.1°C through PLC.
Air Heater Capacity	3.0 kw
Aspirator - Blower Capacity (Air Flow)	110 Nm ³ /hr with variable frequency drive, in steps of 0.1 Hz.
Aspirator Blower's Motor (Flameproof motor)	0.5HP x 2880 rpm 3 phase Motor with single phase 230V AC input & three phase 230V AC output.
Feed Pump Capacity	1200ml/hr with 3mm ID tube with variable speed control in step of 1 ml/min of pump capacity controlled through PLC.
Spray System	Co-current - 0.7mm Tip, two fluid spray nozzle.
Autojet Deblocking system for spray nozzle	Fitted on Co-current nozzle with Adjustable stroke interval through PLC.
Hot Air Flow	Co-current

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



Export Sales: +91-9829132777
India Sales: +91-9588842361



IT-2013, Ramchandrapura Industrial Area,
Sitapura Extension, Jaipur-302022, India.



info@tesca.in
www.tescaglobal.com

Materials of Construction	
Main Body (Stand)	Mild Steel Power Coated
Air Heater Body	SS
Air Heater Element	Incolloy 800
Air Distributor	SS
Spray Nozzle	SS 316 with 0.7mm Tip
Possible Particle Diameter range	1-25µm
Mean residence time	1.0-1.5 sec.
Drying Chamber	9" Borosilicate glass, annealed - stress Relieved spark tested two piece construction for ease of cleaning & Powder removal in Assembly
Single Cyclons (High Efficiency)	Borosilicate glass, annealed - stress relieved spark tested.
Product Receivers	100ml Glass Bottle GL-45
Collection Bottle	100ml Glass Bottle GL-45
Scrubber	Borosilicate glass, annealed - stress relieved spark tested.
Connecting Tubing	PP Tubing
Cover of Product Receivers	Derlin
Tube for Peristaltic Pump	Silicon Tubing
Scrubber Medii	5 micron pp- washable
Fresh Air Filter	Prefilter - 5 microns
All Sealing gaskets & 'O' Rings	Silicon / Teflon
Air Pressure Regulator Cum Filter for Spray Atomization	Janatics Make 0-10kg/cm ²
Built in Control System	PLC based control system with RS 485 port.
	7" Touch screen HMI & Audio visual alarms panel.
	Variable Frequency Drive for Blower Motor
	2 Pole MCB for Elect. Heater
	SSR for Inlet air Heater & Plate Heater.
Software	3 Nos. PT-100 sensors for Temperature control Inlet, Outlet & Safety.
	With RS 485 communication, Audio-Visual Alarms & two way communication between machine & your computer / Laptop configuration.
	Data bank for various solvents Inlet air temperature safe range in Software.
Power Supply	Online graphical representation of Inlet & Outlet temperature on HMI.
	Single Phase 220V, 50Hz
Max Current Drawn	15 A (Full load)

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