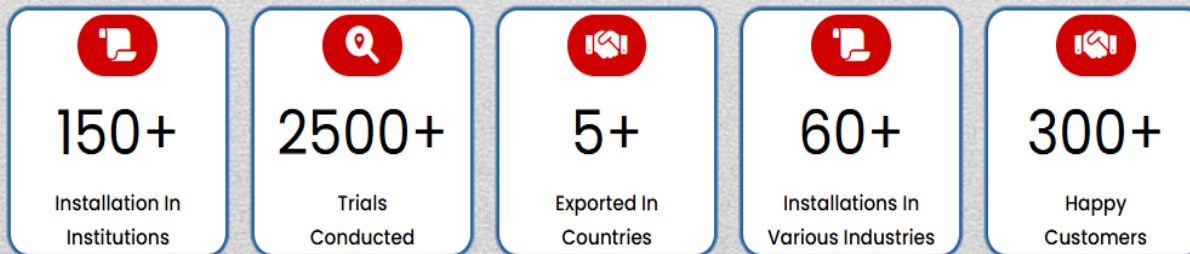


Techno Search Process And Systems

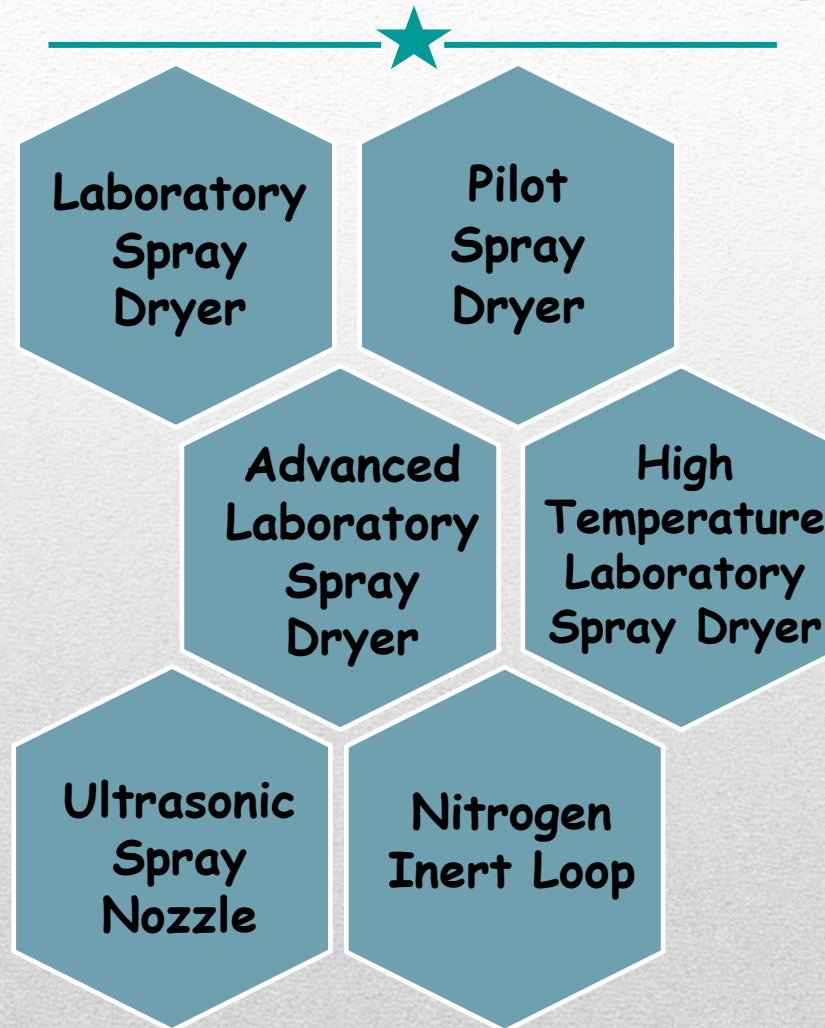
Manufacturers of Laboratory and Pilot Spray Dryers



Techno Search Process and Systems, is one of the India's leading Spray Dryer Manufacturers and Supplier. Being founded by technocrats, Techno Search has created a niche for itself in the manufacturing and successfully delivering the Spray Dryers, both **Lab Scale and Pilot Scale** across India and Internationally as well. Techno Search with its dedication since 2000 is now into **High Frequency Ultrasonic Nozzles** and **Advanced laboratory Spray Dryer** along with Spray Dryers which have been our specialized area. We are closely harmoniously intertwined with our principles and quality standards to provide the best-in-class services to our customers during sales and after sales services.



Manufactured Product Range



Laboratory Spray Dryer SPD-P-111



Technical Specification:

- **PLC based with 7" touch screen**
- **Evaporation rate:** 1lit/hr (H₂O)
- **In air temperature:** ambient to 280°c
- **Heater capacity:** 3 KW
- **Power Supply:** 220-240 VAC,50 Hz, Single Phase Max.15 Amp.
- **Aspirator Blower:** 0.5 HP, 2800 RPM, 3-phase FLP Motor
- **Pre-air Filter:** 5Microns
- **Hepa air Filter:** 0.3 Microns.
- **Chamber Diameter:** 9"
- **Provided with digital vacuum and pressure indicator**
- **Built in Hotplate and magnetic stirrer controlled through inbuilt controller**
- **Dimensions in mm (L x W x H):** 670 x 650 x 1600

Laboratory Spray Dryer SPD-D-111

Technical Specification:

- **Evaporation rate:** 1lit/hr (H2O)
- **In air temperature:** ambient to 280°c
- **Heater capacity:** 3 KW
- **Power Supply:** 220-240 VAC,50 Hz, Single Phase Max.15 Amp.
- **Aspirator Blower:** 0.5 HP, 2800 RPM, 3-phase FLP Motor
- **Pre-air Filter:** 5Microns
- **Hepa air Filter:** 0.3 Microns.
- **Chamber Diameter:** 9"
- **Provided with digital vacuum and pressure indicator**
- **Built in Hotplate and magnetic stirrer controlled through inbuilt controller**
- **Dimensions in mm (L x W x H):** 650 x 650 x 1250
- **PID Controller Digital Model**



Laboratory Spray Dryer SPD-E-111



Technical Specification:

- **Evaporation rate:** 1lit/hr (H₂O)
- **In air temperature:** ambient to 280°C
- **Heater capacity:** 3 KW
- **Power Supply:** 220-240 VAC,50 Hz, Single Phase Max.15 Amp.
- **MOC:** Mild Steel powder coated
- **Aspirator Blower:** 0.25 HP, 2800 RPM, 3-phase Motor
- **Pre-air Filter:** 5Microns
- **PID Controller Digital Model**
- **Provided with High Efficiency Cyclons and co current spray nozzle**
- **Chamber Diameter:** 7"
- **Dimensions in mm (L x W x H):** 670 x 650 x 1250

Advanced Laboratory Spray Dryer

Technical Specification:

- **Evaporation rate:** 1.5 to 3 ltrs/hr (H2O)
- Efficient PLC & Touchscreen Controlled.
- **Inlet air temperature:** ambient to 280°C
- **Heater capacity:** 12 KW
- **Power Supply:** 440 VAC, 50 Hz, Three Phase.
- **MOC:** SS with dull Pharma finish
- **Aspirator Blower:** 2 HP, 2800 RPM.
- **Pre-air Filter:** 5 Microns
- **Hepa air Filter:** 0.3 Microns.
- Co current spray nozzle
- Provided with Digital Vacuum Indicator and Pressure Gauge.
- **Dimensions in meters (L x W x H):** 2.5 x 2.5 x 3
- Peristaltic pump with in-built forward, reverse, and calibration facility through in-built Controller.
- Co – Current as well as Counter Current Nozzle option.
- Suitable for Aqueous and Solvent feeds.



Pilot Spray Dryers



Features:

- Peristaltic pump with forward, reverse and calibration facility
- Co-Current spray
- Solvent or aqueous feed
- Aseptic GMP unit.
- Inert loop for solvent recovery, twin cyclons, high pressure jet cleaner are optional

Technical specification

- Models PSD-D /PSD-P: 5 -50 kg/hr water evaporation at 250°C
- Power supply: 3-phase ,4 wire, 415 Volts ,50 Hz A.C. supply.
- Spray system: Two fluid spray nozzle
- Heater: Electrical heater
- Inlet air temperature: Ambient to 250°C
- Feed pump: Peristaltic pump(variable)

Ultrasonic Nozzle with Generator

Technical Specification:



- **Operating frequency:-** 120 KHz \pm 10%
- **Maximum power consumption:-** 20 W
- **Normal power consumption (Subject to flow rate and solution viscosity):-** 2 to 7 W
- **Maximum operating temperature:-** 65°C
- **Ultrasonic transducer Material:-** Titanium grad-5
- **Transducer enclosure:-** SS316
- **Liquid inlet:-** SS316 capillary tube of size 1/8"od & 1.5mm id
- **Liquid Input flow rate- Minimum:-** 0.8ml/min
- **Liquid Input flow rate- Maximum:-** 3 ml/min
- **RF Input (output from nozzle drive system):-** Gold plated SMA connector
- **O ring (To isolate transducer from external environment):-** Viton
- **Temperature sensor to monitor transducer temperature:-** K Type Thermocouple, Measuring range upto 700°C
- **Air inlet and outlet for cooling purpose required during operation of nozzle to maintain operating temperature below 65°C:-** Brass with Chrome Plating
- **Air Pressure:-** Between 1 to 2 Kg/cm²

Various Industry We Serve



Food Industry

Chemical and Textile Dyes and Pigment Industry

Pharmaceutical Industry

Nutraceutical Industry

Agricultural and Dairy Industry

Biotechnology Industry

Cosmetic Industry

Ceramic Research Industry

Herbal Industry

Flavours and Fragrance Industry

Metallurgical Industry

Our Trial / Job work Facility

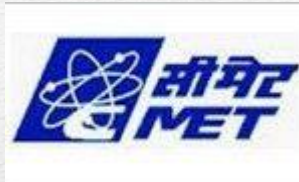


Laboratory Trial Facility

Pilot Trial Facility



Our Valued Clients





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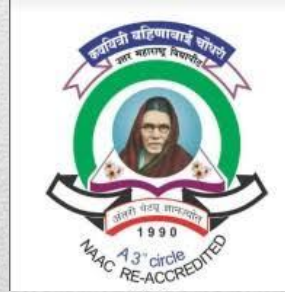


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