

DELIVERING
RELIABLE SOLUTIONS



VISION

To be the organization of choice for efficient, automated and customized engineering solutions

MISSION

To make future engineering technology accessible to clients today and help them flourish

VALUES

Assurance | Accuracy | Quality | Integrity | Commitment



CLIENTELE



Cipla



AER MILL



Customizable Models



Designer for Isolator Operation

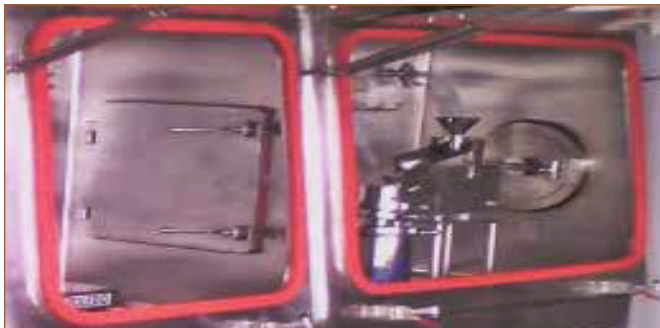
Size: 1" lab scale to 16" production scale models

Specifications:

- ▶ Achieves upto 5-10 micron or even lesser depending on the nature of the product
- ▶ Accurate & controlled dozing of material with Twin Screw Feeder
- ▶ Aperture changeable insert technology design for single & multi jet chambers
- ▶ Designed to operate under higher pressures
- ▶ Low temperature milling
- ▶ Better micronization results with special design adjustable type Venturi
- ▶ High-efficiency, dust separator combining inertial and static effects, with filter bags or cartridges, bag stroking or reverse-pulse automatic cleaning and final safety HEPA filter that exhausts filtered clean air to the atmosphere



Production Model



Isolator Model



Lab Model 25

TWIN SCREW FEEDER

Specifications:

- ▶ Easy conveying of material irrespective of the characteristic like Hygroscopic , Fluffy , Lumpy etc.
- ▶ De-lumping of material takes place before discharge
- ▶ Uniform flow ensures proper controlled feeding



Twin Screw Feeder Model 1



Twin Screw Feeder Model 2

VACUUM TRAY DRYER



Customizable Models



Designer for Isolator Operation

Size: 1 tray - 96 trays models

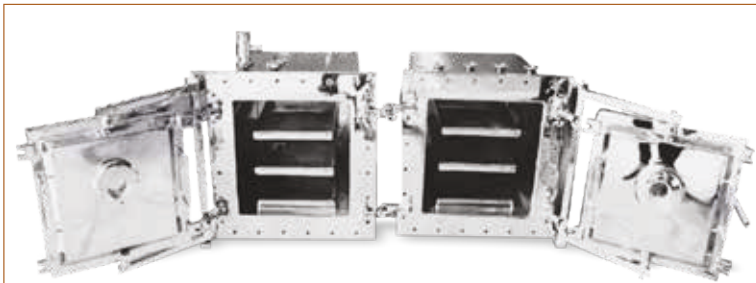
Specifications:

- ▶ Hollow pad type heating shelves for easy maintenance

- ▶ Full vacuum and zero leakage with specially designed dryer
- ▶ Fabricated heating shelves to ensure maximum level of surface flatness to achieve maximum contact surface area with the trays
- ▶ Mapping temperature accuracy can be achieved at $\pm 2^\circ$ at 80°
- ▶ Insulation & SS cladding to avoid heat loss and temperature maintenance



VACUUM TRAY DRYER 12 Trays With Total Automation With PHE System $\pm 2^{\circ}$



VACUUM TRAY DRYER ISOLATOR MODEL

ROTARY VACUUM DRYER



Customizable Models



Designer for Isolator Operation

Size: 1l lab model to 3000l Production Model

Specifications:

- ▶ N² pulse jet for filter cleaning for better operational efficiency
- ▶ Easy to clean internal surfaces ensures product purity
- ▶ Maximum vacuum maintained during drying process
- ▶ Suitable size condensers and receivers for solvent recovery
- ▶ Highly efficient vacuum line for drying material in optimum time



RCVD – ISOLATOR MODEL

SPRAY DRYER



Customizable Models



Designer for Isolator Operation



SIP / CIP

Size: 1l to 500l

Specifications:

- ▶ Safe for solvent based product operations
- ▶ Operation can be done using nitrogen with recirculation to reduce losses
- ▶ Highly efficient design to get maximum results with bare minimum product & solvent loss
- ▶ Fully automated lab model facility ready for product trials

Application: Pharma, Chemical, Food etc.



AGITATED NUTCHE FILTER DRYER



Customizable Models



SIP / CIP

Size: 5l to 5kl models

Specifications:

- ▶ Easy operation & Sturdy construction
- ▶ Jacketed / Limpet & Vacuum application
- ▶ Special design for high pressure & high temperature operations

Application: Pharma, Chemical, Food etc.

cGMP REACTOR



Customizable Models



Designer for Isolator Operation



SIP / CIP



Size: 5l to 25kl models

Specifications:

- ▶ Jacketed / Limpet / Fermentor / Reaction vessel type
- ▶ Special design for high pressure & high temperature operations

Application: Pharma, Chemical, Food & Beverages etc.



REACTOR ASSEMBLY

Reactor 100 l Skid Mounted with Graphite Condenser and Total PFA Coating for Dosing Tank, Reactor, Pipe Line And Receiver



TURNKEY PROJECT



Flash Distillation Unit



Reaction / Blending



Fractional Distillation Assembly

RIBBON BLENDER



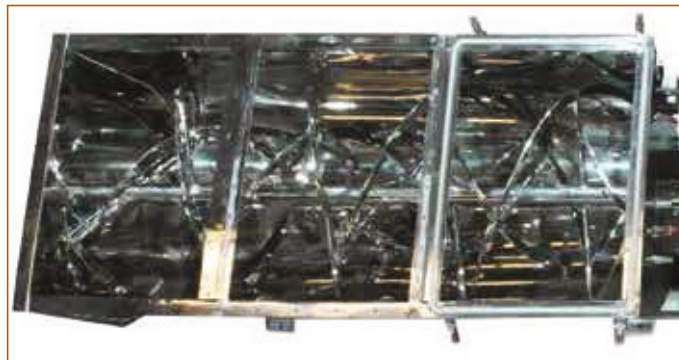
Customizable Models



SIP / CIP

Size: 25 Ltrs to 20 KL

- ▶ Special design blades for efficient mixing and blending.
- ▶ Double helical ribbon blades to reduce batch time.



PLANETARY MIXER



Customizable Models



SIP / CIP

Size: 5l to 500l models

- ▶ Sturdy construction allows smooth up down moment without vibrations
- ▶ Jacketed / Vacuum Application

Application: Pharma, Chemical, Food & Beverages etc.



AIR TRAY DRYER



Customizable Models

Size: 3 to 96 Trays Models

Specifications:

- ▶ Safe for operations for solvent based products
- ▶ The Trays have rounded corners with mirror finish from inside and outside
- ▶ Uniform air circulation so that there is uniform air current over the entire charge loaded in the trolley inside the dryer leak proof
- ▶ Door open switch for safety of heater & motor
- ▶ Cross Flow Air circulation



OSCILLATING GRANULATOR
Table Top Model



JACKETED CO MILL
With CIP & SIP System



MULTI MILL Direct Driven



Antistatic PFA Coated
CENTRIFUGE



Antistatic ETFE Coated
NUTSCHE FILTER



ETFE LINED VESSEL

PHARMA RANGE



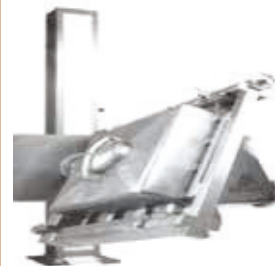
RMG



FBD



OCTAGON



CONTA



VIBRO SIFTER



MULTI MILL



CO MILL



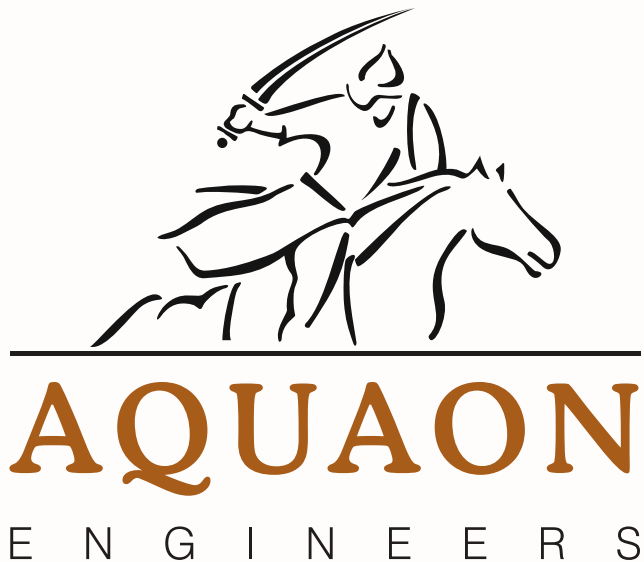
SPARKLER

- ▶ CONDENSORS
- ▶ HEAT EXCHANGERS
- ▶ HIGH PRESSURE AUTOCLAVES
- ▶ RECEIVERS
- ▶ HOT WATER SYSTEMS
- ▶ HYDROGENATORS

- ▶ BLENDERS & MIXERS
- ▶ STORAGE TANKS

COATING SOLUTIONS

- ▶ PFA
- ▶ HALLAR
- ▶ TEFLON
- ▶ ETFE
- ▶ SPECIAL APPLICATION COATING



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AQUAON ENGINEERS

J.R.D'souza House, H. No. 114 Village Ward B, Kurla (W), Near Kohinoor City, Mumbai 400 070, Maharashtra, India.

📞 Leon Pereira + 91 9820529488 / + 91 9158152577 ✉ sales@aquaonengg.com / leon@aquaonengg.com

🌐 <http://aquaonengg.com/>