

AN ISO 9001:2008 CERTIFIED CO.



FEBCHEM

ENGINEERING PVT. LTD.



Febchem Engineering Pvt. Ltd. (formerly known as Febchem Engineering Works) has been engaged in designing & manufacturing of process equipment & systems for the past 30 years. We are an ISO 9001:2008 certified company, successfully meeting the needs of various industries like Pharmaceutical, Chemical, Cosmetics, Herbal, Food etc.

We manufacture process equipment & systems in varying sizes that can be customized right from kilo lab model to plant scale, in compliance with cGMP standards. It is our insatiable desire for technical innovation and providing best quality products, supported by prompt service that differentiates us from competition.

As a part of our business philosophy, we conduct business with utmost care by following ethical & good code of conduct at every stage and ultimately to attain 100% client's satisfaction

Vision & Mission

Our vision is "To become a leading & globally preferred manufacturer of process equipment & systems".

Quality Policy

Our quality policy is "To enhance customer satisfaction through"

- Design of equipment/systems for reliability & maintainability.
- Supply of equipment/systems in compliance with customer/code requirements.
- Review of set quality procedures for continual improvement.
- Adherence to committed delivery schedules.

Manufacturing Facility

Our manufacturing unit is situated at Sanwer Road Industrial Area in Indore. Works is spread over 20000 sq. ft. area with ample natural & support lighting system, ventilation, water, electric power and ambience



DRYERS

AGITATED NUTSCHE FILTER DRYER



ANFD is a multi-utility equipment which is a combination of filter and dryer unit in a single equipment. It is used to separate solid and liquid by filtration under pressure or vacuum. The equipment has wide field of applications in chemical, pharmaceutical, Agrochemicals, fine chemicals and food industries.

Special Features:

- Hygienic Design - Closed Vessel design ensures Odourless, Contamination Free & Non-Polluting working conditions.
- Multi-functional utility – Carries out various phases of process operations, viz. Crystallization, Filtration, Extraction, Discoloration, Washing and Drying
- Saves on power, labour, floor space, material wastage & time, thereby enhancing profitability.
- Versatile, safe & user friendly.
- Enables easy non-manual and automatic cake/solid discharge.

Capacity Available : 100 litres to 4000 litres

RVD is a horizontal cylindrical jacketed shell with a hollow agitator, rotating in close clearance. It can handle materials ranging from slurries to solid shapes, granular, crystalline or fibrous solids. Specific examples include centrifuged solid, pharmaceuticals, starch, pigments, rayon, staple, synthetic rubber etc.

Special Features :

- As low temperature drying can be maintained by high vacuum, it is possible to dry heat sensitive materials.
- Low energy consumption due to higher differential temperatures.
- High thermal efficiency.
- Automated discharge, easy handling, with condenser & receiver, recovery of solvents.

Capacity Available : 200 litres to 10000 litres

ROTARY VACUUM DRYER



ROTO CONE VACUUM DRYER



RCVD is a multipurpose drying unit, extremely useful for uniform and low temperature drying of heat sensitive crystalline products & granules used in chemical, pharmaceutical & food industries.

Special Features :

- Under vacuum operation facilitates enhanced drying efficiency, low temperature operation and economy of process by total solvent recovery. All these factors put together make this equipment very energy efficient.
- The dryer rotates at very low speed (5 to 15 rpm) and thus has very low wear & tear and requires little maintenance.
- Helps cGMP based working by achieving optimum dust control, while offering advantages of efficient charging and discharging of materials.

Capacity Available : 50 litres to 5000 litres

FLUID BED DRYER



Fluid Bed Drying is ideal for a wide range of both heat sensitive and non-heat sensitive products. It is suited for powders, granules, agglomerates, and pellets with an average particle size normally between 50 and 5,000 microns. It finds its application in Chemical, Pharmaceutical & Bio-chemical, Polymer, Food & Dairy industries.

Special Features :

- Uniform processing conditions are achieved by passing hot air through the product layer under controlled velocity conditions to create a fluidized state.
- Fluidization gives easy material transport, high rates of heat exchange at high thermal efficiency while preventing overheating of individual particles.
- Highly Customizable with optional packages, suiting varied requirements of the clients.

Capacity Available : 10 kg to 300 kg

VTD is used for drying high grade, temperature sensitive & oxygen sensitive materials. It is highly suitable for drying hygroscopic, lumpy and glutinous substances. It is widely used in pharmaceutical, chemicals & food industry.

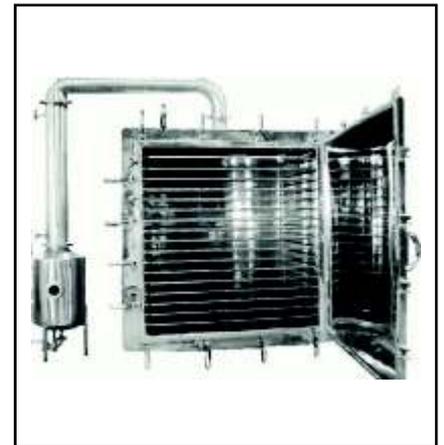
Special Features :

- Heavy duty design to withstand full vacuum.
- Construction & finish as per cGMP standards.
- Steam sterilizable models are also available (on request)
- Double door loading available in larger models.

Capacity Available : 6 to 192 trays.

We also undertake manufacturing of Tray Dryers with similar capacities.

VACCUM TRAY DRYER



BLENDERS

OCTAGONAL BLENDER



Octagonal blender is used for blending delicate & fragile free flow products like powder or granules. It is also the best way to mix heavy & abrasive products. Examples of materials or substances mixed in this way include colour, plastic, flour, rags, pharmaceuticals, metal powders, minerals, fibres etc.

Special Features :

- The Octagonal shape of the container gives good quality of blending even at low RPMs resulting into less power consumption.
- Normal Cycle times are typically in the range of 10 to 20 minutes
- Hygienic design – Smooth interior for GMP/cGMP cleaning
- Easy charging & discharging
- Well balanced even at higher capacities.

Capacity Available : 25 litres to 5000 litres

V-TYPE BLENDER



The “V” blender is an efficient and versatile blending machine for mixing dry powders homogeneously.

Examples of materials or substances mixed in this way include pharmaceuticals, flour, fish meal, enzymes, coffee, cocoa, milk powder, chocolate, gelatine, crème caramel and dessert powder, baby food, custard powder, starches, pigments, colorants, cosmetics, powdered or granulated plastics, fiberglass, etc.

Special Features :

- The “V” shape gives sufficient continuous movement to the particles, thereby resulting in better quality blending at medium RPM.
- Normal Cycle times are typically in the range of 15 minutes
- No dead spots.
- Easy charging & discharging.

Capacity Available : 50 litres to 2000 litres

Double Cone blender is used to produce homogeneous solid-solid mixture. It interfolds the material regardless of its flow properties.

Examples of materials or substances mixed in this way include pharmaceutical granules, semolina flour, seeds, starch, coffee beans and ground coffee, cocoa, chocolate flakes or granules, powdered milk, baby food, preparations to make dehydrated soups and creams, leaf waxes, detergent granules, soap flakes, artificial fertilizers, plastic in powder, ground or pellet form, fibreglass, etc.

Special Features :

- The slant double cone design enables uniform mixing and eliminates dead spots.
- Normal Cycle times are typically in the range of 10 minutes
- Both charging and discharging action are by gravity flow and are arranged so that the blender may be installed in a continuous process operation.
- Well balanced even at higher capacities.

Capacity Available : 50 litres to 5000 litres

DOUBLE CONE BLENDER



RIBBON BLENDER



Ribbon Blender comprises of a U-shaped horizontal trough and a specially designed Double Helical Ribbon Agitator rotating within.

Examples of materials or substances mixed in this way include Food & Ingredients viz., Infant formula, cocoa mix, cake mixes, gelatine etc.

Special Features :

- The ribbons move the material both radially and laterally to ensure thorough blends in short cycle times. This triple mixing action ensures fast, efficient blending.
- Dust Proof Top Cover with Window can be provided on demand.
- An alternate design is the paddle agitator with paddles positioned to move the material in opposing lateral directions as well as radially. The paddle design is generally employed where friable materials are being blended, and when batches as small as 15% of the total capacity are going to be mixed in the blender.

Capacity Available : 100 litres to 10,000 litres.

PLANETARY MIXER

Planetary Mixer is an ideal mixer for the products of different viscosities, densities, shapes & proportions. It provides a very homogeneous and intensive mixing due to the typical ex-centric movement of the product which is created by the ex-centric position of the mixer-arm in relation to the centre of the bowl.

The major uses include production of latexes, adhesive, personal care & cleansing products, dispersion & micro-dispersion of chemical & agricultural pesticide formulations. It is suitable for mixing/blending powders as well as thorough mixing of ointments, creams, lotions, toothpastes, resins, slurries, ceramics, colours, pigments, rubber & other compounds.

Special Features :

- Different designs of beaters are available to suit the mixing requirements of wide variety of materials.
- Jacketed bowls can be provided for heating /cooling of products during mixing.
- Bowl mounted on castor wheels for easy mobility.
- Easy dismantling for the purpose of cleaning & sanitizing.

Capacity Available : 50 kg to 1000 kg



ALLIED PRODUCTS

BASKET CENTRIFUGE



In basket centrifuges, the solids & liquids are separated by centrifugal force using a filter media (usually a cloth) mounted over the rotating basket

Suspension : 3 or 4 point type with visco dampers

Capacity Available : 18", 24", 36" & 48"

CHEMICAL REACTOR



A chemical reactor is a vessel designed to facilitate chemical reaction among various raw chemicals, known as reactants. They are also used for other processes such as solids dissolution, product mixing, distillation, crystallization, liquid/liquid extraction and polymerization.

Types offered : Jacketed vessel, limpet coil reactor, dimple type reactor and **high pressure reactor or autoclave.**

Capacity Available : 50 litres to 20,000 litres

HEAT EXCHANGER



Heat Exchangers are most commonly used in almost all industries like-Refineries, Chemical plants, Fertilizer plants, Oil & Gas and Shipping. Typical use of Heat Exchanger is to cool or heat the fluids or gases.

Types Offered : Shell & Tube type, U tube type & Removable bundle type.

**ROTARY
EXTRACTOR**



**ROTARY DRUM
VACUUM DRYER**



**PRESSURE NUTSCHE
FILTER**



DRUM FLAKER



MULTIMILL



BALL MILL



VIBROSIFTER



STORAGE TANKS



FEW OF OUR ESTEEMED CLIENTS

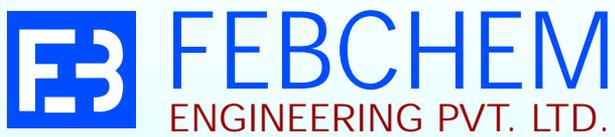
INTERNATIONAL

- BRB Polymers Ltd., Kushtia, Bangladesh
- PT Ganpati Tr., Medan, Indonesia
- CSR Technologies, Durban, South Africa

DOMESTIC

- Indian Herbs Research Co., Ltd, Saharanpur
- Ipca Laboratories Ltd
- Khaitan Chemicals & Fertiliser Ltd., Indore
- Lupin Ltd.
- National Aerospace Laboratories, Bangalore
- Navin Fluorine International Ltd , Dewas
- Nuclear Power Corporation of India Ltd. Mumbai
- Raja Ramanna Centre For Advance Technology , Indore
- Ranbaxy Laboratories Ltd.
- Sonic Biochem Extraction Ltd., Pithampur
- The Gwalior Forest products Ltd., Shivpuri

FEW OF OUR EXPORTS



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