Khushi Group

True Becomes Top

CUSTOMERS **DELIGHT**
IS NOT ONLY OUR MOTTO,
IT'S OUR **HOBBY.**

- SPRAY DRYERS
- AGITATED THIN FILM DRYERS (ATFD)
- MULTI EFFECT EVAPORATORS (MEE)
- SPIN FLASHED DRYER (SFD)
- FLUID BED DRYER (FBD)
- PACKED DISTILLATION COLUMN
- DISTILLATION PLANT
- EFFLUENT TREATMENT PLANT
- HOT AIR GENERATOR
- THERMIC FLUID HEATER
- HEAT EXCHANGERS (SHELL AND TUBES)
- REACTORS (VESSELS, PRESSURE VESSELS)
- HDPE/PP SPIRAL TANKS
- SCRUBBING SYSTEMS (HDPE/PP/SS)

CERTIFIED ISO 9001:2015 COMPANY

www.khushigroup.net

ABOUT US

KHUSHI ENGITECH LLP is in Manufacturing wide range of all industrial Equipment , like REACTION VESSELS, EVAPORATOR, DRYERS, HEAT EXCHANGERS, HEATERS, SCRUBBER, STORAGE TANKS, HDPE / PP SPIRAL TANKS etc, WE NEVER COMPROMISE WITH QUALITY IN WORK, WE HAVE VERY SOUND TECHNICAL MEMBERS TO DESIGN ALL EQUIPMENTS IN PROPER WAY, WE NEVER COPY ANY EQUIPMENT FROM OTHERS, WE HAVE OUR OWN DESIGNED. AS WE HAVE MORE THEN 25 YRS EXPERIENCE OF VARIOUS CHEMICAL INDUSTRIES. We test our products under strict quality parameters to make sure that only the best products are being delivered to our clients. FAITHFULNESS WITH CUSTOMERS IS OUR MOTTO AND WE FILL GREAT AND PEACEFUL WITH IT.

Khushi Group

True Becomes Top

Khushi Engitech LLP

(Since: 2018)

Infrastructure Facilities

(Established in 63000 sq/ft. area)

To remain ahead of our competitors we aim to manufacture and supply high quality work to our prospective customers. This requires us to keep our production unit well-equipped and upgraded to execute even bulk orders with ease. With the use newer and innovative techniques we are able to keep abreast with changing market scenario.

OUR MISSION

Work hard to making new Equipment design to bring in the market for easy, safe and economic process and operations to compete the globally.

OUR VISION

To DELIGHT our customers with our commitment for service, Quality with lowest price, before time delivery.

OUR VALUES

we want and we need to grow, but honestly customers growth is priority for us. Because our existence is due to our valued and owner able customers.

Our Team

Our team consists of highly qualified, experienced and knowledgeable industry professionals that are passionate.

OUR PRODUCTS

- SPRAY DRYERS
- AGITATED THIN FILM DRYERS (ATFD)
- MULTI EFFECT EVAPORATORS (MEE)
- SPIN FLASHED DRYER (SFD)
- FLUID BED DRYER (FBD)
- PACKED DISTILLATION COLUMN
- DISTILLATION PLANT
- EFFLUENT TREATMENT PLANT
- HOT AIR GENERATOR
- THERMIC FLUID HEATER
- HEAT EXCHANGERS (SHELL AND TUBES)
- REACTORS (VESSELS, PRESSURE VESSELS)
- HDPE/PP SPIRAL TANKS
- SCRUBBING SYSTEMS (HDPE/PP/SS)

SPRAY DRYER

A spray dryer is a type of industrial machinery used to turn liquids into powders or granules. This whole thing is done in a single step. The liquid is atomized into tiny droplets, and the moisture is subsequently removed by drying the droplets in a hot air stream. its widely used in chemical, pharmaceuticals, and food industries like milk powder, other powder formation from fruits etc.

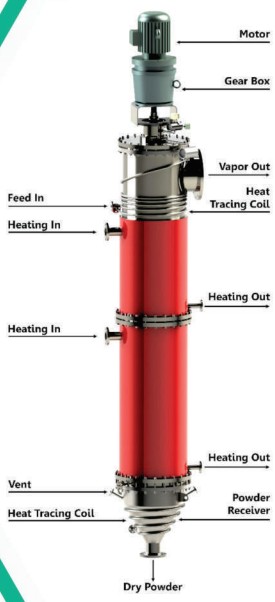
Khushi Group

True Becomes Top

www.khushigroup.net

Agitated Thin Film Dryer (ATFD)

Agitated Thin Film Dryers (ATFDs) are used across several industries, most notably in the pharmaceutical, food, and chemical sectors, to dry heat-sensitive and viscous materials into free-flowing powders. They excel at concentrating liquids, recovering solvents, and treating industrial waste by creating a thin, agitated film that promotes efficient drying may use under vacuum for processing various effluents and sludges.



Spin Flash Dryer (SFD)

A spin flashed dryer is an industrial drying system that uses centrifugal force and hot gas to instantly remove moisture from wet, cohesive materials like pastes, slurries, and filter cakes. It is known for its speed, energy efficiency, and ability to process heat-sensitive materials into fine, free-flowing powders.

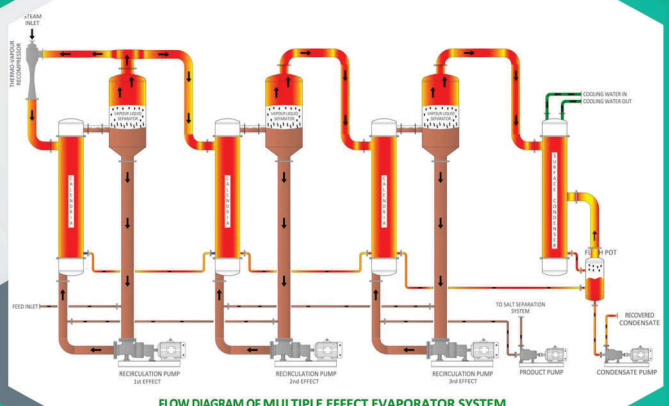
Khushi Engitech LLP

Fluid bed dryer (FBD)

A fluid bed dryer is an industrial device that uses a stream of hot gas to fluidize solid particles, making them behave like a liquid, to achieve efficient and uniform drying of granules, powders, and other materials. Key components include an air processing system, a product container with a perforated plate for air distribution, and an expansion chamber with filters to separate the dried particles from the air before it's discharged. The process is used across various industries, including pharmaceuticals, food, and chemicals, for applications like drying granules and preserving food products.

Multi Effect Evaporator (MEE)

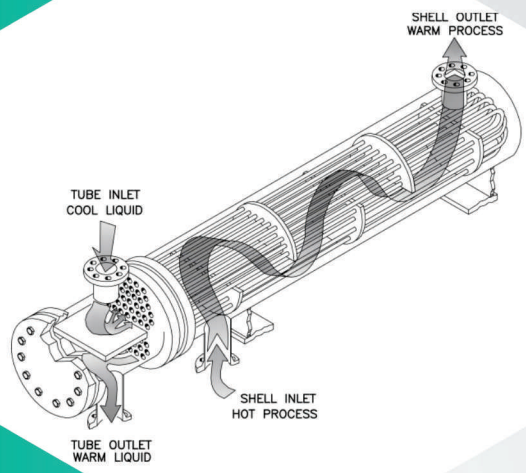
A multi-effect evaporator (MEE) is manufactured for efficient, staged evaporation and requires high-grade stainless steel for construction, typically using 316 or 304 grades, and a high-pressure vapor source to initiate the process. Key specifications include a specific number of effects, feed and vapor flow rates, and operating temperatures and pressures to control concentration, minimize scaling through forced circulation, and achieve desired Zero Liquid Discharge (ZLD) standards. The design incorporates heat exchangers, evaporation chambers, a vacuum system, pumps, and piping, customized for specific applications in various industries.wastewater treatment in various industries



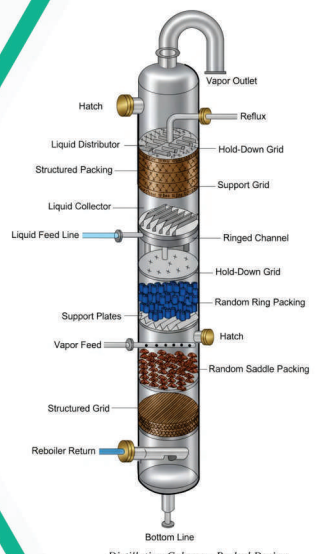
FLOW DIAGRAM OF MULTIPLE EFFECT EVAPORATOR SYSTEM

Shell And Tube Heat Exchanger

Shell And Tube Heat Exchanger Manufacturing Involves Design And Engineering, Including Mechanical Design, Thermal Calculations, And CAD Drawing Creation, Followed By Material Fabrication Through Rolling, Machining, And Welding To Produce Components Like The Shell, Tube sheets, And Baffles. The Process Continues With Bundle Assembly, Where Tubes Are Inserted And Fixed Into The Tube sheets, And Finally With Final Assembly, Testing, And Pressure Testing To Ensure Structural Integrity And Adherence To Standards Like BIS, TEMA, BRITISH STANDART etc.



Packed Distillation Column



Distillation Column—Packed Design

A packed distillation column specification includes dimensions, such as height and diameter, and specifies the type of packing (e.g., Intalox, poll rings, saddles, structured mesh), which dictates performance characteristics like mass transfer efficiency and pressure drop.it is widely used in chemical industries for obtain desired pure component from mixture of different liquid and gases mixtures.

Hot Air Generator

A hot air generator is manufactured by designing a system to burn fuel in a combustion chamber, then passing the hot flue gases through a heat exchanger to heat ambient air circulated by a fan. The process involves selecting the appropriate material for the high-temperature components, integrating a robust heat exchanger, burner system, and fan, and designing the overall unit's structure and the delivery ducts. Key specifications include the fuel type, desired heat output (Kcal/hr or temperature), efficiency, capacity, and choice of direct or indirect heating.

Thermic Fluid Heater

Thermic fluid heaters are industrial heating systems that use a high-temperature fluid to transfer heat in a closed-loop system, allowing for high temperatures at low pressure. Their specifications vary by design, fuel type, and intended application, but they generally feature high thermal efficiency and precise temperature control.

SCRUBBING SYSTEM (HDPE/PP/SS)

Scrubbing systems in the chemical industry use a liquid or solid substance to remove harmful gases, particulate matter, and other pollutants from exhaust streams before they are released into the atmosphere. Wet scrubbers, the most common type, spray a liquid, often water or a chemical solution, onto the gas to absorb or react with the pollutants.it is now commonly used in industrial boiler assembly for effective use for scrubbed small particle of ash particle

Scrubbing system is a small heart of chemical industry which is strong role to run industry as efficiently.

REACTORS (VESSELS AND PRESSURE VESSELS)

Chemical reactors are used in the chemical industry as specialized vessels to carry out chemical reactions under controlled conditions, enabling the production of a wide range of chemicals, plastics, polymers, fertilizers, fuels, and pharmaceuticals. They are vital in various sectors, including petrochemicals, pharmaceuticals, and food and beverage processing, where they are designed for maximum efficiency and product quality. Common types include continuous stirred-tank reactors.

Pressure vessel reactors are used in the chemical industry to perform chemical reactions under controlled high temperature and pressure conditions, transforming raw materials into new products. These vessels are essential for safety and precision in producing a wide range of chemicals, polymers, plastics, fertilizers, and pharmaceuticals, providing controlled environments for processes like mixing, heating, cooling, and gas storage. Common types include batch autoclave reactors and continuous stirred-tank reactors, often constructed from stainless steel or other resistant alloys.

Khushi Group
True Becomes Top

HDPE/PP SPIRAL TANKS & REACTORS

HDPE spiral tank and reactor specifications include materials (PE 100 grade HDPE), capacities ranging from 500L to 200 KL, working temperatures from -40°C to 110°C, and pressure resistance (0-150 psi), with wall thickness varying from 8mm to 50mm. These tanks are designed to be non-corrosive, lightweight, and durable, with various shapes like cylindrical, vertical, and horizontal options available for different industrial chemical storage and processing applications.

Key Specifications:

Capacity:

Available in a wide range, from small-scale 500L tanks to large-capacity 100 KL (100,000 Liters) industrial tanks.

Working Temperature:

Suitable for a broad range, generally from -40°C up to 90°C or 110°C, depending on the specific grade and application.

Shapes:

Offered in vertical, horizontal, cylindrical, and rectangular forms to suit different space constraints and processing needs.

Corrosion Resistance:

HDPE is highly resistant to a wide range of chemicals, making these tanks ideal for storing acids and other aggressive substances.

Durability:

The tanks are non-corrosive, do not rust or chip, and are built to withstand harsh outdoor environments.

Lightweight:

Significantly lighter than metal equivalents, making them easier to handle, transport, and install.

Spiral Design:

The spiral winding technique used in construction offers improved mixing and heat transfer, which is particularly beneficial in reactors.

CERTIFIED ISO 9001:2015 COMPANY

CUSTOMERS **DELIGHT** IS NOT ONLY OUR MOTTO, IT'S OUR **HOBBY.**

Khushi Group
True Becomes Top

Khushi Engitech LLP

(Since: 2018)

OFFICE
B-1202, The Capital, 12th Floor,
Science City Road, Opp- Hetarth Party Plot,
Sola,Ahmedabad- 380060, Gujarat, India.

FACTORY
Block no : 1399/1, Dharusan Road,
Opp : Ganpat University, Kherva – 384001,
Ta & Dist : Mehsana, Gujarat, India.

+91 80000 09797 | +91 781 8888 999 | +91 9274517499

engineering@khushigroup.net www.khushigroup.net