

ENGINEERING
THE FUTURE OF
**PROCESS
SYSTEMS**



ABOUT US

With over three decades of experience, we are a trusted manufacturer of process and utility equipment serving diverse process industries. Founded by mechanical and process engineers, we combine technical expertise, quality craftsmanship, and a solution-oriented approach to deliver customized equipment and complete turnkey projects through our group companies.

With our on-site service support and installation teams we have been able to successfully commission complex industrial projects in various parts of India.

OUR PRODUCT RANGE ■■■



PROCESS EQUIPMENTS (REACTORS/HES/AUTOCLAVES/BLENDERS)



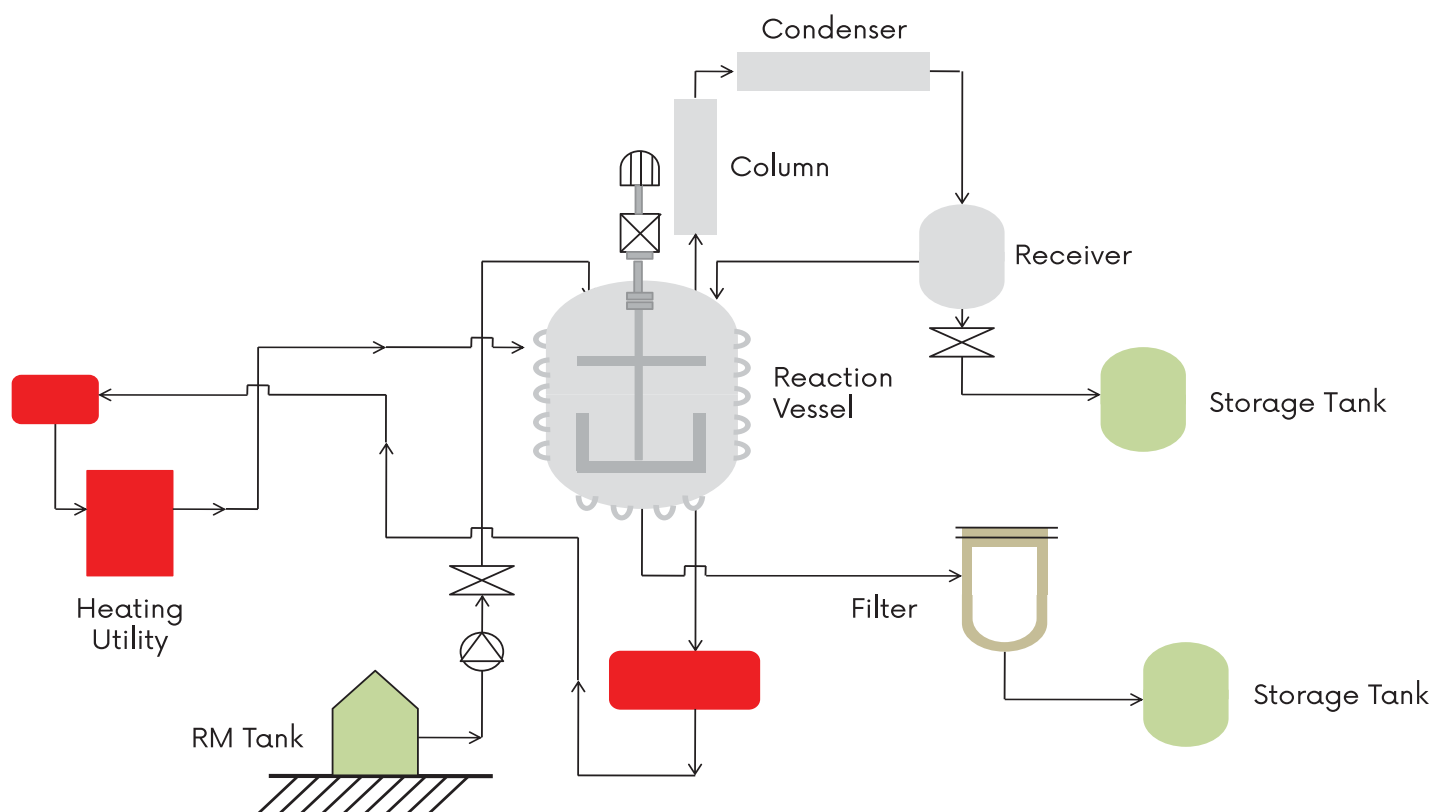
STORAGE VESSELS



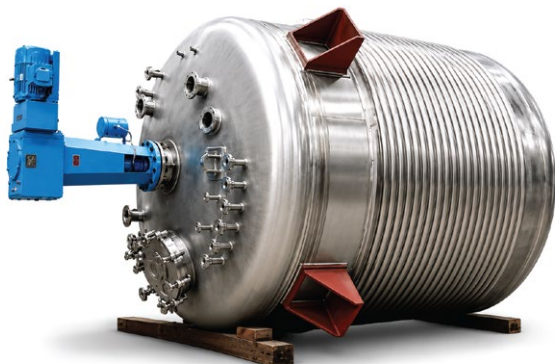
PRODUCT FILTRATION SYSTEMS



HOT SIDE UTILITIES (BOILERS/TFH/HAG/HWG)



REACTORS/ MIXING VESSELS



Engineered for Precision, Scalability, & Safety Our industrial reactors are the heart of chemical processing, designed to facilitate reactions under strictly controlled conditions. Whether you are producing specialty chemicals, pharmaceuticals, polymers, paints & pigments or food ingredients, our systems deliver optimal yield, heat transfer and mixing efficiency.

We manufacture customized reaction vessels ranging from 100L up to 45KL with all the accessories in various MOCs – Different SS grades like 316, 304, 310 etc. as per specific process requirement.; MS & CS grades

We have designed and manufactured the reactors for high pressure applications up to 35 bar working pressures and or full vacuum

INDUSTRIAL STORAGE TANKS



We understand that the integrity of your materials is crucial to your operations. We provide comprehensive, durable, and reliable storage solutions designed to hold chemicals, raw materials, fuel, water, and hazardous waste.

Our tanks are engineered to meet stringent industry standards for safety, longevity, and structural integrity, ensuring peace of mind for your processing facilities. Designed according to industry standards - API 650, ASME, ASTM D1998, PESO

Tanks can be custom made in various orientations like Vertical, Horizontal, Bottom flat top cone or as per any specific design requirement

Our tanks are backed by rigorous quality testing, including ultrasonic testing and hydrostatic testing, to ensure that every unit meets the highest safety standards.

SHELL & TUBE HEAT EXCHANGERS



We design and manufacture high-performance Industrial Shell and Tube Heat Exchangers, engineered to provide robust, reliable thermal management for the most demanding applications. Our exchangers offer superior heat transfer efficiency, facilitating the heating, cooling, condensation, or evaporation of liquids and gases.

Constructed to withstand high-pressure and high-temperature environments, our units are indispensable across diverse industries, from oil & gas to petrochemicals, speciality chemicals and pharmaceuticals

To ensure maximum heat transfer, tube bundles and utility flows can be cross flow or counter flow type as per process demand. Our HEs are designed in accordance with TEMA and ASME standards to ensure maximum process efficiency.



PROCESS FILTERS

In modern manufacturing, process purity is non-negotiable. Whether you are filtering sensitive pharmaceutical liquids, chemical reagents, or high-viscosity industrial oils, PVE provides advanced filtration solutions designed to ensure the integrity of your end product. Our filters remove contaminants, protect valuable equipment, and enhance overall operational efficiency.

Our filters Constructed from various standard MOC grades of SS, MS & CS designed to handle extreme temperatures and pressures.

We provide various filtration solutions by offer different filters like:

- Candle filters
- Bucket filters
- Nutsche filters
- Cartridge filters

Agitated Nutsche filters cum driers (ANF & ANFD)



AGITATED NUTSCHE FILTER DRIER (ANFD)

An Agitated Nutsche Filter Dryer (ANFD) is a versatile, closed-vessel system used primarily in the pharmaceutical, chemical, and food industries to perform solid-liquid separation, washing, and drying in a single unit.

The operation of an Agitated Nutsche Filter Dryer can be broken down into four distinct, highly optimized stages:

- Filtration
- Washing
- Drying
- Discharge



RIBBON BLENDERS

Our Industrial Ribbon Blenders are engineered for superior, homogeneous blending of dry powders, granules, and viscous pastes. Utilizing a specialized double-helical agitator design, these blenders deliver fast, consistent, and reliable mixing for a wide variety of industries, including pharmaceuticals, food, chemicals, and cosmetics.

Available in batch capacities ranging from **5250 Liters to 10,000+ Liters**, our machines are designed to meet strict GMP standards.

STEAM GENERATOR

With over 35 years of experience in the boiler industry we offer a Non-IBR instant steam generator suitable for industries requiring quick steam without the regulatory overhead of the Indian Boiler Regulations

Experience high-performance, compact steam generation with our Non-IBR Coil Type Steam Generators. Specifically designed for applications where high-pressure IBR certification is not required, our generators offer rapid steaming, exceptional efficiency, and low-cost maintenance.

Ideal for small to medium-scale industries, including:

- Paint & pigment industries
- Textile Processing & Garment Finishing
- Pharmaceuticals & life sciences
- Chemical Industries
- Food Processing & Dairy
- Rubber & Plywood Industries

Non-IBR steam generators comes in multiple fuel options like PNG / LPG; Diesel / LDO / FO Our steam generator comes in range from – 100Kgs/Hr. to 1000 Kgs/Hr.



MODEL- EFFISTEAM	ES100	ES200	ES300	ES400	ES600	ES800	ES850	ES1000
Steam O/P (Kg/Hr)	100	200	300	400	600	800	850	1000
Elec Load (HP) - ESG	2.5	2.5	2.5	3	3	4	4	4
Elec Load (HP) - ESO	3	3	3	3.5	3.5	4.5	4.5	4.5
Fuel Consumption - NG	6.5	13	19	26	39	52	56	65
LPG	5.45	10.9	16.35	22	33	44	46	55
Diesel	6	12	18	24	36	48	51	60
LDO	6.2	12.5	18.6	25	37.5	49.6	53	62

HOT AIR GENERATOR

The Hot Air Generator is a high-efficiency solution designed to generate hot air, essential for industrial drying and heating. It comprises of heating chamber assisted by burner operated on various fuels like oil, gases and solid forms of briquettes.

Our HAG comes in two designs – Direct and indirect as per industry specific requirement.

In direct HAG systems flue gases are combined with fresh air and force drafted via blower to the process.

In indirect HAG systems there is no direct interaction between fresh air intake and flue gases ensuring clean and dust free heated air for the process.



THERMIC FLUID HEATER

Our Effitherm series is a state-of-the-art, forced-circulation helical coil-type thermic fluid heater engineered to provide uniform, high-temperature heating while operating at very low pressures. Designed for reliability and efficiency, these packaged, fully automatic heaters are ideal for industries requiring precise temperature control without the need for water treatment or corrosion management.

Fully automatic series offers varied combustion fuel options like Solid, Liquid and gases ranging from 1 lakh kcal/hr. to 15 lakh kcal/hr.



MODEL - EFFITHERM	ET100	ET200	ET300	ET400	ET600	ET800
Heat O/P (Kcals/Hr)	100000	200000	300000	400000	600000	800000
Elec Load (HP) - ESG	7	8	10.5	12	18	22
Elec Load (HP) - ESO	7.5	9	12	13	19	23
Fuel Consumption - NG	14	28	42	56	84	112
LPG	10	20	30	40	60	80
Diesel	11	22	33	44	66	88
LDO	12.5	25	38	50	75	100

MS INDUSTRIAL CHIMNEY

Mild Steel (MS) Industrial Chimneys are essential structural components designed to exhaust hazardous exhaust gases, smoke, and heat from industrial operations into the atmosphere. They are commonly used in boilers, furnaces, incinerators, and power plants to maintain air quality standards and safety.

Our chimneys are manufactured according to **Indian Standards (IS)**, such as **IS 6533 Part 2 1989** and **IS 875 Part 3**, ensuring safety and durability.

We manufacture various chimneys like self-supported or guy-rope supported structures, with diameters as per utility demand.

We provide complete turnkey solution of chimney right from design, manufacture till erection on site based on customer needs.



STEAM BOILER COILS/ TFH COILS

We manufacture various makes steam boiler coils as per OEM design. Our coils are made from BS3059 seamless / ERW pipes as per Non-IBR norms.

We follow stringent quality norms in material selection and welding procedures. Our coils are tested by as high as 45 bar hydraulic pressure.

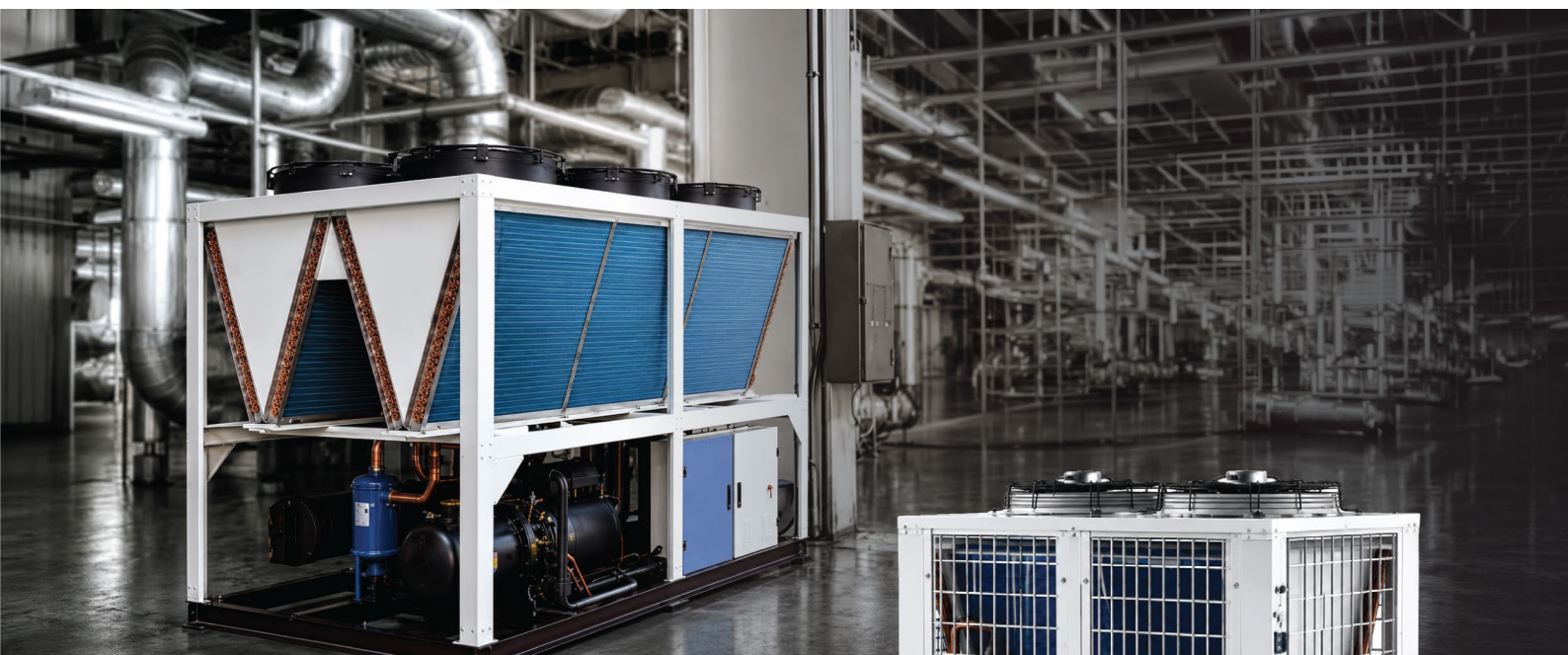
We can manufacture boiler and thermic fluid heater coils as per OEM designs and have supplied such coils for more than 1500 clients.



STEAM BOILER / THERMIC FLUID/HAG/ HWG RELATED ANCILLARY PRODUCTS

We provide turnkey solutions for all our Equipments which comprises of Gas Trains, Oil Ring main systems for FO fired units, condensate recovery systems, feed water tanks, water softeners





Description

This series of heatpumps can generate hot water at 80°C at high COP. These heatpumps are ideal for industrial applications and processes requiring water at high temperature.



MODBUS
communication



Environment friendly
refrigerant



Available in
water to water

Features

- Water outlet temperature up to 75°C to 90°C
- Capacity available up to 200kw to 1000kw
- Wide ambient range 7-43°C
- Environment friendly green refrigerant
- Protective system with thermostat & pressure switch
- High efficiency heat exchanger
- ZW series compressor
- Overload protection
- Smart touch



INDUSTRIES WE SERVE ■■■



**CHEMICALS & INTERMEDIATES
MANUFACTURERS**



**TEXTILE
INDUSTRIES**



**AGRO CHEMICAL
INDUSTRIES**



**FMCG
INDUSTRIES**



**PHARMACEUTICAL
INDUSTRIES**



**PROCESS
CONSULTANTS**



**PAINTS &
DYES**



**ENGINEERING
CONSULTANTS**



**DAIRY &
FOOD**



OUR CLIENTS ■■■



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