



PROCESS EQUIPMENT & FABRICATION SYSTEMS

Custom Engineered Industrial Equipment for Process, Filtration and Utility Applications



PRODUCT RANGE

Filtration Vessels | Bag Filter Housings | Multi Cartridge Filter Housing | Pleated Filter Systems
Pressure Tubes for Membranes | Storage Tanks | Jacketed Vessels | Mixers and Agitators
Skids and Structural Stands | Industrial Fabrication

FEATURE STRIP

Custom Fabrication | SS / MS / FRP Construction | Precision Welding | Skid Mounted Systems | Heavy Duty Industrial Design

APPLICATION STRIP

Process Plants | Chemical Industry | Water Systems | Pharma and Food | Industrial Utilities

Built to Perform. Fabricated to Last.

Rain Power Filtration

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COMPANY PROFILE & ENGINEERING FOUNDATION

ABOUT

Rain Power Filtration operates as an engineering-driven organization specializing in process equipment fabrication and industrial systems. The company develops robust equipment designed for durability, performance, and long-term operation under demanding conditions. Fabrication capability includes stainless steel, mild steel, and FRP-based equipment with a focus on structural strength, precision welding, and application-based design.

VISION

To build reliable and performance-oriented process equipment that meets real industrial operating conditions with consistency and engineering discipline.

MISSION

Deliver durable and efficient fabricated systems
Maintain precision in manufacturing and design
Focus on real application performance
Ensure long-term operational reliability



**Engineering
Discipline**



**Quality
Focus**



**Execution
Reliability**



**Practical Design
Approach**



**Continuous
Improvement**

ENGINEERING STRENGTH

- In-house fabrication for SS / MS / FRP equipment
- Precision welding and structural design control
- Capability to manufacture vessels, tanks, housings, and skids
- Adaptation to process requirements and site conditions
- Focus on long service life and low maintenance

Fabrication Defines Performance



PROCESS EQUIPMENT RANGE & APPLICATIONS



Filtration Vessels	Bag Filter	Multi Cartridge Housing	Pleated Filter Systems
SS Pressure Tubes	Storage Tanks	Jacketed Vessels	Mixers & Agitators
Hopper Modelter Housing	Skids & Structural Stands	Hopper Sludge Tanks	



Process
Plants



Chemical
Industry



Water
Systems



Pharma
& Food



Industrial
Utilities



Pipeline
Systems

Filtration, Storage, Mixing, Heat Transfer, Process Handling, Equipment Protection

Pre-Filtration → Processing → Storage → Transfer → Discharge

Complete Equipment. One Engineering Approach.

FILTRATION VESSELS



ICONIC DETAILS

- **Type:** Vertical Filtration Vessel
- **Function:** Solid-liquid separation
- **Flow:** Top / Side Inlet → Media Bed → Bottom Outlet
- **Operation:** Pressure filtration

MOC OPTIONS

- Stainless Steel (SS304 / SS316)
- Mild Steel (Epoxy Coated)
- FRP (Fiber Reinforced Plastic)

TECHNICAL SNAPSHOT

Parameter	Value	Media	Sand / Carbon / Resin
Size	200 mm to 3000 mm dia	Orientation	Vertical
Pressure	Up to 10 bar	Connection	Flanged

APPLICATION STRIP

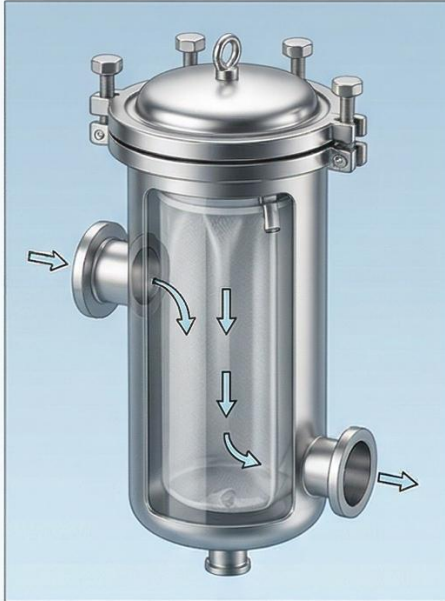
Water Treatment	Process Filtration	Chemical Industry	Cooling Water	Pre-Filtration Systems
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SYSTEM ROLE

- Removes suspended solids
- Protects equipment
- Improves downstream performance
- Ensures stable operation

Robust Construction. Reliable Filtration.

FINE FILTRATION SYSTEMS



**BAG FILTER HOUSING
(CUT VIEW)**

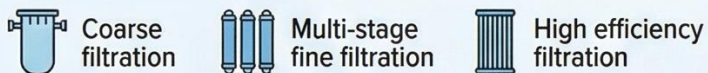


**MULTI CARTRIDGE FILTER
(MCF) (CUT VIEW)**

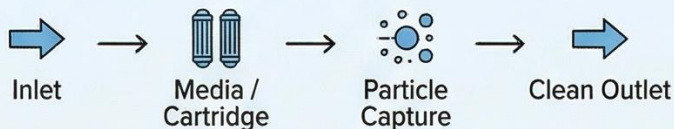


**PLEATED FILTER HOUSING
(CUT VIEW)**

SYSTEM SNAPSHOT



WORKING FLOW (STRIP)



MOC TABLE

Component	SS	MS	PP / UPVC
Body	SS304 / SS316	Epoxy Coated	PP / UPVC
Filter Element	SS / Fabric	SS	PP / Polyester
Basket / Support	SS	MS / SS	PP
Cover	SS	MS	PP
Gasket	EPDM / PTFE	EPDM	EPDM

TECHNICAL SNAPSHOT

Size ————— DN25 to DN500

Filtration ——— 1 to 100 micron

Pressure ——— Up to 10 bar

Temperature — Up to 80°C (PP/UPVC lower)

APPLICATION STRIP



KEY ADVANTAGE BLOCK

- ✓ High filtration efficiency
- ✓ Compact design
- ✓ Easy element replacement
- ✓ Scalable system

LIMITATION

Requires periodic element replacement

Fine Filtration. Maximum Protection.

SS PRESSURE TUBE (MEMBRANE HOUSING)



Product Overview: High-performance stainless s membrane housing designed for RO and UF systems, built for high pressure, corrosion resistance, and long service life.

Design Configuration

Type	Side Port / End Port
Orientation	Horizontal / Vertical
Construction	Cylindrical Vessel
Finish	Mirror / Matt
Fabrication	In-house

Size & Capacity

Size	Membrane	Elements
4 Inch	4040	1-6
8 Inch	8040	1-10

MOC Table

Component	Material
Shell	SS304 / SS316 / SS316L
End Caps	SS
Ports	SS
Fasteners	SS
Seals	EPDM / Viton

THICKNESS OPTIONS

3 mm → Low pressure
5 mm → Standard
8 mm → Heavy duty

PRESSURE DATA

Operating → Up to 60 kg/cm²
Test → Hydrotested

CONNECTION DETAILS

Main Port → Flanged / TC
Side Port → TC / Threaded / Flanged

KEY FEATURES



Full SS construction



High pressure strength



Corrosion resistant



Leak-proof welding



Easy maintenance



Custom design

APPLICATIONS



Industrial RO



High pressure systems



Pharma water



Food & beverage

SS vs FRP

SS → Strong, long life, repairable
FRP → Limited strength, replaceable

QUALITY CHECKS

Hydro tested
Leak tested
Weld inspection
Dimensional check

Engineered for Pressure. Built for Reliability.

CUSTOM FABRICATED PROCESS SYSTEMS



CORE POSITIONING (HIGHLIGHT BLOCK)

All systems designed and fabricated as per process requirement

CUSTOMIZATION MATRIX (IMPORTANT BLOCK)

ORIENTATION

Vertical / Horizontal

SHAPE OPTIONS



Cylindrical (Round)



Square



Rectangular

TYPE OPTIONS

Storage Tank

Jacketed Vessel

Mixer Tank

Hopper Bottom Tank

PROCESS + MEDIA HANDLING:  Water  Air  Vapor  Gas  Oil  Chemical  Slurry

PRESSURE RANGE (CUSTOM BLOCK)

Pressure design as per application requirement
Atmospheric to high pressure systems (design-based)

MOC OPTIONS (TABLE)

Material Type	Options	Material Type	Internals
Stainless Steel Mild Steel	SS304 / SS316 Epoxy Coated	FRP Internals	Corrosion Resistant SS / MS

SIZE RANGE

Capacity – 100 Liters to 50,000+ Liters **Diameter / Width** – As per design **Height / Length** – Custom fabricated

EQUIPMENT DETAILS



STORAGE TANK

Liquid storage and handling.
Vertical / Horizontal.



JACKETED VESSEL

Heating / cooling applications.
Uniform temperature control.



MIXER TANK

Agitator with motor drive.
Blending and mixing.



HOPPER TANK

Conical discharge.
Sludge / solids handling.

KEY FEATURES

- ✓ Fully customized fabrication
- ✓ Heavy-duty industrial constructions
- ✓ Heavy-duty industrial construction
- ✓ Long service life
- ✓ Precision welding

PROCESS FLOW



Designed Around Your Process. Built to Perform.



SERVICE CAPABILITY



**Installation
Support**



**Commissioning
Assistance**



Troubleshooting



**System
Optimization**



**Maintenance
Support**

SPARE SUPPORT:

- Availability of critical spares
- Filter elements, Gaskets and seals
- Nozzles and fittings
- Replacement components

PROJECT APPROACH:

EXECUTION STRENGTH:

- In-house fabrication capability
- Design to delivery control
- Adaptation to site requirements
- Consistent quality across projects



Understanding



Design



Fabrication



Installation



Support

CLIENT CONFIDENCE: Reliable engineering, Consistent performance, Long-term operational support

CONTACT SECTION

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From Fabrication to Function – We Deliver Complete Systems