

TECHNICAL DATASHEET

MASTERLY SPARKLER FILTER PRESS



MASTERLY

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Manufacturer & Exporter of Pharmaceutical, Chemical & Food Processing Machinery

Manufacturer	: Masterly Engineering India Pvt. Ltd.
Model	: Sparkler Filter Press
Design Standard	: GMP / Sanitary Construction
Material of Construction (MOC)	: SS304 / SS316 / SS316L



The **Masterly Sparkler Filter Press** is a precision-engineered filtration system used for solid–liquid separation in various process industries. It operates on the principle of pressure filtration, ensuring clear filtration with minimal product hold-up. The filter assembly consists of horizontally arranged filter plates with filter media, enclosed in a leak-proof housing.

DESIGN FEATURES

Feature	Description
Type	Horizontal plate type, pressure filter
Filter Plates	Stainless steel plates with support screens
Sealing	Leak-proof tightening by central screw or hydraulic system
Mounting	SS trolley-mounted, mobile unit
Filter Media	Filter cloth / paper / membrane (as per process)
Inlet & Outlet Connection	Tri-clamp / flange type
Surface Finish	Internal mirror finish, external matt finish
Operation Pressure	Up to 6 kg/cm ²
Design	Zero Hold-Up or Conventional type (optional)

APPLICATIONS

Industry	Typical Products
Pharmaceuticals	Syrups, API solutions, ointments
Chemicals	Dyes, resins, intermediates
Food & Beverage	Juices, flavors, edible oils
Cosmetics	Creams, lotions, essential oils

TECHNICAL SPECIFICATIONS

Model	Plate Size (inch)	No. of Plates	Filtration Area (m ²)	Cake Holding Capacity (Litre)	Approx. Flow Rate (LPH)
ME-SFP-8	8"	8 – 10	0.10 – 0.15	2 – 4	300 – 500
ME-SFP-12	12"	8 – 12	0.25 – 0.35	5 – 8	700 – 1200
ME-SFP-14	14"	8 – 14	0.40 – 0.60	10 – 15	1200 – 1800
ME-SFP-18	18"	8 – 18	0.80 – 1.00	20 – 30	2000 – 3000
ME-SFP-24	24"	8 – 24	1.50 – 2.00	40 – 60	4000 – 6000

Notes:

- Flow rate and cake capacity depend on product viscosity, solids content, and filter media used.
- Material of construction: SS304 / SS316 / SS316L as per customer requirement.
- Optional features: Zero Hold-Up design, pneumatic or hydraulic plate tightening, jacketed plates for temperature control.

UTILITIES REQUIRED

Utility	Specification
Power Supply	415 V / 3 Phase / 50 Hz (for motorized models)
Air / Nitrogen Pressure	4–6 kg/cm ² (optional for pneumatic system)
Inlet Pressure	1–2 kg/cm ² for uniform filtration



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OPTIONAL ACCESSORIES

- Zero Hold-Up design for maximum yield
- Pressure gauge and safety valve assembly
- Vent and drain valve with sampling point
- SS diaphragm pump / sanitary centrifugal pump
- Flameproof / non-flameproof motor
- Jacketed filter housing for temperature control

ADVANTAGES :

- Compact, fully enclosed system (no leakage or contamination)
- Easy operation and maintenance
- Uniform cake formation and filtration
- High product recovery, low hold-up volume
- Available in GMP-compliant design

Call our team of highly skilled engineers to discuss your requirements or fill out our [online enquiry](#) form.

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Masterly 2023 We reserve the right to make technical modifications
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