**FILTER HOUSINGS**

# Mobile Filter Housing System

Filtration unit in which a bag, cartridge or basket filter housing is mounted on a wheeled, braked stainless steel carrier and moved around the plant, with an optional pump. Used for multi-point and periodic filtration such as tank transfer, recirculation and drum and IBC emptying.



| COMPATIBLE HOUSINGS | MAX. BODY DIAMETER | LAYOUT | PUMP MOTOR |
|---|---|---|---|
| **3 types** | **Ø406 mm** | **3 options** | **Optional** |
| Bag · Cartridge · Basket | Upper limit for mobile use | Single · Parallel · Series | Pumpless: runs on line pressure |

## Technical specifications

| | |
|---|---|
| Compatible filter housing | Bag · Cartridge · Basket filter housing (stainless body) |
| Bag filter housing | Single-bag configuration recommended |
| Basket filter housing | Single-basket configuration recommended |
| Cartridge filter housing | Up to 19 cartridges (Ø406 mm body) |
| Max. body diameter | Ø406 mm recommended upper limit; fixed system above this |
| Carrier chassis | Heavy-duty stainless steel chassis · Industrial swivel castors with brakes |
| Layout | Single · Parallel (high flow, uninterrupted) · Series (staged filtration) |
| Multiple housings | Single bag and basket housings can be connected in parallel or in series |
| Pump (optional) | Centrifugal pump · Diaphragm or air-operated pump |
| Electrical | IP-rated electrical control panel (systems with pump) |
| Pumpless system | Runs on existing line pressure or a height difference |
| Piping connection | Flexible hose couplings · Camlock quick coupling · DIN / ANSI flange |
| Use | Tank-to-tank transfer · Recirculation · Drum and IBC emptying · Periodic line filtration |
| Custom builds | To sample or on a project basis |

## Capacity limits

| HOUSING TYPE | RECOMMENDED (MOBILE) |
|---|---|
| Bag filter housing | 1 bag |
| Basket filter housing | 1 basket |
| Cartridge filter housing | Up to 19 cartridges (Ø406 mm) |
| Body above Ø406 mm | Not suitable; fixed system |

A larger diameter raises the centre of gravity and mass: tipping risk. For more capacity, add single housings in parallel or series.

## Pumpless and pump configuration

| | PUMPLESS | WITH PUMP |
|---|---|---|
| Flow source | Line pressure or height | On-board pump |
| Independence | Depends on the line | Socket and hose are enough |
| Use | Temporary filtration, pressurised line | Transfer, recirculation, drum, IBC |
| Investment | Lower | Higher |

## Layout options

**Single**
Single point, limited volume; the most compact and manoeuvrable standard configuration.

**Parallel**
Flow is shared, capacity increases; one housing is isolated with valves to change elements without stopping.

**Series**
Fluid passes through the housings in turn; typically bag or basket → cartridge. The coarse stage protects the fine element.

## Mobile system or fixed system?

**Installation**
No fixed piping, welding or floor anchoring; runs on the day it arrives on site.

**Investment**
One mobile unit serves several points instead of one housing per line.

**Decision rule**
Continuous, high capacity at one point: fixed system. Periodic needs at several points: mobile.

## Use and maintenance

- Empty the housing before moving; a full housing is the main cause of tipping.
- Lock the wheel brakes in working position.
- Do not exceed the capacity limits (1 bag, 1 basket, 19 cartridges).
- Move slowly and carefully on ramps, sloping floors and cable crossings.
- Before opening the lid, confirm zero line pressure on the gauge.
- Do not leave the inlet and outlet hoses taut.

Values in this data sheet are typical and for information only. Product selection should be made with our engineers based on process fluid, temperature, pressure and flow conditions. Proses T.İ.M. reserves the right to change product specifications without prior notice.



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