



PRODUCT DESCRIPTION

Donaldson's Modular Skids are designed for point-of use filtration of process and ingredient liquids to meet the filtration requirements of the food and beverage industry. A Modular Skid consists of one or more filtration stages, ranging from pre-filtration to final filtration using LifeTec™ filter elements and/or bag-filters. The Skids come with pre-mounted valves and manometer and are available in different sizes, according to the number of filter elements required. A connection to a Clean In Place (CIP) system is easily possible.

The Donaldson Skid can be assembled in a modular way with the possibility to add further filtration steps whenever required. The modular design allows each system to be custom adapted to the needs of your production and to the product characteristics and thus supports flexible and efficient production processes.

The Plug & Play functionality of the Modular Skids enables fast and fluent integration into your manufacturing plant.

COMPONENTS AND DESIGN

The LifeTec™ filters are the heart of the Donaldson Modular Skid system, providing advanced, long-lasting membranes made in Germany. We use standard components from well-known and approved suppliers meeting hygienic design standards and providing reliability and performance.

MAIN FEATURES & BENEFITS

- Standard filter housings flexibly adaptable to your process needs
- Maintenance friendly and hygienic design
- Donaldson's premium LifeTec™ filter element line for sterile-, pre- and final filtrations

The easy integration supports a high degree of flexibility in process lines of the food and beverage industry and helps to save maintenance cost and production downtime.

The configuration with our premium LifeTec™ liquid filter elements supports best-in-class filtration technology to help protect your product and process integrity.

The modular skids follow hygienic design guidelines and are available in ASME and ISO pipe standards.

INDUSTRIES



- Bottled Water



- Dairy



- Breweries



- Wineries

APPLICATIONS

- Clarification and sterilization of all types of water
- Clarification and sterile filtration of fermented beverages (beer)
- Clarification and final filtration of beverages

Model	PF-MS 0130	PF-MS 0330	PF-MS 0530	PF-MS 0830	PF-MS 1230
Number of membranes / Cartridges per housing	1	3	5	8	12
Size of cartridges [inch]	10"-40"	10"-40"	10"-40"	10"-40"	10"-40"
Filter elements range, [µm]	LifeTec™ filter elements graded sterile, absolute and nominal 0.2, 0.45, 0.6, 0.8, 1, 2.4, 5, 10				
Performance with water for 30" Cartridge [hl/h]	20	60	100	160	240
Inlet / outlet size, DN 11851	25	40	50	50	65
Inlet / outlet size, tri-clamp ASME-BPS [inch]	1,5	1,5	2	2	2
Net weight [kg]	30	42	48	56	100
Vessel volume [l]	6,6	17,8	29	49,8	77

Model	L-BH-MS 1	L-BH-MS 1	L-BH-MS 2	L-BH-MS 2
Number of bags	1		1	
Bag size [inch]	7" x 16,5"		7" x 32"	
Bag filtration surface [m2]	0.25		0.5	
Bag filters material and pore range [µm]	Polypropylene 1 - 100 Polyester 1 - 200 Nylon 25 - 1200			
Performance with water	9-35			
Inlet / outlet size, tri-clamp ASME-BPS [inch]	1,5	2	1,5	2
Net weight [kg]	33		35	
Vessel volume [l]	23		38	

General Information

Max. operating temperature, [°C]	Minimum 5°C - Maximum 80°C
Max. operating pressure, [bar]	10 bar at temperature 25°C
Components	<ul style="list-style-type: none"> • Manometers and pneumatic stainless steel butterfly valves from INOXPA • Manometers from ASHCROFT • Optional sanitary centrifugal pump
Internal surface finish [Ra]	< 0,8 µm
Materials	<ul style="list-style-type: none"> • The housings and all contact with product surfaces available in Stainless Steel EN 1.4404 (AISI 316L) or EN 1.4301 (AISI 304) • Seals are made of Silicone and PTFE
Standard configuration	Filter housing, 2 drains, 4 valves, 2 manometers, set of heavy-duty wheels

Options

Variable number of filter stages	Integrity testing
Booster pump for perfect economical use of the membranes	