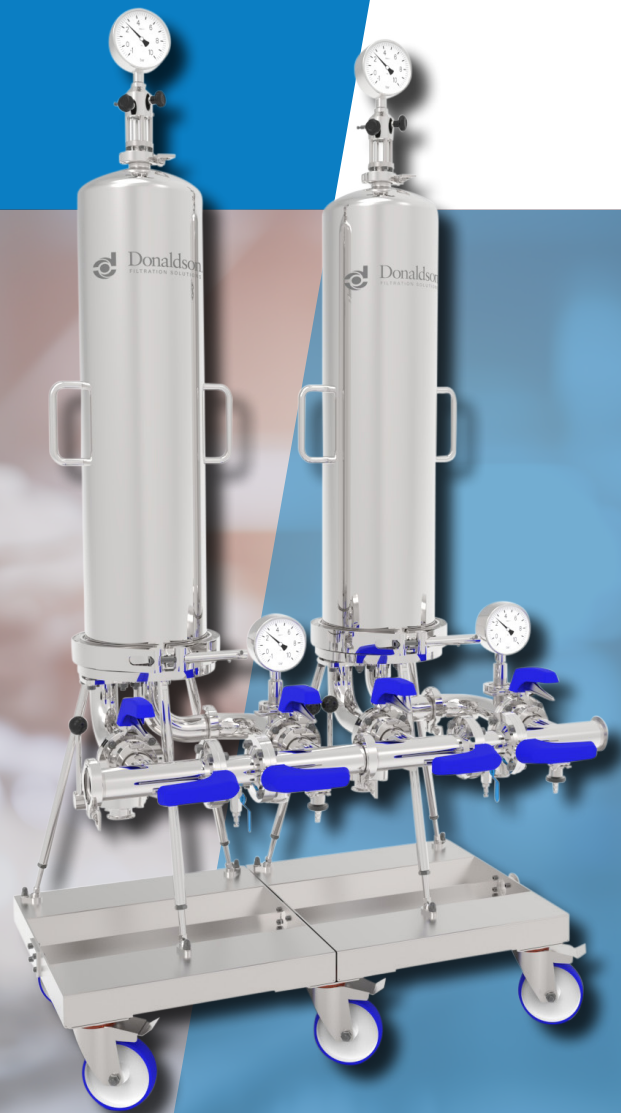


FILTRATION SYSTEMS

PROCESS FILTRATION





Application Expertise

Our Sector Specialists understand your process, integrity, and sustainability needs to provide dedicated filtration solutions.



Customized Solutions

In close partnership with our customers, we develop optimized filtration systems tailored to their product needs.



Leading Technology

We manufacture world-class filtration solutions featuring our premium LifeTec™ filters to support product and process integrity.

Our Filtration Systems are designed for point-of-use filtration of process and ingredient liquids, air and steam to meet the filtration requirements of the food and beverage industry. We work together with our customers to develop the most efficient filtration systems to meet their product requirements and help ensure easy integration in the production processes.

Donaldson Skid Solutions are offered in multiple sizes and can be tailored to meet individual production needs and product characteristics.

The configuration with our premium LifeTec™ filter elements offers best-in-class filtration technology to support product and process integrity.

LIQUID MODULAR SKIDS

MODULAR TO YOUR NEEDS

A Modular Skid consists of one or more filtration stages for manual operation, ranging from prefiltration to final filtration. The skids come with premounted valves and manometer and are available in different sizes, according to the number of filter elements in place. A connection to a Clean In Place (CIP) system is easily possible.

The Skid can be assembled in a modular way with the possibility to add further filtration steps whenever required. The Plug-and-Play functionality of the Liquid Modular Skid enables fast and fluent integration into your manufacturing plant. The easy integration supports a high flexibility in the process lines of the food and beverage industry and helps to save maintenance costs and production downtime.

Application Examples

- Bottled Water
- Wine/Spirit Clarification
- Wine Cold Stabilization
- Beer Clarification
- Beer Cold Stabilization



Model	PF-MS 0130	PF-MS 0330	PF-MS 0530	PF-MS 0830	PF-MS 1230
Stages of filtration	1 - 4				
Number of filter elements per housing	1	3	5	8	12
Size of filter element [inch]	30 in standard (10 in, 20 in and 40 in upon request)				
Inlet/outlet size, tri-clamp ASME-BPE	DN40 (1.5 in)	DN40 (1.5 in)	DN50 (2.0 in)	DN50 (2.0 in)	DN65 (2.5 in)
Operating temperature	Minimum -10 °C (14 °F) – Maximum 150 °C (302 °F)				
Max. operating pressure	10 bar at temperature 120 °C (248 °F)				
Filter vessel volume [l]	6.6	17.8	39	49.8	77
Performance with water [hl/h]	Up to 240				
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				

STERILE WATER SKIDS

VERSATILE AND TAILOR MADE

Our Sterile Water Skids range from completely manual to fully automated filtration systems available in different volumetrics and customizable options.

The skids are specifically designed around our premium LifeTec filter elements, offering best-in-class filtration for clarification, trap-filtration and cold sterile filtration of water, beer, and wine.

The Skid's design follows a tailor made approach while using standard housings on a skid that can be designed to your needs. Configurations with one to three pre-filtration steps are equally possible as parallel configurations for redundancy or continuous filtration.

Application Examples

- Bottled Water
- Wine/Spirit Clarification
- Wine Cold Stabilization
- Beer Clarification
- Beer Cold Stabilization
- Trap Filtration
- Process Water (all sectors)



Model	PF-FF-3 0130	PF-FF-3 0330	PF-FF-3 0530	PF-FF-3 0830	PF-MS 1230	PF-FF-3 1830	PF-FF-3 2430	PF-FF-3 3030
Stages of filtration	1 - 4							
Number of filter elements per housing	1	3	5	8	12	18	24	30
Size of filter element [inch]	30 in standard (10 in, 20 in and 40 in upon request)							
Inlet/outlet size, tri-clamp ASME-BPE	DN25 (1.0 in)	DN40 (1.5 in)	DN50 (2.0 in)	DN50 (2.0 in)	DN65 (2.5 in)	DN65 (2.5 in)	DN80 (3.0 in)	DN80 (3.0 in)
Operating temperature	Minimum 5 °C (41 °F) - Maximum 80 °C (176 °F)							
Max. operating pressure	10 bar at temperature 25 °C (77 °F)							
Performance with water [hl/h]	Up to 600							
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							

STEAM MANIFOLDS

ALL-IN-ONE STEAM SOLUTION

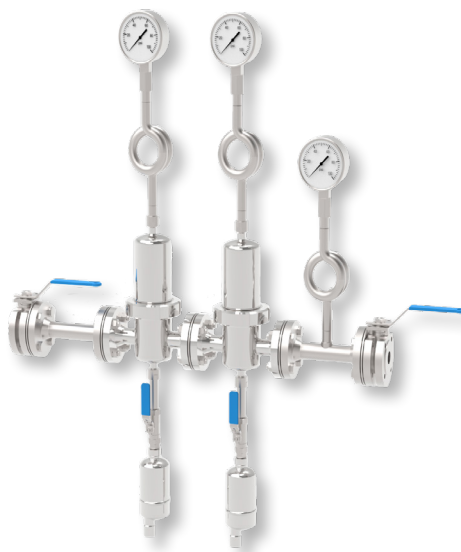
Donaldson Steam Manifolds for culinary and process steam provide a ready-to-install steam solution with housings, condensate traps, lockable isolation valves and upstream and downstream pressure gauges.

CULINARY STEAM MANIFOLDS

Donaldson Culinary Steam Manifolds are designed for direct food contact applications. The Culinary Steam products also include a sanitary check valve and sampling valve to incorporate all required piping components listed in the 3-A Accepted Practice for culinary steam. Culinary steam is free of entrained contaminants and suitable for use in direct contact with food products or product contact surfaces.

PROCESS STEAM MANIFOLDS

Process Steam Manifolds are designed for non-food contact applications. Improved steam quality supports increased process efficiency and longer service life of downstream heat transfer equipment.



Application Examples

- Sterilization in Place (SIP)
- Fermentation
- Pasteurization
- Rust Capture
- Bottled Water
- Dairy
- Breweries & Wineries

PRODUCT SPECIFICATIONS		
Parameter	Culinary Steam	Process Steam
Max. operating temperature	150 °C (302 °F)	
Max. operating pressure	10.3 bar g (150 psig)	
Max. differential pressure	Defer to filter element datasheets	
Components	Manometers, isolation ball valves, optional support stand, housing jackets	
Internal surface finish [Ra]	Ra < 64 µin before Final Filter Ra < 32 µin after Final Filter	Ra < 64 µin
Metal materials	All product contact surfaces made from EN 1.4404 (AISI 316L) or EN 1.4301 (AISI 304) series Stainless Steel	
Elastomer materials	EPDM	
Inlet/outlet connections	ANSI 150 RF inlet sanitary Tri-Clamp outlet	ANSI 150 RF inlet ANSI 150 RF outlet

STERILE AIR MANIFOLDS

YOUR COMPREHENSIVE PLUG-AND-PLAY STERILE AIR SOLUTION

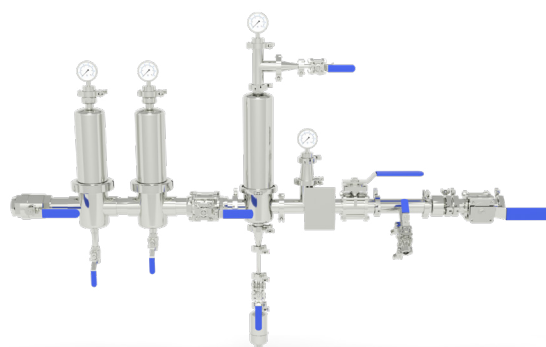
The Sterile Air Manifolds are designed for the filtration of industrial and culinary air to protect products and processes from particulate, organic, or microbial contamination. The sterile air steam is suitable for use in direct contact with food products or product contact surfaces.

Donaldson's Sterile Air Manifolds offer a fully integrated system that reduces complexity and contamination risks. The system provides a ready-to-install air solution with housings, condensate traps, isolation and throttling valves, upstream and downstream pressure gauges, a sanitary check valve, and a steam inlet leg for sterilization-in-place (SIP) of the manifold.

Application Examples

- Filtration and purification of compressed air and technical gases
- Any application where sterile compressed air is required
- Static or dynamic tank venting
- Aseptic storage or packaging
- Product push
- Cooling or conveying air

The Sterile Air Manifold is recommended to be paired with the Donaldson Steam Manifold for integrated steam sterilization. An optional SIP Connection can be used to connect between the Donaldson Sterile Air Manifold and Donaldson Steam Manifold for sterilization-in-place of the sterile element within the final filter.



PRODUCT SPECIFICATIONS

Max. operating temperature	150 °C (302 °F)
Max. operating pressure	10.3 bar g (150 psig)
Max. differential pressure	Defer to filter element datasheets
Components	Donaldson housings, steam trap, manometers from ASHCROFT, Isolation and throttling ball valves, optional SIP connection, optional support stand
Internal surface finish [Ra]	Ra < 30 µin after final filter
Metal materials	All product contact surfaces made of Stainless Steel AISI 316 or AISI 304
Elastomer materials	EPDM or PTFE
Inlet/outlet connections	NPT (line size 3/4 in, 1 in, 2 in, 3 in) or ANSI 150 RF (line size 4 in) inlet Tri-Clamp Outlet

HIGH FLOW SKIDS

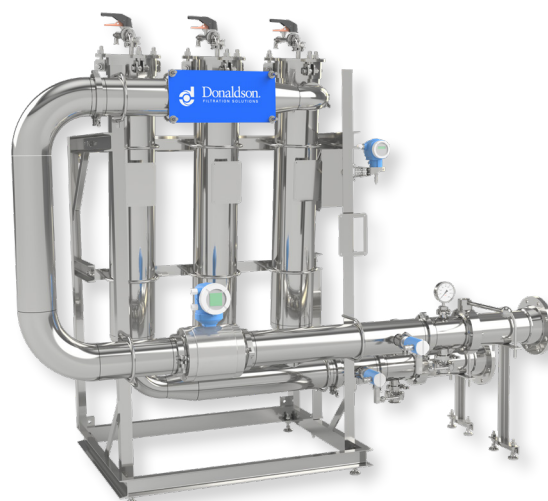
MODULAR FILTRATION FOR HIGH-PERFORMANCE PROCESS APPLICATIONS

Donaldson's High Flow Skid is a modular, plug-and-play filtration system engineered to deliver clean water with advanced particle reduction at scale.

The filters are available in a broad range of configurations for nearly every application and technological trend in the processed food and beverage industry, including bioburden reduction of ingredient water, beer, wine and bottled water.

Designed for high-volume applications, it supports flow rates up to 200 m³/h and integrates seamlessly into existing infrastructure. Built for scalability and hygiene, it helps protect downstream equipment, reduce maintenance needs, and support compliance with water quality standards.

For maximum installation versatility, the skid can be mounted in both horizontal and vertical alignments.



Application Examples

- Pre-reverse osmosis water treatment
- Bottled water production
- Process water filtration
- Cooling water systems
- Sand and dirt removal

PRODUCT SPECIFICATIONS

Max. pressure water	10 bar g (145 psi g)
Max. pressure steam	1 bar g @ 121 °C (14 psi g @ +250 °F)
Shortterm temperature range	+121 °C (+250 °F) max. 30 min
Process temperature range	-10 °C / +95 °C (+14 °F / +203 °F)
Ambient temperature range	-10 °C / +60 °C (+14 °F / +140 °F)
Material	Housing and piping in EN 1.4404 (AISI 316), seals made of EPDM and silicone
Cleaning	CIP, SIP on request

GLOBAL KNOWLEDGE - LOCAL TOUCH

Donaldson supports food & beverage producers with Filtration Systems solutions tailored to the unique demands of the industry. Whether you're exploring ways to strengthen your process, meet regulatory expectations, or reduce downtime, our team is ready to collaborate.

Get in touch with us and learn more about how our technologies and services can support your operations.

[CONTACT US](#)



Stay informed about filtration innovations, application insights and food and beverage industry expertise by following the Donaldson Food & Beverage LinkedIn Showcase Page.



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