

Toll Free: 1-800-253-7140 Phone: 631-563-8300 Fax: 631-563-8378 e-mail: sales@steri.com web: <u>www.steri.com</u>



FUNDA Filter / Applications

FUNDA-mentals from Steri: A Total Solution. Easy to buy — Easy to use...

The Exact Solution

With a full range of options and knowledgeable decision support from process experts, our FUNDA filters can be precisely configured to meet specifications. What's more, you'll benefit from the flow of design enhancements Steri has been bringing on-line each year.

FUNDA filters are built in the United States by Steri Technologies, the world's most experienced FUNDA filter manufactures. These filters incorporate important functional enhancements designed by Steri's engineers, each with a quarter century of hands-on FUNDA experience. With more than 6,000 systems in place worldwide, and hundreds in North America, this technology has an extensive track record of reliable performance across a broad range of applications:

- Activated carbon removal
- Antibiotics separation and other sterile environment processes
- Food industry applications requiring FDA approval, such as edible oil, fatty acids, beer, sugar, cheese and soft drinks
- Fuel and oil additive filtration
- Gold precipitate recovery
- Hazardous materials filtration, including radioactive waste
- Machine oil regeneration
- Photo-chemicals filtration
- Polyol, plasticizer and antioxidant filtration
- Precious metal and other catalyst recovery
- Resin filtration

Superior design, superlative performance and aggressive support. Easy to buy. Easy to use...

Steri will earn your business with care and continuity you can count on for the life of your filtration processes.



7m² FUNDA Filter with CIP Manifold

Safe, Efficient & Reliable

FUNDA filters are engineered for safe, efficient and reliable operations, even in the most demanding applications involving hazardous ma-

terials or sterile environments.

A Safe Solution

A contained, fully automated system protects people and the environment. Spent cake containing hazardous substances can be efficiently and safely collected for disposal.

An Efficient Solution

The FUNDA filter will not only help you reduce labor costs, but also virtually eliminate product losses with total heel recovery. Its horizontal, dimpled filter plates assure complete drainage and even cake deposition. They are self-supporting, eliminating the need for outer supports that interfere with cake discharge.

A Reliable System

Designed to minimize such problems as excessive bearing wear and seal failures, and built by Steri to the highest quality standards, FUNDA filters can meet or exceed rigorous demands of operation with proven reliability in thousands of applications.



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FUNDA Filter

Centrifugal discharge, pressure leaf filters. Compact, enclosed, self-cleaning, multi-plate filters...



FUNDA[®] Type "A" & "R" Pressure Leaf Filters

FUNDA-mentals from Steri: A total solution with superior design, superlative performance and professional support. Easy to buy. Easy to use..

FUNDA filters are compact, enclosed, self-cleaning, multi-plate filters available with integrated heating and drying for manufacturing, pilot and laboratory applications.

With more than 6,000 systems in place worldwide, and hundreds in North America, this "Steri" technology has an extensive track record of reliable performances across a broad range of applications. With a full range of options and knowledgeable decision support from process experts, our FUNDA filters can be precisely configured to meet your specifications.

Manufactured in the United States of America by Steri Technologies, FUNDA filters combine superior design with a program of total support that makes filtration easy from every perspective.











7m² FUNDA / North Carolina

12m² FUNDA's / Australia



25m² FUNDA's / Saudi Arabia



16m² FUNDA Filter Nest

84m² FUNDA / Louisiana



15m² FUNDA Filtration System



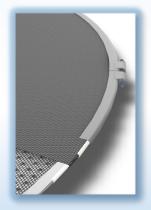
Spray Bar for Plate Washing



4" [100mm] Thick Filter Cake



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FUNDA Filter / Design & Options

Users appreciate the compact design for performance excellence and simple, safe operation...

Design & Options

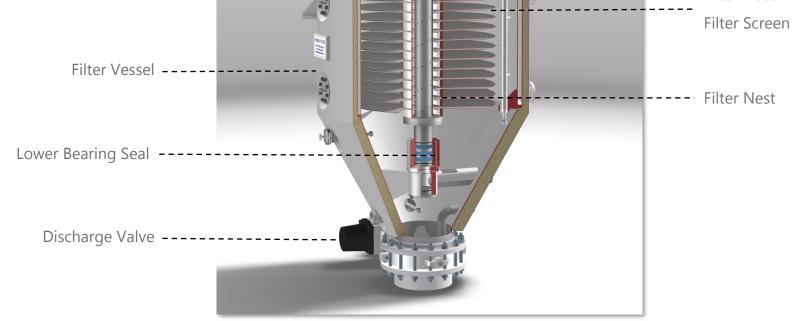
The FUNDA is a centrifugal discharge, pressure leaf filter. They are compact, enclosed, self-cleaning, multi-plate filters available with integrated heating and drying for manufacturing, pilot and laboratory applications.

The top mounted drive assembly can be easily removed from the vessel. Options include hydraulic drive, electric drive with variable speed drive system.

The seal and bearing assembly is designed to eliminate causes of failure, the seal rides on a bearing sleeve instead of the shaft, preventing shaft wear and potential for costly repair. Seal options include lip seals, stuffing box (with or without flushing), mechanical seal or hydraulic bellows seal.

Dished filter plates with spacer rings and sealing gaskets are mounted on a hollow shaft, and secured by a tightening device. The filter media is held in place by a clamp ring and can be quickly and easily changed. Various types of media are available.

Anatomy of a FUNDA Filter





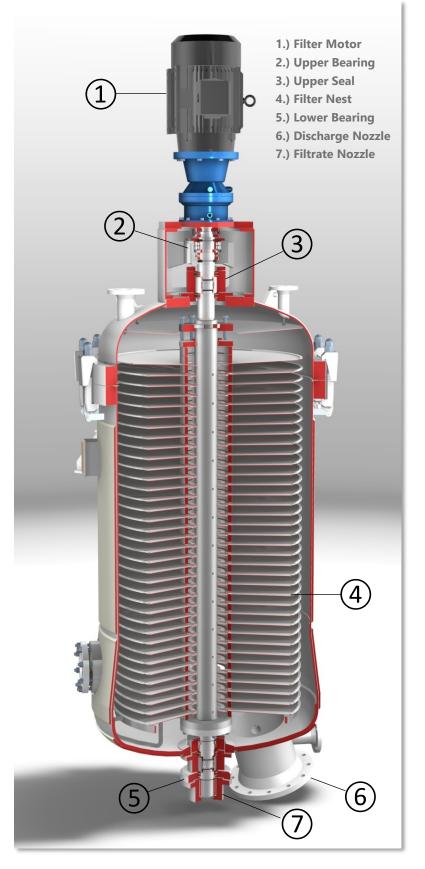
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FUNDA Filter / Type A

For wet cake discharge...

The FUNDA filter operates one batch at a time to remove solids from liquids. When the batch is complete the filter nest briefly spins at high speed to sling off the cake that was collected on the filter plates. The name FUNDA is the Latin word for: to sling. The **Type A** filter is designed for wet cake discharge and consists of four main parts; the vessel, the head, the filter nest and the filter drive.



Filter Vessel

The largest part of the FUNDA filter is the vessel. It is cylindrical in form with a dished bottom. The head, which is removable, closes the top of the vessel and supports the filter nest and the drive unit. The filter nest is an assembly of horizontal filter plates stacked on a vertical, rotatable hollow shaft. There are upper and lower bearings and seals for the filter shaft. On the Type A FUNDA filter the lower bearing and seal can be serviced without removing the filter nest.

Filter Nest & Filter Motor

Each filter plate assembly consists of a filter plate, a support screen, a filter screen and an outer clamp ring. There is also a passage ring and an inner clamp ring. The inner and outer clamp rings hold the filter screen in place while the support screen and the passage ring are trapped between the filter screen and the filter plate. The slightly dished form of the filter plate assures complete drainage of the filtered liquid. The filter drive can be either electric or hydraulic. The hydraulic drive is directly coupled to the filter shaft while the electric drive employs a reducer. When the electric drive motor is mounted vertically above the filter shaft, a gear reducer is installed. The electric drive option uses a programmable VFD speed controller.

Filtration

During operation the unfiltered liquid is pumped into the vessel and flows around the stationary filter nest. When the vessel is full, the pressure in the vessel begins to rise. This pressure forces the unfiltered liquid through the filter screens. The solids are left on the filter plates and the filtered liquid flows into the hollow shaft to drain out through the filtrate outlet which exits through the bottom of the vessel. The filter nest remains stationary during filtration.

Cake Discharge

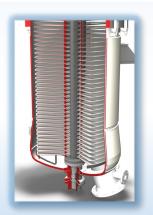
Once the filter is empty, the filter nest briefly spins at high speed to sling off the cake. The cake falls to the bottom of the vessel into a receptacle. The Type A FUNDA filter features a wiper blade to aid the removal of wet cake. The wiper blade is attached to the bottom of the filter nest and pushes the cake to the outlet.

Heel Filtration

Once filtration is complete some of the unfiltered liquid remains in the FUNDA filter below the lowest filter plate. This is the heel. In order to capture it, the heel can be drained from the filter vessel and pumped to a nozzle on the top of the FUNDA filter. The unfiltered liquid is directed by a distribution plate, which is mounted inside the head of the filter, to gently cascade over the filter plates until all of the heel has been filtered. Due to the dished shape of the vessel bottom of the Type A FUNDA filter, less heel is left at the end of each batch than that which is left in the cone of a Type R FUNDA filter.



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FUNDA Filter / Type A Sizes

Various available options for meeting stringent applications are assured...

Comprehensive Options for Slurry Cake Discharge

FUNDA filters by Steri are available in two basic configurations. Type "R" for dry cake discharge or **Type "A" for slurry cake discharge**. For added versatility, type "R" filters can be configured for both dry and slurry discharge.

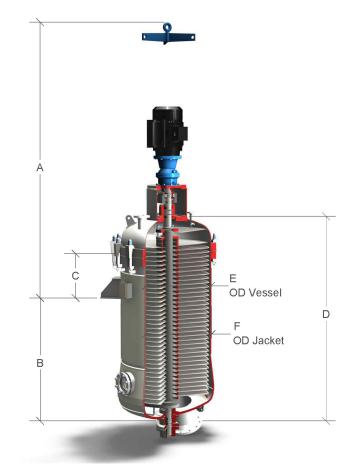




A-50m² Filter Nest

A-50m² FUNDA Filter

Steri offers a complete range of off-the-shelf options plus the engineering applications know-how to configure your filtration system to your specifications. With standard components proven effective many times over, it's a sure way to bring a new system on-line quickly and without problems.



Standard connections and dimensions for FUNDA filter type "A"

Filter Size	Product Inlet	Filtrate Outlet	Heel Volume Outlet	Over- flow Nozzle	Cake Outlet	Inspec- tion Port	No of Filter Plates	Plate Diame- ter	Spacing* Of Filter Plate	A	В	С	D	E	F	Filter Weight Empty approx.	Filling Volume approx.
m²	inches	inches	inches	inches	inches	inches	Qty	mm	mm	mm	mm	mm	mm	mm	mm	kg	liters
1m ²	1.5	1.5	1.5	1.5	3	4	9	400	30	1540	235	250	730	500	540	700	120
2m ²	1.5	1.5	1.5	1.5	3	4	18	400	30	1870	555	250	1050	500	540	950	170
5m ²	2	2	2	2	4	4	20	600	30	2090	670	250	1205	700	750	1300	360
7m ²	2	2	2	2	4	4	16	800	30	2045	485	300	1070	900	950	1400	520
10m ²	3	3	3	3	6	4	22	800	30	2265	660	300	1290	900	950	1800	630
15m ²	3	3	3	3	6	4	33	800	30	2695	1090	300	1720	900	950	2000	860
20m ²	3	3	3	3	8	4	28	1000	30	2640	780	400	1540	1100	1150	2300	1100
25 m ²	4	4	4	4	8	4	35	1000	30	2895	1040	400	1800	1100	1150	2500	1300
30m ²	4	4	4	4	10	4	43	1000	30	3195	1330	400	2090	1100	1150	3000	1550
35m ²	4	4	4	4	10	4	50	1000	30	3555	1490	500	2355	1100	1150	3300	1700
40m ²	6	6	6	6	12	4	57	1000	30	3810	1745	500	2605	1100	1150	4000	1900
45m ²	6	6	6	6	12	4	63	1000	30	4030	1875	500	2825	1200	1250	5000	2550
50m ²	6	6	6	6	12	4	45	1250	30	4375	1625	500	2625	1400	1450	6500	3100
60m ²	6	6	6	6	12	4	54	1250	30	4710	1960	500	2960	1400	1450	8500	3500

* as per individual requirements.



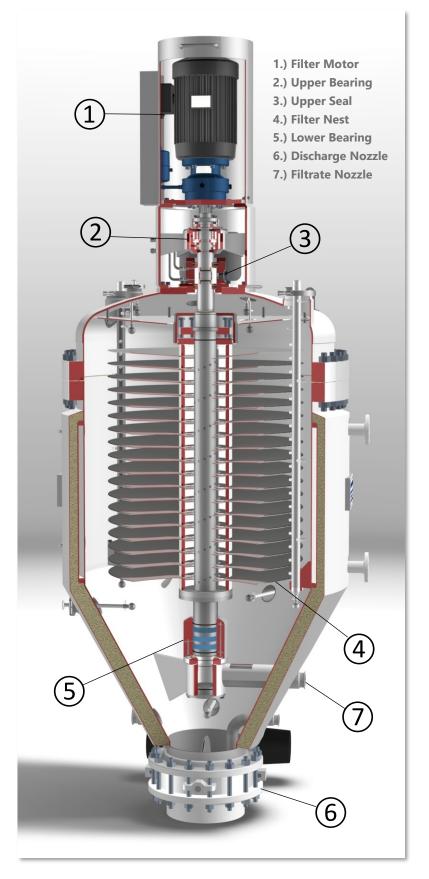
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FUNDA Filter / Type R

For dry cake discharge...

The FUNDA filter operates one batch at a time to remove solids from liquids. When the batch is complete the filter nest briefly spins at high speed to sling off the cake that was collected on the filter plates. The name FUNDA is the Latin word for: to sling. The **Type R** filter is designed for dry cake discharge and consists of four main parts; the vessel, the head, the filter nest and the Filter Drive.



Filter Vessel

The largest part of the FUNDA filter is the vessel. It is cylindrical in form with a conical bottom. The head, which is removable, closes the top of the vessel and supports the filter nest and the drive unit. There are upper and lower bearings and seals for the filter shaft. The filter nest is an assembly of horizontal filter plates stacked on a vertical, rotatable hollow shaft. There are upper and lower bearings and seals for the filter shaft seals for the filter shaft. On the Type R FUNDA filter the lower bearing and seal can not be serviced without removing the filter nest.

Filter Nest & Filter Motor

Each filter plate assembly consists of a filter plate, a support screen, a filter screen and an outer clamp ring. There is also a passage ring and an inner clamp ring. The inner and outer clamp rings hold the filter screen in place while the support screen and the passage ring are trapped between the filter screen and the filter plate. The slightly dished form of the filter plate assures complete drainage of the filtered liquid. The filter drive can be either electric or hydraulic. The hydraulic drive is directly coupled to the filter shaft while the electric drive employs a reducer. When the electric drive motor is mounted vertically above the filter shaft, a gear reducer is installed. The electric drive option uses a programmable VFD speed controller.

Filtration

During operation the unfiltered liquid is pumped into the vessel and flows around the stationary filter nest. When the vessel is full, the pressure in the vessel begins to rise. This pressure forces the unfiltered liquid through the filter screens. The solids are left on the filter plates and the filtered liquid flows into the hollow shaft to drain out through the filtrate outlet which exits through the side of the cone at the bottom of the vessel. The filter nest remains stationary during filtration.

Cake Discharge

Once the filter is empty, the cake is dried. The filter nest briefly spins at high speed to sling off the cake. The cake falls to the bottom of the cone where a valve opens to allow the cake to drop into a receptacle.

Heel Filtration

Once filtration is complete some of the unfiltered liquid remains in the FUNDA filter below the lowest filter plate. This is the heel. In order to capture it, the heel can be drained from the filter vessel and pumped to a nozzle on the top of the FUNDA filter. The unfiltered liquid is directed by a distribution plate, which is mounted inside the head of the filter, to gently cascade over the filter plates until all of the heel has been filtered. Due to the conical shape the vessel bottom of the Type R FUNDA filter, more heel is left at the end of each batch than that which is left in the bottom of a Type A FUNDA filter.



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FUNDA Filter / Type R Sizes

Various available options for meeting stringent applications are assured...

Comprehensive Options for Dry Cake Discharge

FUNDA filters by Steri are available in two basic configurations. **Type "R" for dry cake discharge** or Type "A" for slurry cake discharge. For added versatility, type "R" filters can be configured for both dry and slurry discharge.

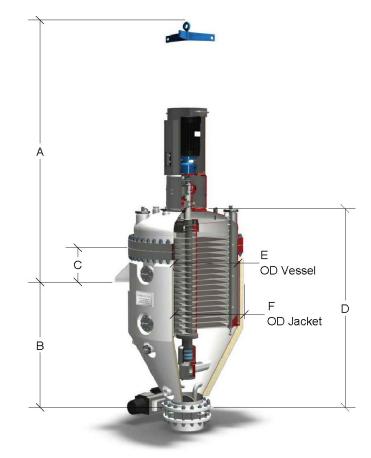




R-20m² Filter Nest

R-20m² FUNDA Filter

Steri offers a complete range of off-the-shelf options plus the engineering applications know-how to configure your filtration system to your specifications. With standard components proven effective many times over, it's a sure way to bring a new system on-line quickly and without problems.



Standard connections and dimensions for FUNDA filter type "R"

Filter Size	Product Inlet	Filtrate Outlet	Heel Volume Outlet	Over- flow Nozzle	Cake Outlet	Inspec- tion Port	No of Filter Plates	Plate Diame- ter	Spacing* Of Filter Plate	A	В	С	D	E	F	Filter Weight Empty approx.	Filling Volume approx.
m²	inches	inches	inches	inches	inches	inches	Qty	mm	mm	mm	mm	mm	mm	mm	mm	kg	liters
1m ²	1.5	1.5	1.5	1.5	10	4	9	400	30	1646	731	250	1246	500	540	900	190
2m ²	1.5	1.5	1.5	1.5	10	4	18	400	30	1970	1055	250	1570	500	540	1100	250
5m ²	2	2	1.5	2	10	4	20	600	30	2220	1065	300	1680	700	750	1500	470
7m ²	2	2	1.5	2	10	4	16	800	30	2240	975	400	1740	900	950	2000	730
10m ²	3	3	2	3	12	4	22	800	30	2474	1209	400	1974	900	950	2400	880
15m ²	3	4	3	3	16	4	33	800	30	2900	1635	400	2400	1000	1050	3000	1410
20m ²	3	4	3	3	16	4	28	1000	30	2820	1420	500	2320	1150	1200	3100	1670
25m ²	4	4	3	4	16	4	35	1000	30	3080	1680	500	2580	1150	1200	3500	1890
30m ²	4	4	3	4	16	4	43	1000	30	3380	1972	500	2872	1150	1200	4000	2100
35m ²	4	4	3	4	16	4	50	1000	30	3740	2130	600	3130	1150	1200	5100	2350
40m ²	6	6	3	4	20	4	57	1000	30	4000	2385	600	3385	1150	1200	5900	2650
45m ²	6	6	3	4	20	4	63	1000	30	4210	2600	600	3600	1150	1200	6800	2830
50m ²	6	6	3	4	20	4	45	1250	30	4600	2490	600	3590	1400	1450	8000	4000
60m ²	6	6	3	4	20	4	54	1250	30	5140	2635	800	3930	1400	1450	10000	4400

* as per individual requirements.



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FUNDA Filter / Operation

Engineered for efficient, reliable & safe operation. Even in the most demanding applications...

Theory of Operation



The vessel is filled with unfiltered product or pre-coat, and circulated through the overflow nozzle for an even suspension.

Filtration

The suspension is circulated through the filter elements to produce a porous pre-coat layer.

Filtration

The filtrate passes through the building filter cake, filter screen and spacer ring area to the hollow shaft and filtrate outlet.

Once filtration is complete, the vessel is full of unfiltered liquid. This liquid can be also filtered by applying inert gas to the top of the filter vessel, thus forcing the liquid through the filter plates until all of the solids is deposited on the plates. Some liquid is left below the bottom most plate. This is the heel.

tration

After filtration and/or washing, the heel liquid can be recycled by pump into the vessel head from the bottom outlet. While the liquid is cascading onto the plates, inert gas is also applied to create the necessary filtration pressure until the entire heel has been filtered.

Product recovery is maximized by this process, which is faster and more efficient than systems utilizing scavenger plates.

The wash liquid follows the same route as in filtration. Cascade washing using the heel volume filtration method reduces the wash liquid volume.

Heating / Drying

The cake can be heated and dried in the vessel using hot gases, such as steam, air or nitrogen. As a more efficient alternative to a steady flow of nitrogen in drying, the vessel can be repeatedly pressurized and quickly evacuated, dramatically reducing nitrogen usage.

Slurry Cake Discharge

The wet cake is flung from the rotating plates, falls to the bottom, and exits through the discharge nozzle, aided by a suitable solvent. Gas pressure may be used to assure the flow of viscous mixtures.

Dry Cake Discharge As the filter nest ro-

tates, the dry friable cake is flung from the plates, falls freely to the bottom, and exits through the bottom discharge opening.

Completely Automated Filtration

Completely automatic filtration systems eliminate manual filter cleaning. FUNDA filtration provide completely automatic treatment in solid-liquid separation processes.

Horizontal filter discs ensure even cake build-up. The entire system can be automated and there is a unique device to filter the entire heel. The cake can be washed or extracted with solvent while still on the filter plates without disturbing the cake.



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FUNDA Rental Systems

Simple to install in virtually any environment. Glowing reports in its ease of operation...

Think Steri for Rentals

Use one of our filters on a rental basis to experience first hand, filtration made easy. You'll see how simple it is to install a Steri filter in virtually any environment. You'll notice and appreciate its compact design. You'll get glowing reports in its ease of operation and purity of output. Steri maintains an inventory of FUNDA filter rentals. FUNDA filters are available in stainless steel in sizes up to 5.0m². The smaller FUNDA filters are skid mounted for fast, easy installation. Put them to use for laboratory work, pilot processes and short term production runs. A rental unit can be cost-effective and up and running in just a few days.

Think Steri for Lab Testing

Liquid-Solids Separation and Filtration Testing in Our Lab

Steri now offers testing of your product in our laboratory. For decades now, Steri Technologies has been a leading manufacturer of FUNDA pressure leaf filters.

Steri has several small scale filters in our lab that enable us to test various filter media and filter-aids to determine the most efficient filtration process for your product.



Think Steri for Lab Filters

In addition to portable pilot and production models, Steri offers a convenient 0.01m² filter to permit you to quickly test filtering feasibility and filter media. We would be delighted to bring it to your plant for a consultation, or provide it on a rental basis

Try and Buy

All of our rental filters are automatically included in our TRY-and-BUY program. The Steri "Try and Buy" program provides credit for a portion of the rental fee toward the purchase of a full-scale filtration system. And when you compare value and price - made even more cost effective by the special terms available through Try and Buy – you'll select Steri for FUNDA filtration made easy.

Liquid-Solids Separation and Filtration Testing in your Facility Using our Rental Units

Steri has several small-scale filters available as rental units. Scaled-down, self-contained, skid-mounted versions of our FUNDA line of pressure leaf filters can be rented for inplant pilot runs or testing. These small-scale rental filters enable you to test various filter media and filter-aids to determine the most efficient filtration process for your product.











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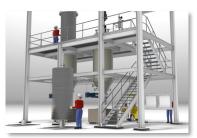
Turn-Key Systems

Steri plans, designs and manufactures complete automated filtration installations...

Turn-Key Filtration Systems

Steri Technologies has the engineering expertise to design and fabricate completely self-contained, fully automated, turn-key filtration and process systems.

For decades now, the FUNDA filter has been used all over the world to separate solid matter from liquids. Steri plans, designs and manufactures FUNDA filters as separate units, as filter skids and as complete filtration installations - complete with process engineering and corresponding process guarantees.



R-80m² FUNDA Filtration Unit



R-20m² FUNDA Filtration Skid

Sometimes a stand-alone filter does not meet the process requirements, on-site integration capabilities, or scheduling constraints. Sometimes only a complete turn-key filtration system will meet the challenge.

Steri Technologies has the experience of designing filtration systems to exacting customer specifications. Our engineers review the overall process sequence to recommend the most effective means of adding a filtration step.



A-15m² FUNDA Skid with Pre-Coat, Body Feed Tank and Bag Loading Station

Custom Process Systems

Steri designs and builds custom process systems that combine multiple process steps into one skid mounted assembly. Any process steps may be included such as wet & dry material injection, mixing, weighing, filtration, heating, drying and any others that might be needed. We've manufactured various types of stand-alone skidded systems for uses such as industrial process heaters, chilled water filtration, water desalinization, laboratory preparation and more...



The resulting filtration or process system seamlessly integrates with your overall infrastructure. Our modular systems feature factory level manufacturing and quality control. All custom skids are fully tested before leaving our facility.







HVAC Side Stream Filtration

Brackish Water Desalination Skid



Cutting / Cooling Oil Mixing Plant



Laboratory Prep Skids



Heating / Cooling Skids



Brackish Water Desalination Plant



Cutting / Cooling Oil Mixing Plant

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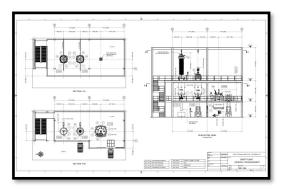
In-House Engineering

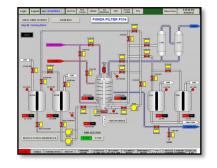
Experienced engineering team that provides complete design support from concept to installation...

Filter Design, Integration & Process Design Support

Filter Design

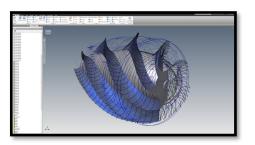
Steri has an experienced engineering team that provides complete design support from concept to installation. Starting right from the proposal stage, we create a clear picture of your filtration system and its integration into your facility using 3D CAD software. As the design evolves the 3D model is continuously updated. Approval drawings and bills of materials are ready for quick turn-around minimizing delays in ordering material. At completion of the project the 3D model is fully updated to reflect the as-built configuration and included in the complete documentation package.





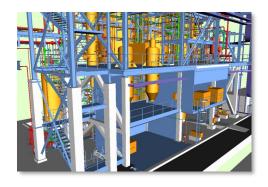
Process Design

The key to producing a quality product using Steri Filters is process integration. Steri engineering works with you early-on to create a complete filtration process sequence. Part of the sequence development includes an evaluation of your overall system that results in recommended upgrades to your system. Giving you the best performance possible from your new Steri filter. The sequence, which is presented in HMI screenshots, includes all the steps required such as filling, pre-coat, filtration, washing, re-slurrying, drying, discharge and clean-in-place.



CAD-CAM Machining

Our engineers design every component in 3D right from the start. The software handles complex shapes and standard flanges equally. Once the design is complete the files are sent directly to our CAM software for error free CNC machining. All performed in-house to ensure complete quality control.



Integration

Process sequencing maps out the overall design of the filter and how it will fit into your process. Steri works with your engineering team to design an integration plan. The plan identifies any upgrades or modifications that may be required to your existing infrastructure.

Process Design Support

Steri offers process revitalization support for legacy installations. If you have an older Steri filter but do not feel that you are getting the best possible performance we can help. We have a knowledge base of thousands of systems installed world-wide.

Over the course of time, system sequences tend to grow away from the original design intent. A thorough system analysis by one of our engineers can net you performance improvements and cost reductions. As a result of our analysis we then recommend instrumentation upgrades and safety improvements. The instrumentation also allows the process to be automated, reducing down-time. The vent system can be evaluated along with the drying technique. By simplifying the vent routing and incorporating the latest drying techniques the overall cake drying time could be reduced. Steri can review the piping plan uncovering exceeding long piping runs, eliminating contamination between batches of different products. Once all of the these recommendations have been implemented, Steri then establishes baseline operating points including characterized pressure increases as filter loading increased. The data can then be used in conjunction with the instrumentation to optimize the automation program. Sequence review by Steri and the resulting process changes along with automation will increase safety, decrease waste and save money.



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In-House Manufacturing

Our modern manufacturing facility is equipped with the latest equipment...

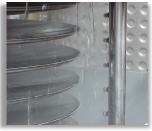
Machining, ASME Fabrication & Testing

Steri Technologies offers machining and ASME pressure vessel fabrication services to a variety of industries. Our modern manufacturing facility is equipped with the latest manufacturing equipment including CNC milling, lathe, Robotic welding and water jet machines.

We are an ASME and National Board certified company. Our employees take pride in their company and meet your requests with a "can do" attitude. We offer a variety of services:



CNC Lathe



CIP Testing



Mill Lathe

Waterjet Cutting



Robotic Welding



ASME Fabrication



Skid Fabrication



Mechanical Polishing



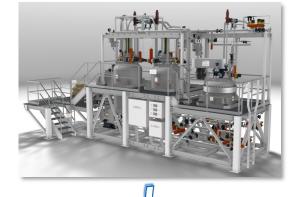
System Testing



Laboratory Testing

From Vision to Reality

3D Model Developed with Client



3D Model Developed with Client



3D Model Developed with Client









Final Fabricated Skid





Final Fabricated Skid



Final Fabricated Skid



Toll Free: 1-800-253-7140 Phone: 631-563-8300 Fax: 631-563-8378

e-mail: sales@steri.com web: www.steri.com



Start-Up & Support

Your Steri system is serviced by the people who manufacture it...

Commissioning, Start-Up & Site Training

Your filter system can be up and running in just a few hours. Steri provides the level of service that meets the needs of your project. We offer complete system design and installation services to seamlessly integrate our equipment into your process facility. In the design phase Steri will provide all the necessary recommendations for pipe routing and valve placement so that you get the best possible performance from our filter systems. Steri can provide experienced on-site installation support, coordinating the trades such as crane operations, structural steel fabrication, concrete installation, piping and wiring. This complete level of support applies to all Steri products from complete skidded filtration systems to stand-alone filters.



Installation Supervision



FUNDA Filter Installation





Filter Commissioning

On-Site Training

Steri's service does not end with installation. Our trained technicians will be present during start-up and commissioning to maximize the performance of the filter within your overall process. Once the filter has been commissioned Steri will provide complete on-site training to all operators so that your Steri filter continues to provide maximum service for years to come.



Technical Support

Steri service technicians are available whenever you need. They have been fully trained on confined space protocols, hold the widely recognized Transportation Worker Identification Credential (TWIC[®]), and can be dispatched to anywhere in the world.

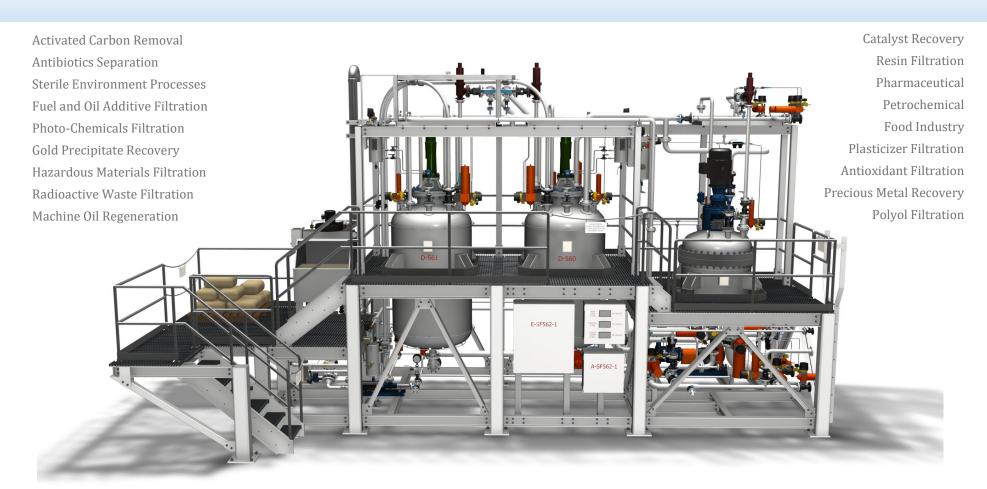




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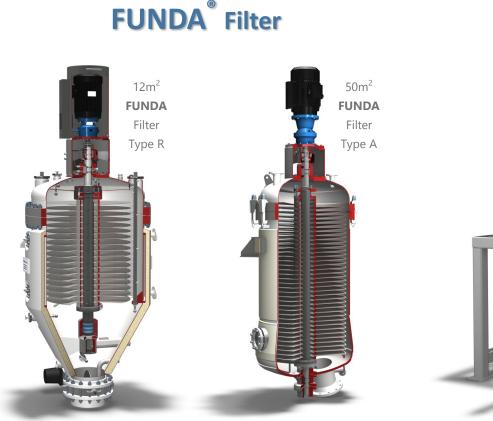
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Total Filtration Solution



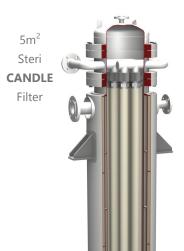
Steri has the Right solution for your Filtration application

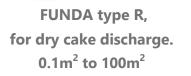
For decades now, Steri Technologies has been delivering reliable filtration equipment to every continent around the world. Superior designs of **FUNDA** pressure leaf filters , **ZWAG** Nutsche filters , Steri **CANDLE** filters technologies and many more...











FUNDA type A, for slurry cake discharge. 0.1m² to 100m²

FUNDA[®] filters are compact, enclosed, self-cleaning, multi-plate filters available with integrated heating and drying for manufacturing, pilot and laboratory applications. With more than 6,000 systems in place worldwide, and hundreds in North America, this technology has an extensive track record of reliable performances across a broad range of applications.

ZWAG, superior design, superlative performance and professional support. 0.1m² to 12m²

ZWAG[®] is a family of totally enclosed, single-plate Nutsche filters for pressure filtration and vacuum drying. With integral heating and drying, multi-functional ZWAG filters are compact and versatile for manufacturing, pilot and laboratory applications.



Steri CANDLE filters, low solid filtration. 0.1m² to 60m²

Steri **CANDLE** filters are enclosed, candle shaped filter elements arranged vertically inside a pressure vessel. The filter cake is formed on the outside of the candle.