ABOUT THE PROCESS DIVISION

The Process Division is a part of Twin Filter BV. Twin Filter BV is an originally Dutch company founded in 1985. The Process Division is providing solid/liquid separations and gas filtration solutions and services for a variety of industries worldwide.

The Process Division brings together the knowledge of filter media, filtration technology and outstanding skills in mechanical engineering, making hardware and software successfully work together.

Customers can count on professional advice and support from all-rounders in filtration technology, offering effective, efficient and durable solutions that will prove themselves in the long term.

APPLICATIONS

- Liquid Sulphur
- Sulphuric Acid
- Mining
- Titan Oxide
- Caustic / Brine
- Catalyst Recovery
- Gas Sweetening
- Activated Carbon
- Food and Beverage
- Vegetable Oils
- Waste Water Treatment
- Pharmaceutical industry
- Petrochemical industry

WHY FILTRATION?

Continuity demands a forward-looking approach, anticipating technological developments, new demands and new possibilities. New environmental regulations, improving productivity and recovering valuable resources are challenges for the Research and Development department.

In all sectors, the requirements are becoming increasingly stringent. Our quality system keeps up with these developments. We have one common goal: to find solutions that will improve the quality of your product and improve your production process; thereby increasing the profits of your company.

MATERIAL OF CONSTRUCTION

Vessels and all wettable parts are available in carbon steel and several grades of stainless steel. Gaskets can be supplied in rubber, PFA, PVDF or other linings. Filter leaves are primarily manufactured in stainless steel. Other materials upon request.

OPERATION CONDITIONS

Standard tank construction accommodates 6 bar working pressure at 165°C. Higher pressures and temperatures are available on request. Allowable differential pressure across the filter elements is 3.5 bar.

FITTINGS

Standard flanged connections according DIN or ANSI. Other desired specifications upon request.

PRESSURE VESSEL CODE AND INSPECTIONS


OPTIONS

- Heating or cooling jackets
- Thermplates
- Segment clamp bolted or hydraulic operated quick opening covers
- Skid or caster mountings
- Pumps
- Pre-coat tanks
- Interconnecting piping etc.

STRAINERS

Filter baskets:

- (Laser) Perforated steel;
- Wedgewire supported by steel frame;
- Supported mesh.

STREAM JACKETED STRAINERS

Strainers are often used for the removal of coarse particles in order to protect prilling and granulation equipment. With the use of stainless steel plugging can be avoided which results in less downtime of the equipment, and eliminates maintenance costs. Strainers can be earth-insulated (including valve) to enable parallel operation or cleaning of two strainers while the other one is operating.

Contaminant count on professional advice and support from all-rounders in filtration technology, offering effective, efficient and durable solutions that will prove themselves in the long term.

APPLICATIONS

- Gas Purification
- Sulphuric Acid
- Mining
- Titan Oxide
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The Twin Filter Sulphur Filter is a horizontally insulated vessel with a minimum of 50 mm insulation. The tank is fully steam jacketed on the sides, dish heads cover closure and all nozzle connections. Steam jacket design pressure is 5.5 bar. The filter should be installed with a minimum of 50 mm insulation.

The filter is equipped with a retractable shell, hydraulically operated. The standard design includes a heated closure flange to prevent solidification of the liquid sulphur-filtering medium. Corrosion will be the critical part of the Liquid Sulphur Filter. Good filtration performance begins with quality filter leaves. Twin Filter offers various designs of filter leaves for different Liquid Sulphur filters.

The Twin Filter Sulphur Filter offers 2 variations of Vertical Leaf Liquid Sulphur Filters, both insulated with a minimum of 50 mm insulation:

• Hydraulically operated with a bajonet closure.
• In case of a power failure the tank can be manually retracted.
• No disconnection of piping during cleaning.
• All filter leaves have a filtrate discharge outlet nozzle. This can be equipped with a single or dual "U"-ring construction for a leakage-free sealing.
• The mesh is fitted in a box-closure frame which can be welded, bolted or riveted.

OPTIONS

• Overhead frame
• "Plug and Play" construction
• Heat exchanger jacket
• Inlet distributor

FILTER LEAVES

All filter leaves are of over head type. Twin Filter offers a variety of designs of filter leaves for different Liquid Sulphur filters:

Standard Stainless Steel filter leaves consist of several layers of mesh, the inner mesh coarser for a free flow of the filtrate and the support of the drainage and filter leaf. Twin Filter offers designs of filter leaves for all nozzle connections. Steam connections are combined in a central steam inlet nozzle to enable easy/quick installation.

The filter leaves are the heart of the filter system and therefore the most critical part of the Liquid Sulphur Filter. Local Miconor performance begins with quality filter leaves. Twin Filter offers various designs of filter leaves for different Liquid Sulphur filters.

The removal of high volume of fine solid contaminants is critical for successful filtration. Twin Filter offers both insulated and non-insulated conditions for the operation.

ADVANTAGES

• Filter leaves stay stationary at all time, no premature cake dropping during operation.
• No disconnection of piping during cleaning.
• No corrosion caused by oil, dust or other impurities in the discharge point.
• All filter leaves have a filtrate discharge outlet nozzle. This can be equipped with a single or dual "U"-ring construction for a leakage-free sealing.
• The mesh is fitted in a box-closure frame which can be welded, bolted or riveted.

The principal advantage of an over head type filter leaf is that the filter leaves fully acid-wash cleaning. Filter leaves can be demounted from their frame without breaking the vacuum. No filter leaves are removed from their frame connections. The Twin Filter leaves can be reassembled in a "plug and play" construction. The only connection to be made is the support frame and not the support of the drainage and filter leaf. Twin Filter offers various efficient support frames which can be welded, bolted or riveted.

SULPHUR POLISHING FILTERS

Optimal filtration results can be achieved by the implementation of a Liquid Sulphur Polishing Filter. The primary purpose of the Liquid Sulphur Polishing Filter is the removal of the last contaminants such as filter aids, ashes, etc., that might plug the catalyst mass. The removal of solid contaminants results in a lower differential pressure in the converter downstream, reduces maintenance costs and reduces the downtime of the sulphuric acid plant. Twin Filter offers various designs of filter leaves for the removal of the last contaminants such as filter aids, ashes, etc., that might plug the catalyst mass. The removal of solid contaminants results in a lower differential pressure in the converter downstream, reduces maintenance costs and reduces the downtime of the sulphuric acid plant.

SULPHUR PROCESS DESCRIPTION

The inlet of the filter is located at the bottom of the filter. The filter leaves are of over head type. The inlet distributor is a central distributor plate to ensure a free flow of the filtrate and a uniform distribution of the solids. The solids can be removed from the central distributor plate with a central vacuum. The solids can then be removed at the bottom of the filter. Twin Filter offers various designs of filter leaves for the removal of the last contaminants such as filter aids, ashes, etc., that might plug the catalyst mass. The removal of solid contaminants results in a lower differential pressure in the converter downstream, reduces maintenance costs and reduces the downtime of the sulphuric acid plant.

SULPHUR POLISHING FILTERS

The Twin Filter Sulphur Polishing Filter is a horizontally insulated vessel with a minimum of 50 mm insulation. The tank is fully steam jacketed on the sides, dish heads cover closure and all nozzle connections. Steam jacket design pressure is 5.5 bar. The filter should be installed with a minimum of 50 mm insulation.

The Twin Filter offers a specially designed "Plug and Play" and durable filter leaf. The Twin Filter Sulphur Polishing Filter is equipped with a "Plug and Play" construction. The filter leaves are designed to be free draining and to have a protective polyurethane skimming on top of the filter leaves. The filter leaves will be supplied on a frame as a "Plug and Play" construction. You only need an inlet distributor and a vessel with multiple feed nozzles into the filter leaves. Twin Filter offers various designs of filter leaves for the removal of the last contaminants such as filter aids, ashes, etc., that might plug the catalyst mass. The removal of solid contaminants results in a lower differential pressure in the converter downstream, reduces maintenance costs and reduces the downtime of the sulphuric acid plant.

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PRIMARY FILTERS

The Twin Filter Sulphur Filter is to remove impurities, such as acid and known that might plug the catalyst mass. The removal of solid contaminants results in a lower differential pressure in the converter downstream, reduces maintenance costs and improves the operation of the converters.

The Twin Filter Sulphur Filter is one of the most suited filters for sulphur processes. It is a horizontal filter tank with actively rotated filter plates. The tank is fully steam jacketed on the sides, dish heads, bottom and top and all nozzle connections. All flow paths include a laminar flow design. Standard design pressure is 5.5 bar and differential pressure across the filter plates, showing theoretical pressure drop in 0.5 bar. The filter should be insulated with a minimum of 50 mm insulation.

The filter is equipped with a heated closure, hydraulically operated. Our standard design includes a heated closure flange to prevent solidification of the filter leaves. This design reduces the risk of closing the filter leaves. The filter leaves have a 8 x 8 mesh construction.

ADVANTAGES

• Filter plates stay stationary at all time, no prewarming cycle dropping during alignment.

• No discontinuation of piping during cleaning.

• A continuous part such as a drain is supplied above the filter plates where the filter is opened. The filter is carried out from the upper nozzle and pulled up by a unique lifting device.

• The filter plates are equipped with a frame as a "plug and play" construction. The filter plates can be removed from the piping.  No difficult and time consuming alignment is not necessary.

• All filter connections are combined in a central drain union to avoid pipe connections.

• It is composed of a power failure the tank can be manually retracted.

• A hydraulically operated filter screen can be a quickly opened.

• A fastening belt - by having a reusable belt, the filter handle does not rust.

FILTER LEAVES

The filter leaves are the heart of the filter system and therefore the most critical part of the sulphur filter. Local Maintenance performance begins with quality filter leaves. Twin Filter offers a choice of 3 filter leaves for different Liquid Sulphur filters.

Standard Stainless Steel filter leaves consists of several layers of mesh, the inner mesh coarser for a free flow of the filtrate and the support of the drainage and filter leaves. Twin Filter offers two types, 5 layer and 3 layer filter leaves for Liquid/Sulphur Filtration.

3 Layer Filter leaf
Support 2 layer mesh 2 x 4
Filtration 2 layer mesh 26 x 110

5 Layer Filter leaf
Support 2 layer mesh 2 x 4
Drainage 2 layer mesh 26 x 110
Filtration 2 layer mesh 26 x 110

A 5 Layer filter leaf reduces a more effective drainage while in filtration mode. The leaves are equipped in a hinge closure frame which can be extended, bolted or screwed.

All filter leaves have a 8 x 8 mesh construction. This can be equipped with a single or dual "U"-ring construction for a leakage-free seating.

SULPHUR PROCESS DESCRIPTION

The Twin Filter Sulphur Filter is one of the most suited filters for sulphur processes. The removal of solid contaminants results in a lower differential pressure in the converter downstream, reduces maintenance costs and improves the operation of the converters.

SULPHUR POLISHING FILTERS

Sulphur Polishing Filter. The primary purpose of the Liquid Sulphur Polishing Filter is to remove the last contaminants such as filter aids, ashes, etc., that might plug the catalyst mass. The removal of solid contaminants results in a lower differential pressure in the converter downstream, reduces maintenance costs and improves the operation of the converters.

Various cartridges can be applied to achieve this result:

• Ceramic cartridges;
• Sintered metal cartridges;
• Glass fibre cartridges.

Various filter elements can be matched to achieve the best result:

Alternatively Twin Filter offers a specially designed STURDY and durable filter leaf. The filter leaf has a sturdier type construction and can easily be removed at any time. The STURDY filter leaf is made of highly prewarming materials. The filter plate is designed for free drainage and low pressure drop. The life time of the STURDY filter leaf can go up to 20 years. Higher investment costs will lead to reduction in maintenance costs.

Wire mesh on roll for on site remeshing is also available.

OPTIONS

• Overhead frame

The principal advantage of an overhead frame support the leaves in the filter. Fully adjustable for cleaning, filter leaves can be placed into a central or external container without disturbing the filter in operation. The filter leaves are suspended in a frame as a "plug and play" construction. The only operation required is that the leaves are removed and cleaned in a special cleaning tank. The cleaning tank is very thick and solid construction with baffles of stainless steel weld net in all details. When the filter is opened the leaves can be removed and replaced at different steps of the cleaning process. Conversion will be for the world.

• Supported screen

We supply a glass fibre screen which suits the application. This screen has a perfect and ordered fit of the screen. The screen is manufactured of a good screen material to ensure the highest quality.
**PRIMARY FILTERS**

The Twin Filter offers two variations of Vertical Leaf Liquid Sulphur Filters, both insulated with a minimum of 50 mm insulation.

- The tank is fully steam jacketed on the sides, dish heads cover closure and all nozzle connections. After installation of internal components, standard design pressure is 6 bar and a 3,5 bar differential pressure across the filter plates. Design plate design pressure is 4,5 bar. The filter should be insulated with a minimum of 50 mm insulation.

- The filter is equipped with a hydraulically operated, double jacketed flange, allowing quick and easy access to the filter plates. Standard design includes a heated closure flange to prevent solidification of sulphur on the sealing surfaces. The three-part quick-opening closure is secured for handling.

**ADVANTAGES**

- No moving parts such as a chain or cylinder above the filter plates when the filter is opened. Aggressive vapors will condense on the filter plates.
- The filter will be supplied on a frame as a “Plug and play” construction. You only need to have the filter leaves riveted to the frame.
- A 5 layer leaf reduces a more effective drainage while in filtration mode. The leaves are fitted in a line closure frame which can be vertical, fixed or horizontal.
- All filter leaves have a filtrate discharge outlet nozzle. This can be equipped with a single or dual “U”-ring construction for a leak-proof seal.

**OPTIONS**

- **Overhead frame**: Enables easy and quick installation of the filter.
- **Plug and play**: Enables easy and quick installation of the filter.
- **Heated support ring**: Ensures easy and quick installation of the filter.
- **Elongated viewing ports**: Provides easy and quick installation of the filter.

**FILTER LEAVES**

Standard stainless steel filter leaves consist of several layers of mesh, the inner mesh coarser for a free flow of the filtrate and the support of the outer mesh. Twin Filter offers two types, 5 layer and 3 layer filter leaves for sulphur filtration.

- **3 layer filter leaf**: Support F layer mesh 24 x 110 Diffusion 2 layer mesh 24 x 110
- **5 layer filter leaf**: Support F layer mesh 24 x 110 Diffusion 2 layer mesh 24 x 110 Diffusion 4 layer mesh 24 x 110 Diffusion 6 layer mesh 24 x 110

**SULPHUR PROCESS DESCRIPTION**

Optimal filtration results can be achieved by the implementation of a Liquid Sulphur Polishing Filter. The primary purpose of the Liquid Sulphur Polishing Filter is the removal of the last contaminants such as filter aids, ashes, etc., that might plug the catalyst mass. The removal of solid contaminates results in a lesser differential pressure in the converter downstream, reduces maintenance costs and extends the life of the sulphuric acid plant.

**SULPHUR POLISHING FILTERS**

Optimal filtration results can be achieved by the implementation of a Liquid Sulphur Polishing Filter. The primary purpose of the Liquid Sulphur Polishing Filter is the removal of the last contaminants such as filter aids, ashes, etc., that might plug the catalyst mass. The removal of solid contaminates results in a lesser differential pressure in the converter downstream, reduces maintenance costs and extends the life of the sulphuric acid plant.

**OPTIONS**

- **Idler distribution**: Can be installed for support of filter discharge.
- **Elongated viewing ports**: Provides easy and quick installation of the filter.
- **Glass fibre cartridges**: Provide easy and quick installation of the filter.
- **Sintered metal cartridges**: Provide easy and quick installation of the filter.
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MATERIAL OF CONSTRUCTION

Vessel and all wettable parts are available in carbon steel and several grades of stainless steel. Gaskets can be supplied in rubber, PFA, PVDF or other linings. Filter leafs are primarily manufactured in stainless steel. Other materials upon request.

OPERATION CONDITIONS

Standard tank construction accommodates 6 bar working pressure at 165°C. Higher pressures and temperatures are available on request. Allowable differential pressure across the filter elements is 3.5 bar.

OPTIONS

Optimal equipment includes: heating or cooling jackets, thermplate or segment clamp bolted or hydraulic operated quick opening covers, skid or caster mountings, pumps, pre-coat tanks, interconnecting piping etc.

STRAINERS

Strainers are often used for the removal of coarse particles in order to protect downstream equipment. With the use of strainrings plugging can be avoided which results in less downtime of the equipment, and reduces maintenance costs. Strainers can be installed either manually or automatically.

Filter baskets:

- (Laser) Perforated steel;
- Wedgewire supported by steel frame;
- Supported mesh.

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LIQUID SULPHUR FILTER

Steam Jacketed Strainers

Strainers are often used for the removal of coarse particles in order to protect downstream equipment. With the use of strainrings plugging can be avoided which results in less downtime of the equipment, and reduces maintenance costs. Strainers can be installed either manually or automatically.

Filter baskets:

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Specifications of Equipment

Material of Construction

Vessels and all wetted parts are available in carbon steel and several grades of stainless steel. Gaskets can be supplied in rubber, PFA, PVDF or other linings. Filter leafs are primarily manufactured in stainless steel. Other materials upon request.

Operation Conditions

Standard tank construction accommodates 6 bar working pressure at 165°C. Higher pressures and temperatures are available on request. Allowable differential pressure across the filter elements is 3.5 bar.

Fittings

Standard flanged connections according to DIN or ANSI. Other desired specifications upon request.

Pressure Vessel Code and Inspections

Design codes according to PED97/23/EC with CE marking or ASME VIII. Available certifications: JIL, GOST, TÜV, Impressions by TÜV, TÜV, TÜV, "U" stamp and others.

Options

Optional equipment includes: heating or cooling jackets, thermplate, segment clamp bolted or hydraulic operated quick opening covers, skid or caster mountings, pumps, pre-coat tanks, interconnecting piping etc.

Specifications of Equipment

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