



# CSF Self-cleaning Wedge Wire Filter

## Function

The COLF (Contec Liquid Filters) wedge wire filter consists of the following parts:

- two part filter housing
- wedge wire element
- cleaning - scraper blade
- motor

The CONTEC automatic strainer is a logic, efficient and economical way of filtration.

The system is solidly built and may be used for the toughest applications. The medium flows from the outside to the inside of the filter element and the solids are collected on the outside of the wedge wire screen. The scraper blade cleans the rotating filter element and the collected solids are forced into the bottom part collection area by the liquid pressure. The collected solids may be purged manually or by means of automatic valves. Clogging of the filter is almost impossible, because of the special construction of the wedge shaped filter element wires. The filter fineness is established by the width between the wedge formed wires. The elements may be changed without any special tools.

## Benefits

- No cartridge use
- Self-cleaning
- No interruption of production process
- Easy to dismount and inspect
- Low operating costs
- Solidly built filter housing
- Limited maintenance, uncomplicated, rugged, reliable design
- Filtration level 25 µm – 3.0 mm
- Continuous cleaning of the filter surface ensures minimum pressure drop
- The use of different construction materials and equipment facilitates application possibilities for the filter in every field of industry.
- Installed upstream of pumps etc. extends the life of such components and prolongs the service life of fine filters.

## Features

- Permanent cleaning without stops
- No waste or disposal of filter cartridges
- Minimal product loss during purging
- May be used for all kinds of liquids
- Filters from 25 µm up to 3.0 mm
- Maximal temperature up to 200 °C
- High resistance to differential pressure
- High differential pressure
- Rugged two part housing
- Outside - inside filtration
- No product contamination
- Purging by ball valve or automates
- Taylor made execution possible

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Scraper blade unit CSF1000



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## Technical data

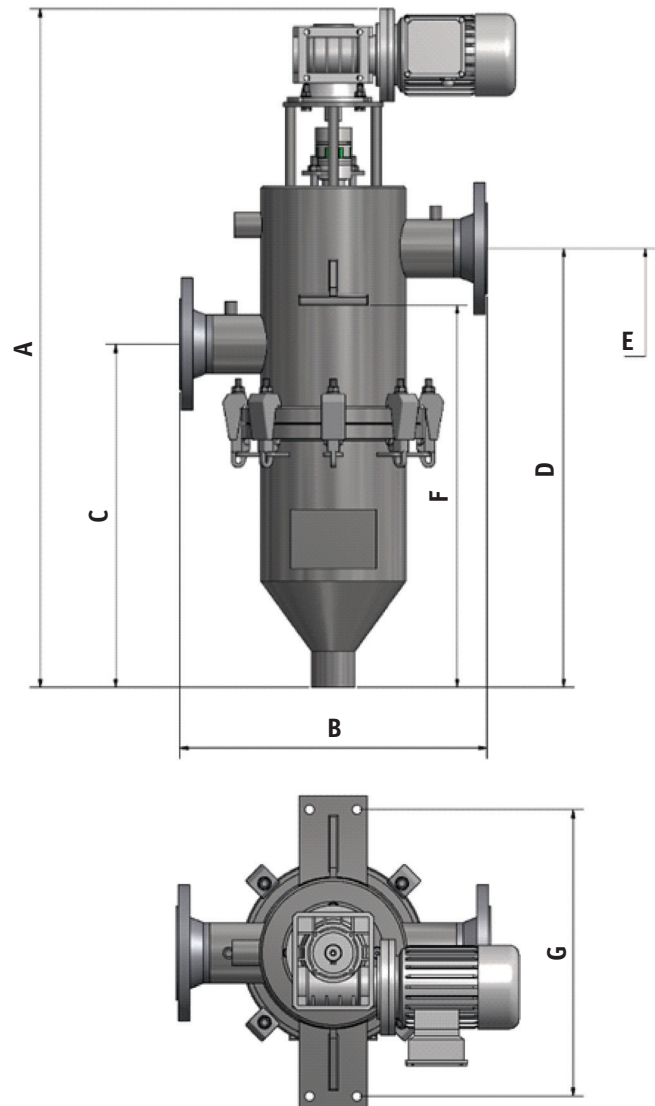
### Materials

<b>Filter housing</b>	Stainless steel 316 Ti/1.4571
<b>Filter element</b>	Stainless steel 316 L/1.4435
<b>Scraper blade</b>	Stainless steel 301/1.4310
<b>Gasket</b>	Viton O-Ring/PTFE, (others on demand)
<b>Filter elements</b>	25 µm – 3.0 mm
<b>Working pressure</b>	0 – 10 bar (16 bar on demand)
<b>Working temperature</b>	+10 °C – +80 °C
<b>Motor</b>	Worm Gear motor
<b>Electrical connection</b>	Power 230/400 V, 50 Hz Other Voltages on request
<b>Safety class</b>	IP 65 (optional mit EX-Schutz)
<b>Option</b>	EX – proof (ATEX 100a)

Manufactured acc. pressure vessel directive 2014/68/EU category I, module A

### Options

- Explosion proof motor
- Special voltage
- High pressure version
- Coatings and special materials
- TÜV and other certificates



## Technical data

Type		CSF250	CSF400	CSF700	CSF1000
Capacity Water	[m³/h*]	< 4	13	25	35
Inlet		R 1"	Flange DN 50	Flange DN 65	Flange DN 80
Outlet		R 1"	Flange DN 50	Flange DN 65	Flange DN 80
Purge		R 3/4	R 2"/ Flange DN 50	R 2"/ Flange DN 50	R 2"/ Flange DN 50
Vent		R 1/8	R 1"	R 1"	R 1"
Housing closing		Quick closure clamp	Clamp screw	Clamp screw	Clamp screw
Built in height	A [mm]		865	965	1,030
Flange size	B [mm]		365	365	465
Flange height	C [mm]		370	470	520
Flange height	D [mm]		500	600	670
	E [mm]		300	400	400
	F [mm]		435	535	580
	G [mm]		335	335	420
Volume	[Ltr.]	1.5	10.5	12.5	22.5
Power watt	[Watt]	20	90	90	90
Weight	[kg]	12	41	47	81

\* based on water and 100 µm



# CSF Self-cleaning Wedge Wire Filter

## Description

The robust CONTEC CSF filter with its motor-driven cleaning device is suitable for the separation of suspensions as well as the continuous separation of solid particles from liquids whose viscosities may range from water-thin to pasty. It thus offers a wide range of application possibilities throughout the entire processing industry.

The filter housing is constructed in two parts and is easy to open. By loosening the quick clamps or hexagonal bolts the lower part, including the sump can be removed downwards. The filter elements can be removed without special tools and are easy to clean, if required. The various design types made of steel or stainless steel materials, with or without heat jacket enable this versatile filter to be employed for numerous applications.

## Operation

The liquid flows from the outside to the inside of the wedge wire screen and leaves the filter housing through the higher placed exit. Between lower placed entrance and the upper exit a seal is placed, limiting any cross contamination between lower (dirt) part and upper (clean) part.

Dirt and particles are retained on the outside of the screen and are continuously removed from the filter element with a flexible scraper blade. The dirt is directed to the sump by a laminar flow in the filter and collected in the bottom part of the filter housing. This collection chamber may be purged either manually or automatically through a valve.

An automatic purge system can be set up including an actuator and a time controller or pressure differential initiated valves. The installation of a manual by pass function is advised. Liquid losses are limited. The automatic strainer is available either skid mounted or with support legs.

## Applications

- **Chemical Industry**  
Ammonia, Solvents, Softening agents, Glycol's, Adhesives, chemical base materials, Suspensions, Lye's, Waste liquids, etc. washing liquids, distillation and reaction fluids, surfactants. For preliminary and coarse filtering upstream of distillation columns, reactors, flue gas Scrubbers, pumps, fine filters, filling plants, etc.
- **Paint and Colour Industry**  
Varnishes, Dispersions, Coatings, Tar products, Agents, etc.
- **Beverage Industry**  
Wineries (Must filtration), Breweries, Distilleries, etc.
- **Cosmetic Industry**  
Soaps Fats, Essences, Tooth Pastes, etc.
- **Plastic Industry**  
Base products, PVC and PU Pastes, Rubber products, Silicones, etc.
- **Food Industry**  
Sweets, Dairy products, Fats, Flavours, Concentrates, Treacle's, fatty acids, cooking oils, molasses, fruit concentrates and juices, syrups, chocolate mass, egg mass
- **Mineral Oil Industry**  
Oils, Greases, Solvents, Waste Oils, Diesel Oils, lubricating oils, heating oils, heat transfer fluids, reclaimed oils
- **Car Industry & metal working**  
Degreasing baths, Cooling liquids, Lubrication liquids, Greases, etc. Cooling water, washing and scrubbing water, process water, water from cutting Processes
- And many others, I.e. Electro-, Optic-, Pulp & Paper-, Leather-, Sugar-Industries ...