



HiFlux Filtration

SPECIALISTS IN LIQUID FILTRATION SOLUTIONS



A MEMBER OF
**FEED &
DRINK
FORUM**

SDT Society of
Dairy Technology
Passion for Dairy



About ITS



An experienced process equipment specialist, Industrial Trading Solutions Ltd have over 100 years combined technical knowledge and applied skills in the food & beverage, brewery, distillery, dairy, pharmaceutical and personal care industries.

Formed in 2002 and based in the Midlands UK, ITS now distribute a multitude of top industry brands with a fast service, at competitive prices and all with an unmatched customer ethos.

Our technical team can support you with large system projects, one-off product purchases and maintenance & repair services. As an ISO9001, ISO14001 & ISO45001 accredited business, you can expect the very best service and the highest standards from Industrial Trading Solutions Ltd.

DISTRIBUTING SOLUTIONS PROCESSING EXCELLENCE

"Operating within a safe and transparent culture of respect and innovation, we are dedicated to positively conduct ourselves with high ethical standards and integrity. We will continue to invest in and develop our staff, reliable product ranges and services provided, to ensure the high standards expected with the market we operate are upheld or exceeded. As the complete solutions supplier of choice, we value all stakeholders of the business and build strong relationships to reinforce our unrivalled reputation and future growth."

Peter Jeans, Company Founder and Chairman



What our filters do

Filtration of most liquids.

The two main reasons for filtration.

Protection:

- Reduce damages from larger impurities or erosion
- Protect pumps and heat exchangers
- Protect valves, boilers and pipes
- Protect spray equipment

Refining:

- Modifying the product and securing the quality
- Remove unwanted particles and amalgamations
- Retaining valuable particles in the liquid



Improve the product quality

The closed system design eliminates the risk of contamination of your product.



Reduce waste and operation costs

The self-cleaning filter eliminates the need for replacing filter media and disposal costs, reducing product wastage, downtime, and labour costs.



Increase your production rates

With its self-cleaning design there is no need to change filter media, resulting in consistent and reliable filtration.



Safeguard the health and safety of your operators

With a closed system design, no hazardous product or evaporations escape during operation, limiting operator exposure to contact with the products.



How does it work?

HiFlux Auto-line filter is designed as a compact self-cleaning filter

The sturdy construction of the filter makes it well suited for industrial and hygienic applications in which operational reliability and dependability are essential.

The area of application is broad and includes filtration of many different types of liquids such as highly viscous liquids, dairy products, chocolates, beverages within the food sector as well as paint & varnish, polymer suspensions, emulsions, process water and wastewater in the industrial sector, where effective pre- or final filtration is required.



Reduction in operational costs

The Auto-line continuously removes unwanted particles. This means that consumption of conventional filter bags or cartridges, including the time spent changing them, can be substantially reduced - or eliminated altogether. As a result, operating costs are reduced and the need to handle problem waste in the form of filter cartridges or bags is avoided.



Functionality

The filtration principle is based on a filter strainer, with the solid particles being retained on the inside of the filter element. In the cleaning process, a vertical or a rotating scraper transport the solids into a sludge chamber at the bottom of the filter.

The chamber is designed in such a way that a high concentration of solids can be retained before purging. The scraping action is activated either automatically by differential pressure across the filter due to saturation or at fixed time intervals. The concentrated slurry is drained at appropriate intervals through the discharge valve at the bottom of the filter.

Drainage is controlled individually by an electrically or pneumatically operated control system, which means that product loss is kept at an absolute minimum. Drainage in batch processes may also be controlled manually in cases where it is only required at the end of the batch.



Operation

On a rotating filter a number of knives scrape the surface of the filter element leading the sludge into the sludge chamber in the bottom of the filter. On a linear filter, the plunger movement is actuated with a pneumatic cylinder, which can be equipped with an extended piston rod to avoid, that any part of the piston rod encounters the media as well as the inside of the pneumatic cylinder.



About our service

The HiFlux Auto-line Filter is developed to be adapted to our customers' needs and requirements and are available in various sizes for industrial and hygienic applications.

WHY CHOOSE A HIFLUX AUTO-LINE FILTER FROM ITS?

Because we do not see an Auto-line filter as a commodity. Different customers, different applications, and different demands require different filter solutions. The filters are modular and allow for switching between the rotating and the linear cleaning principle as well as a wide range of add-ons is available.

It is this open-minded approach combined with more than 60 years of filtration experience and thinking in solutions, which is the base of designing high-performance filters for satisfied customers worldwide. HiFlux Filtration increases your productivity and your bottom-line.

Advantages with the Auto-line filter:

- Easy installation, operation and service
- Removes unwanted particles
- Continuous flow process
- Low maintenance cost
- Eliminates downtime
- Ensures the quality

 0 < 2.000 m3/h
(At a viscosity of 1 cSt)

 30 m - 2 mm.

Norms, rules and regulations

HiFlux Filtration A/S Auto-line filters are designed acc. to the EC directive for pressure vessels PED 97/23/EC, and can be supplied with approval to categories I, II, III or IV. Furthermore, the filters can be supplied for use in explosive areas, category 2 (zone 1) and category 3 (zone 2), according to 2014/34/EU.

For any food application, HiFlux Filtration A/S designs hygienic self-cleaning Auto-line filters in accordance with EU regulation EC 1935/2004 (registered by the Danish Food Administration). Furthermore HiFlux Filtration A/S can fulfil the FDA material certification requirements and respects the European Hygienic Equipment Design Group's (EHEDG) design recommendations.



< 27 m3/h

< 47 m3/h

< 66 m3/h

< 110 m3/h

< 243 m3/h

< 970 m3/h

< 2.000 m3/h

Hygienic & Industrial

Industrial

Our sectors

We have a competent knowledge of a large range of sectors through dedicated work and research. This enables us to offer the most optimal filtration solutions.

We develop customer-specific solutions to improve your production and achieve a uniform product.

The area of application is broad and includes filtration of many different types of liquids within the food and industrial sector where effective pre- or final filtration in the 30 m - 2 mm. range is required.



Food/ hygienic



Industrial



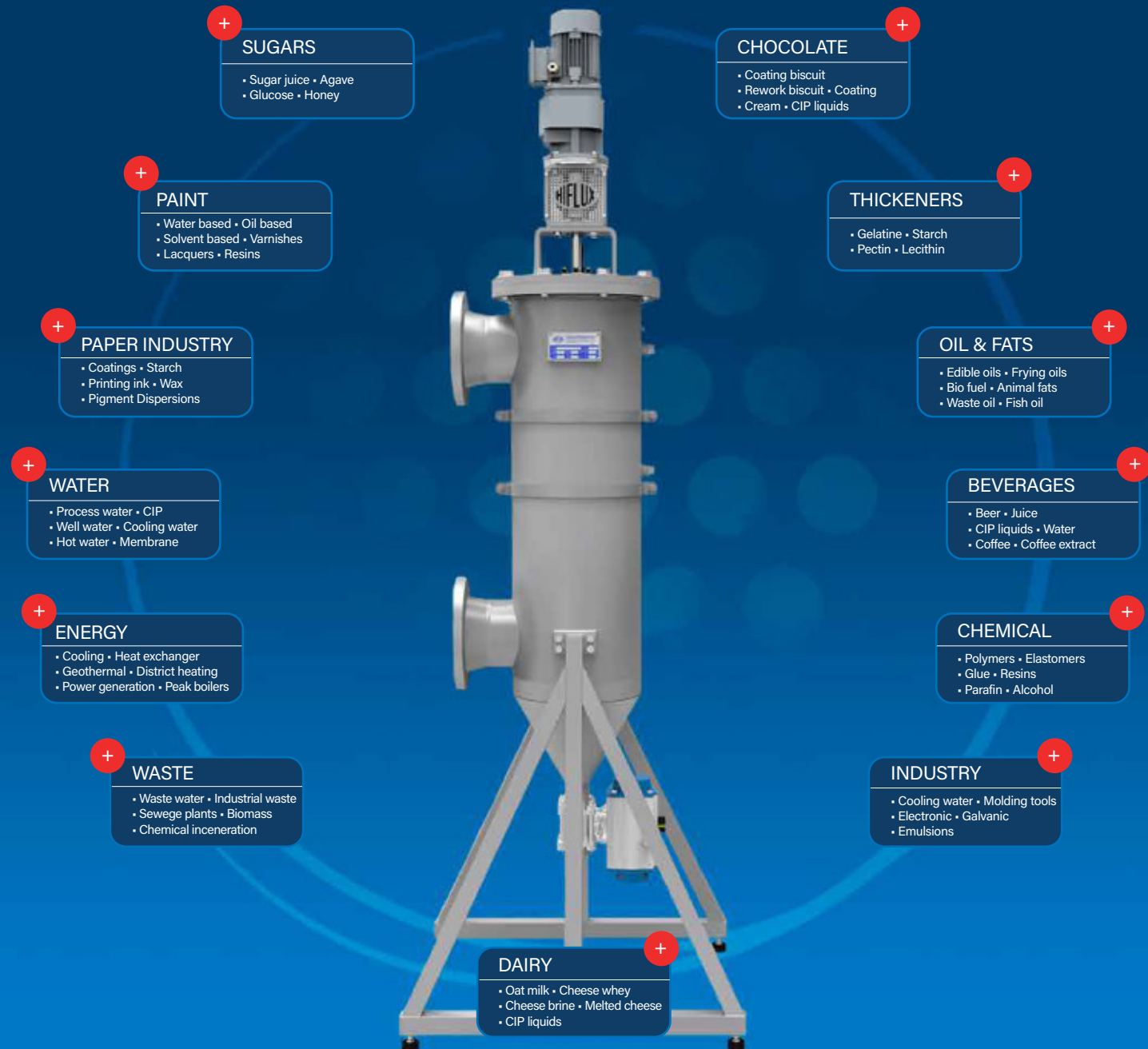
Pharmaceutical



Chemicals & Polymers



Paint & Coating



Add-ons for the Auto-line filter solutions

We have developed a wide range of addons to the Auto-line filter series. It is possible to customise the filtration solutions for specific applications depending on the demands of each filtration project such as drive systems, controllers, heating jacket, sluice systems, scrapers, sealing boxes, lifting device and much more.



01

Drive systems

Depending on the application, different types of drive systems are available.

- Electrical motor
- Pneumatic cylinder
- Double cylinder
- Pneumatic motor

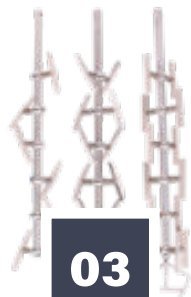


02

Filter elements

Different types of elements with unique features, that makes them well suited for various applications.

- Wedge wire
- Laser bore
- Perforated



03

Scraper arrangement

Depending on customer needs and specifications, we customise the scraper arrangement to achieve maximum performance.

- Angle
- Straight
- 4-channel



04

PLC & on/off controllers

Various controllers to provide high reliability and secure operation.

- Safe and simple operation
- Easy maintenance



05

Sluice system

The sluice concentrates the purge volume in the system and are available in different sizes and designs.

- Prevents pressure drop
- Reduces product loss



06

Heating jacket

The heating jacket can be provided for applications where the media must maintain a fixed temperature.

- Operating temperatures (270°C)
- Double-walled construction
- Space for insulation



07

Lifting device

Mechanical lifting device to be mounted on the filter housing and cover.

- Increased safety
- Easy access and maintenance (one-man operation)



Inside view of the Auto-line filter

The filtration principle is based on a filter strainer, with the solid particles being retained on the inside of the filter element.

In the cleaning process the particles are scraped into a sludge chamber at the bottom of the filter.

Customer in focus



Better profitability

- Completely automate the filtration process
- Re-usable filter elements
- Secure product filtration
- Reduce product loss



Self-cleaning automatic filter

- Easy and simple service
- High quality product
- Proven reliability
- Easy installation



Improved work environment

- Eliminate contact with product
- Reduced risk of errors
- Long service life
- Easy to operate



” Increase your productivity and earnings



We develop and manufacture quality filtration solutions, which retain particles in liquids. We create value by: Protecting production facilities from losses and risks. Refine products and increase efficiency in processes. Contribute to increased sustainability

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**Precision engineered by
our people, products and
experience.**

Test before investing

We offer the possibility to lease the Auto-line filter before investing. This way we can make sure you get the most optimal filter solution customised to your specific application.

Choosing the right filter can be a difficult task, that is why we offer both hygienic and industrial filter solutions in order to test your application. An informed, considered decision will help ensure seamless integration of the filter solution into your production and ensure trouble-free operation for years to come.

You will see how simple it is to install the Auto-line filter in any environment. You will notice and appreciate its compact design and experience how easy it is to service and operate on a daily basis.

Proven results after test:

- Costs for filter bags are removed
- Increased production capacity
- Better protection for operators
- Continuous production
- Reduced loss of media
- Eliminates down time
- Ensures the quality
- Reduced waste



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Use one of our filters on a leasing basis to experience first hand, filtration testing made easy.



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HiFlux Filtration A/S

