



# Turn Pollution into Profit

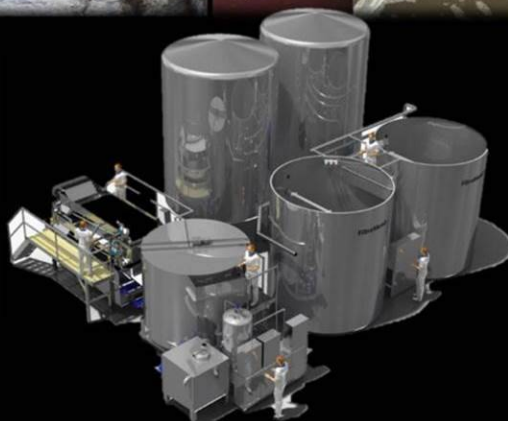
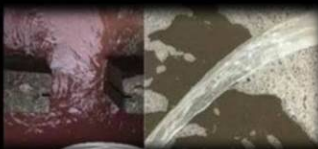
DANTECH Danish Technology Center Denmark is seen as a partner supplying green ( both environmently and financially ) solutions that turn pollution into profit by applying our care philosophy of adresssing the problem at it's source .



## Filtration®



## Waste Water Treatment for the Industry



**DANTECH**  
DANISH TECHNOLOGY CENTER

# Turn Pollution into Profit



## OUR FOCUS

SUSTAINABILITY IN ALL AREAS OF FOOD PROCESSING



PROTEIN RECOVERY



BY-PRODUCTS



CLEAN WATER



CHEMICAL FREE SOLUTIONS



**DANTECH**

Danish Technology Center



Green Vitus

Strandvejen 425 2950 Vedbæk Denmark Te.: +45 45 76 36 76 Email: [dantech@d-tech](mailto:dantech@d-tech) [www.d-tech.dk](http://www.d-tech.dk)



**EXPORT****FOOD INDUSTRY****CUSTOMIZED SOLUTIONS****PROJECT ROI UNDER 1 YEAR**

# Innovation Processing Engineering Technology

Danish Technology Center ApS has delivered innovative technology and solutions to the food processing industry since 1983. The solutions have been varied, and covered everything from designing and building entire factories to constructing processing on-board fishing trawlers. In 1996 Dantech added Clean Technology and Wastewater Treatment Systems to our solutions, to meet the growing global demand for environmental responsibility within the industrial sector. With key aims of cutting customer costs on effluent surcharges dramatically with a clear focus on "Greener Solutions" and at the same time ensuring no by-products are wasted during the production. Dantech - Danish Technology Center designs and manufactures fully customised solutions according to each customers unique demand and specifications. Dantech also contributes with input and ideas, built on more than 30 years of solid experience within the food processing industry on a global scale.

**DANTECH**

Green Vitus



# Turn Pollution into Profit

DANTECH Danish Technology Center Denmark is seen as a partner supplying green ( both environmently and financialy ) solutions that turn pollution into profit by applying our care philosophy of adressing the problem at it's source .

Since our beginning in 1969 we have expanded within Cleaner Technology—Automatic Systems for the Industry. The last 30 years With > Processing Systems > By-Product Processing Systems > Cleaner Technology Systems > Waste Water Treatment Systems for the food industry .



Recover By-Products while they have value

FiltraSurimi ®



Danish Caviar ®



Pollution must be treated where it's originated.



Green Vitus

# STANDARD MODULAR SYSTEM UNITS INDUSTRIAL WASTE WATER TREATMENT PLANTS

**A** Filtration

**FiltraCon**®

**FiltraMemb**®

**FiltraVac**®

**FiltraUV**®

**C** Flotation

**FiltraFlo C80**®

**FiltraFlo C50**®

**FiltraFlo C20**®

**FiltraFloC10**®

**D** DesinFection

**R** RoeSep

**RoeSep**®

**Mini RoeSep**®

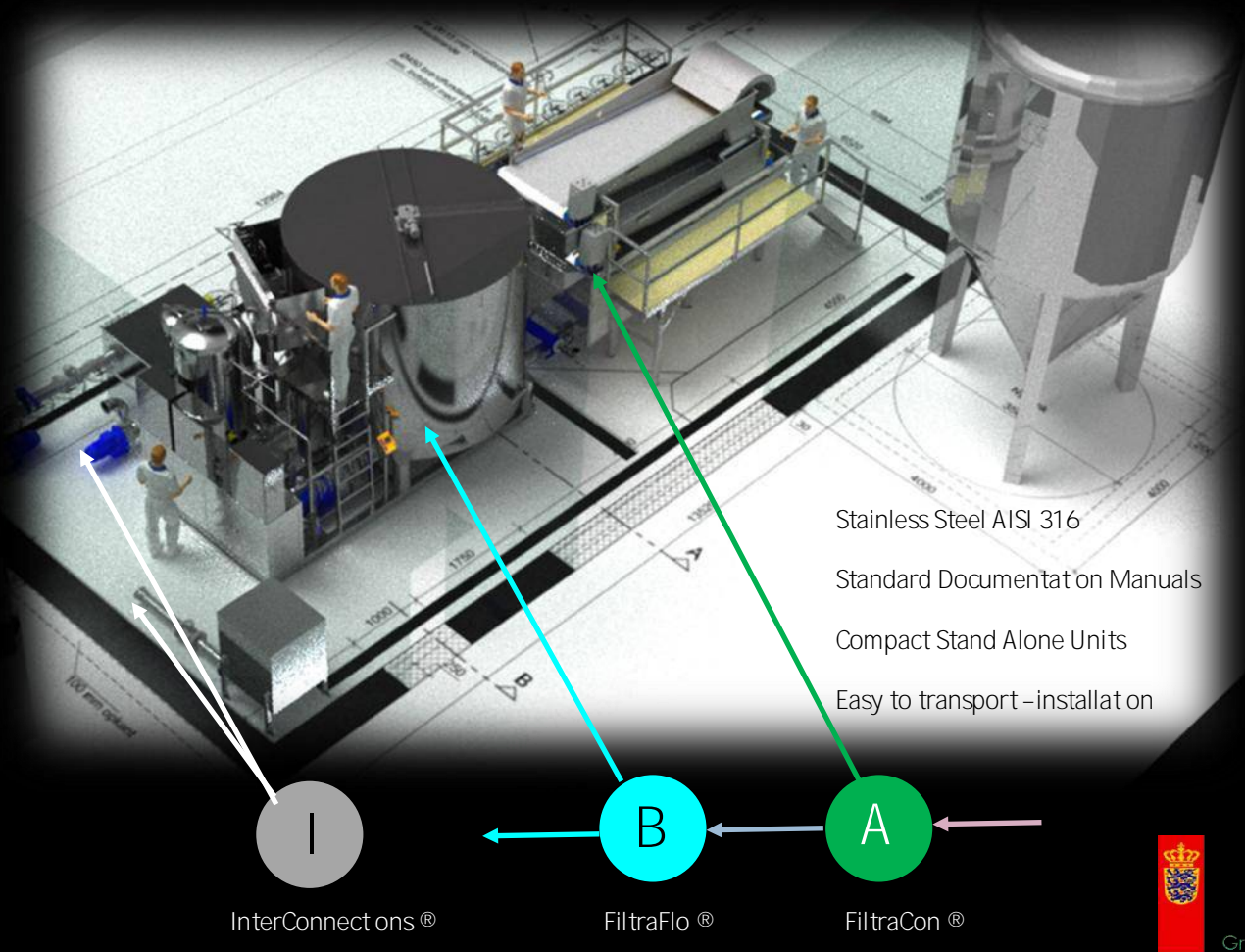
**Danish Caviar**®

**S** FiltraWash®

**FiltraSurimi**®

**I** InterConnect on®


DANTECH Danish Technology Center have designed, constructed and delivered STANDARD MODULAR SYSTEMS for Industrial Waste Water Treatment for more than 30 years



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# FiltraCon<sup>®</sup>

Turn Pollution into Profit

Pollution must be treated where it's originated

Recover By-Products while they have value

DANTECH Danish Technology Center Denmark is seen as a partner supplying green (both environmently and financialy) solutions that turn pollution into profit by applying our care philosophy of addressing the problem at it's source.

Our Main work areas are to assist our costumers recovering rawmaterial and turn it to Pollution and reducing big effluent outlet cost - TURN POLLUTION into PROFIT and Cleaner effluent outlet.

That makes a difference - less Pollution as well as much better and environmental hygiene.

With FiltraCon<sup>®</sup>  $\mu$  Filtration we separate Solid before it is dissolved in the waste water. Hereby We get clean hygiene By-Product suitable for human food - more Ressources - increased profits  
Benefit—Cleaner Waste Water.

## Waste Water Treatment for the Industry

Recover By- Products

~~Wrong -~~

That we see at many Processing Plants

- > Loosing Resources and Profit
- > High water consumption > High Cleaning Cost
- > High Pollution - dissolved high COD, S/S, F&O
- > Chemical expensiv treatment - chemical treated Sludge
- > Effluent Outlet high cost problems

FiltraCon<sup>®</sup>

- > Higher yield higher Profit
- > Lower Water Consumption > Lower Cleaning Cost
- > Cleaner Waste Water
- > Better Hygiene and environmental
- > Lower treatment Cost no Chemicals
- > Cleaner Technology.

GREEN SOLUTION



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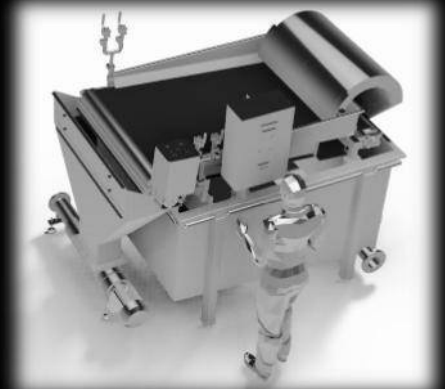
# FiltraCon<sup>®</sup> $\mu$ Filtration



## FiltraCon<sup>®</sup> Series A 3 - 2000

Pre-Treatment Filtration System

$\mu$  Filtration 20 - 60 - 100 - 200 - 300 - 400 - 500 -  
600 - 1000 $\mu$  - 1200 $\mu$



Dimension over all  
L x W x H = 2400x 1430x 1630 mm

## FiltraCon<sup>®</sup> Series A 4 - 3000

Pre-Treatment Filtration System

$\mu$  Filtration 60 - 100 - 200 - 300 - 400 - 500 -  
600 - 1000 $\mu$  - 1200 $\mu$

Also to customer requirements.



Dimension over all  
L x W x H = 3450 x 1430x 1830 mm



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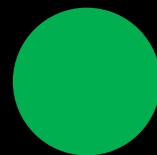
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# FiltraCon<sup>®</sup> $\mu$ Filtration



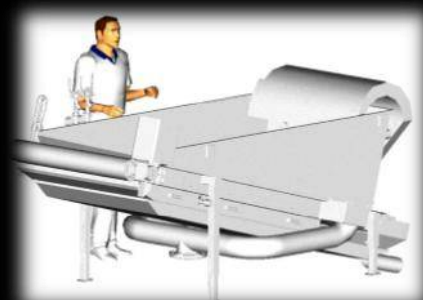
## FiltraCon<sup>®</sup> Series A 4 B - 3000

Pre-Treatment Filtration System

$\mu$  Filtration 20 - 60 - 100 - 200 - 300 - 400 - 500 -

600 - 1000 $\mu$  - 1200 $\mu$  Dim. 1100 x 3000 mm

Also to customer requirements.



Dimension over all

L x W x H = 3450 x 1430 x 1630 mm

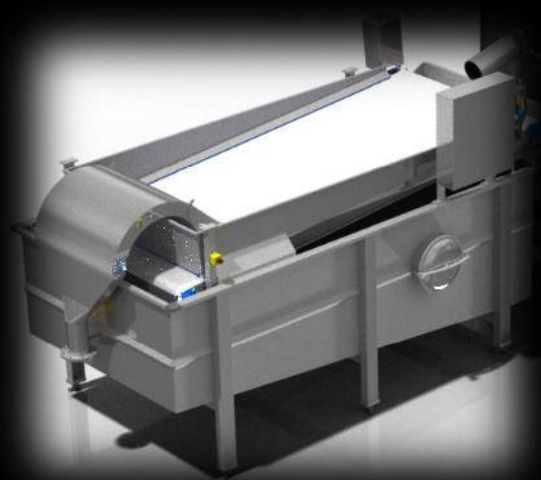
## FiltraCon<sup>®</sup> Series A 5B - 3850

Pre-Treatment Filtration System

$\mu$  Filtration 60 - 100 - 200 - 300 - 400 - 500 -

600 - 1000 $\mu$  - 1200 $\mu$  Dim. 1600 x 3850 mm

Also to customer requirements.



Dimension over all

L x W x H = 3850 x 1880 x 1830 mm



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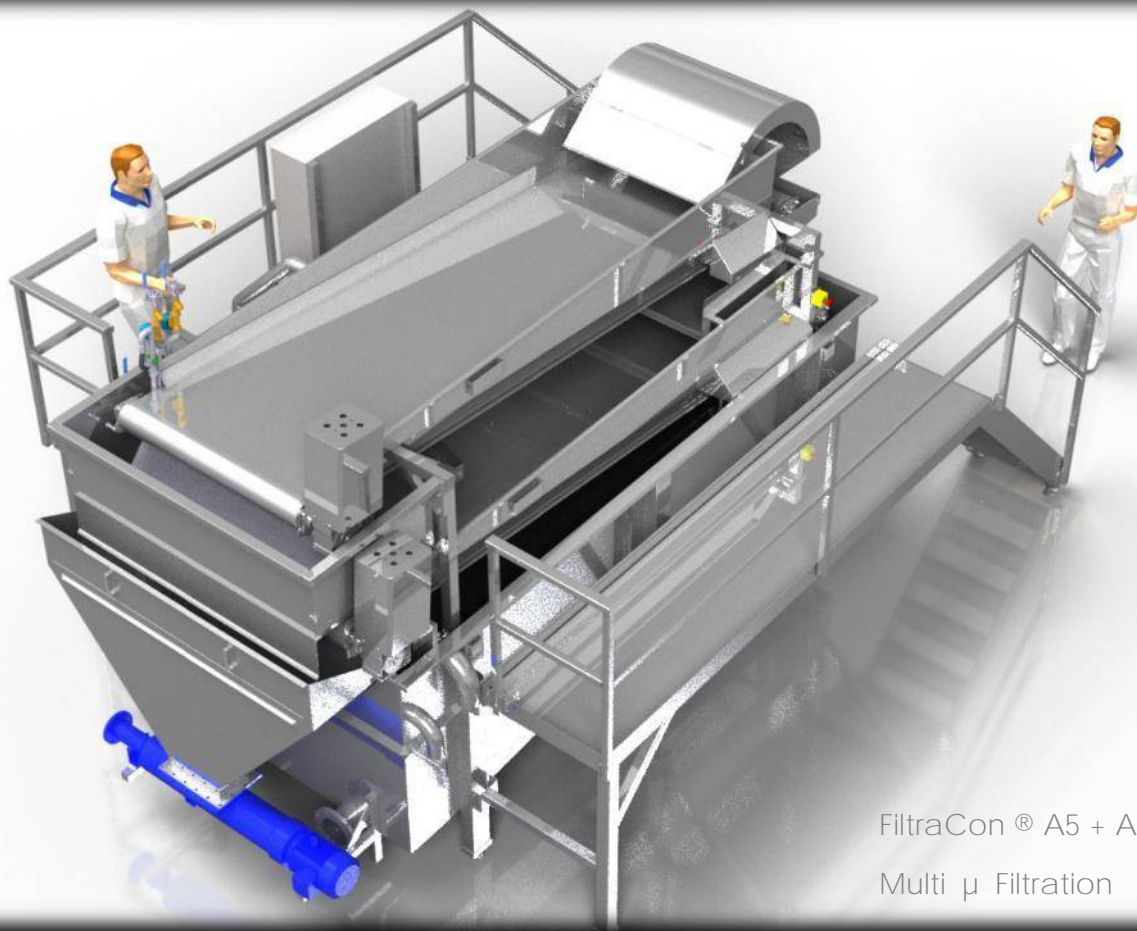


Filtration



# TURN POLLUTION INTO PROFIT

Dantech Danish Technology Center is seen as a partner supplying green ( both environmentally and financially) solutions that turn pollution into profit by applying our core philosophy of addressing the problem at it's source.



Filtration

Multi  $\mu$  Filtration



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# FiltraCon<sup>®</sup> $\mu$ Filtration

FiltraCon<sup>®</sup> Series A 5+ A5B

## Double Filtration System

Upper Filtration FiltraCon<sup>®</sup> A5

Filter belt Area L x W = 3750 x 1100 mm.

Lower Filtration FiltraCon<sup>®</sup> A5B

Filter belt Area L x W = 3850 x 1600 mm.

A5 Always with bigger  $\mu$  than A5B

Example : A5 Filter belt 400  $\mu$  A5B Filter belt 100  $\mu$

Depending of the waste water contents .

$\mu$  Filtration 60 - 100 - 200 - 300 - 400 - 500 -

600 - 1000 $\mu$  - 1200 $\mu$  can be selected .

We have example at the Salmon Industry that the Processing Plant use A5+A5B as final treatment for effluent 60-100 m<sup>3</sup>/Hr.

In the SeaFood industry we have plants where we have over 80 % Solid reduction.

The System are patent for FilterSurimi<sup>®</sup> and FiltraWash<sup>®</sup> for

Fish meat washing - dewatering- where the yield are higher and the water consumption much lower.

There are a very big different between Rotation Screen and FiltraCon<sup>®</sup> Filtration -

FiltraCon<sup>®</sup> better Separation and lower COD

FiltraCon<sup>®</sup> more gentle handling smaller lighter particles

Effluent from FiltraCon<sup>®</sup> are not falling to bottom of sea but will be moved away with the sea stream

Solid from Rotoscreen stock up at the bottom of Sea and

Give higher and higher pollution at sea .



UPPER Filtration



Lower Filtration



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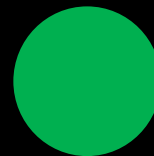
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# FiltraCon<sup>®</sup> $\mu$ Filtration



## FiltraCon<sup>®</sup> Series A 6 LF

### Multi Filtration System

Stand Alone STANDARD MODULAR Unit

Closed Robust System - Stainless Steel AISI 316

High Capacity up to 100 m<sup>3</sup>/Hr Suspended Solid and filter belt  $\mu$

Filtration 60 - 100 - 200 - 300 - 400 - 500  
- 600 - 1000 $\mu$  - 1200 $\mu$

Automatic System incl. Controller

Solid reduction over 80%

Compact Modular Unit.



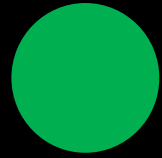
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## FiltraCon<sup>®</sup> Series A 8 - System

Turn Pollution into Profit

Pollution must be treated where it's originate

Recover By-Products while they have value

Logical Thinking : We get clean water to the processing Areas from Processing we mix the water with By-Products and the Solid , Fat , N and P will be dissolved into pollution the water - afterward the Pollution must be reduced and treated with chemicals to get the Protein and Fat out of the waste water as chemical treated sludge with high pollution and transport to rendering where the pollution go as next step .

The Processing plant missing a lot of Protein , Fat and profit of the raw material and generated a lot Pollution , chemical cost , treatment cost , transport cost .rendering cost and Manpower cost .

DANTECH Danish Technology Center have work more than 30 years for Treated Pollution where it originate and have increase many processing plants profit at same time reduced the effluent outlet cost .

We have work and deliver to the Seafood Industry and Salmon Industry more than 35 years .

## Turn Pollution into Profit





## FiltraCon<sup>®</sup> Series A 8

Filtration System for Processing

μ Filtration- System

- ⑩ A1 : Fish Processing Factories
- ⑩ A2 : By-Product Processing Factories
- ⑩ A3 : Fish Meal Factories
- ⑩ A4 : Canning Factories
- ⑩ A5 : Shrimp Processing Factories
- ⑩ A6 : Farmed Fish Processor Factories
- ⑩ A7 : Shell Fish Processing Factories
- ⑩ A8 : Fastfood Processing Factories
- ⑩ A9 : Petfood Processing Factories



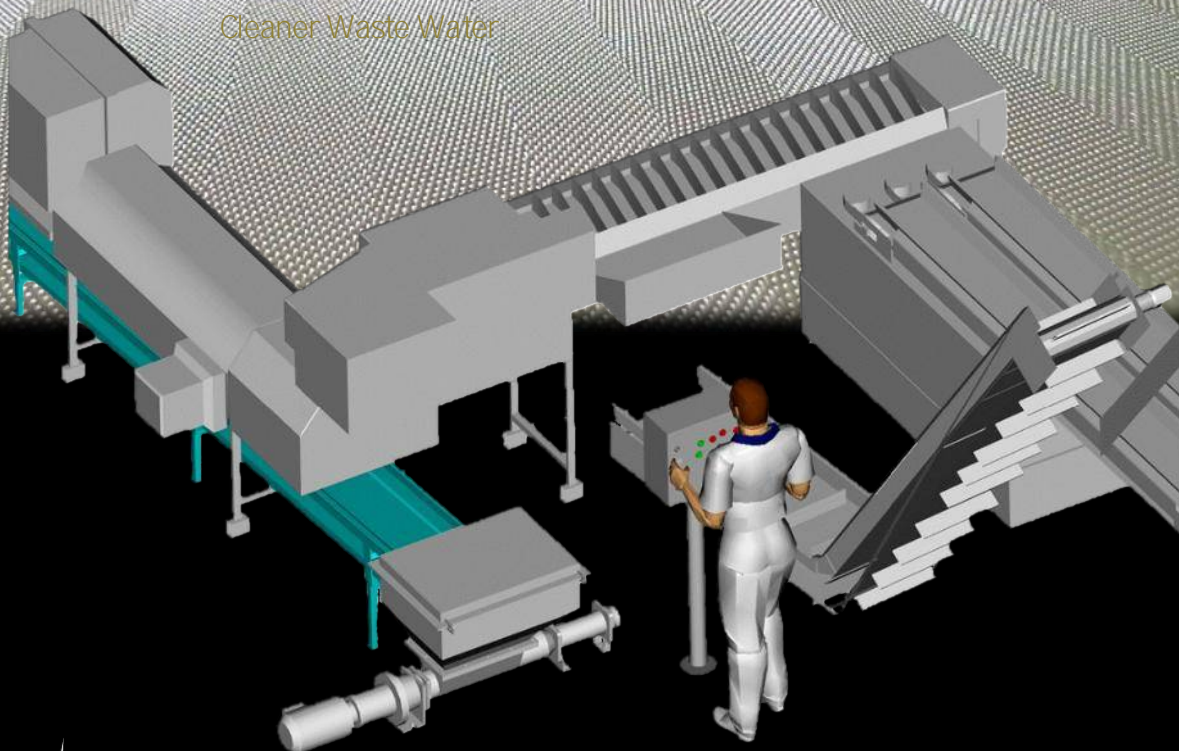
Turn the Pollution into Profit

μ Filtration

Gentle Hygiene Handling

High Yield

Cleaner Waste Water



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# FiltraCon® $\mu$ Filtration

## FiltraCon® Series A 8 - System

Turn Pollution into Profit

Pollution must be treated where it's originate

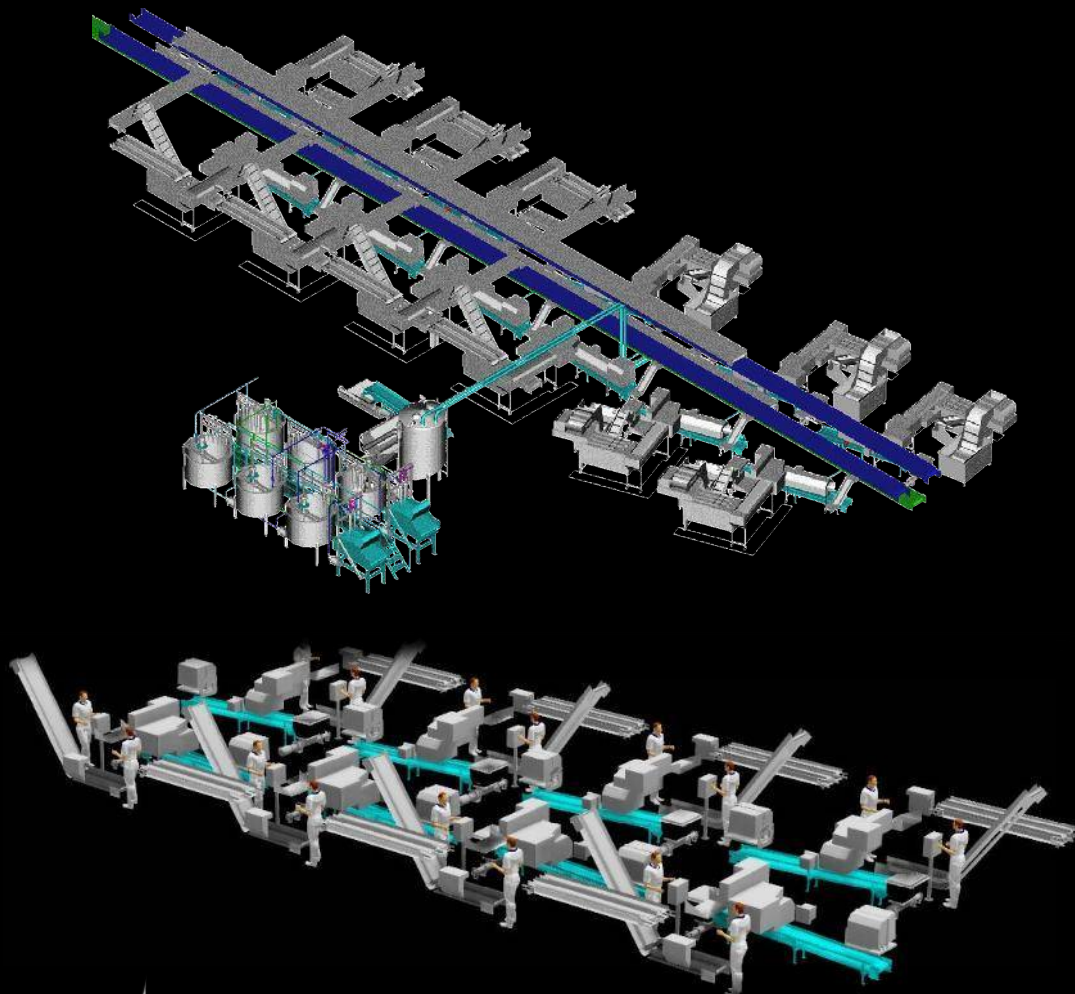
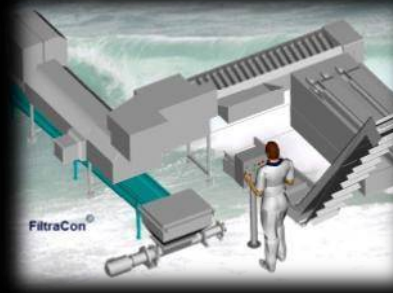
Recover By-Products while they have value

### STANDARD MODULAR SYSTEM

Install under processing machines so the By-Product are separated immediately after processing where we get the best quality - best yield for By-Products and lowest possible dissolved Pollution.

In the SeaFood Industry the FiltraCon® are install under BAADER Filleting - Trimming - Skinning Machines - VMK Filleting Machines Piceses Filleting Machines - Manual Trimming Tables - etc.

Salmon Industry - Filleting Lines - Trimming lines - Skinning Lines Picescutters. Pinboneseparators - Surimi Processing - FiltraWash - FiltraSurimi. Poultry Industry- Meat Industry -Vegetable Industry



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# FiltraCon<sup>®</sup>

27

## FiltraCon<sup>®</sup> Series A 8

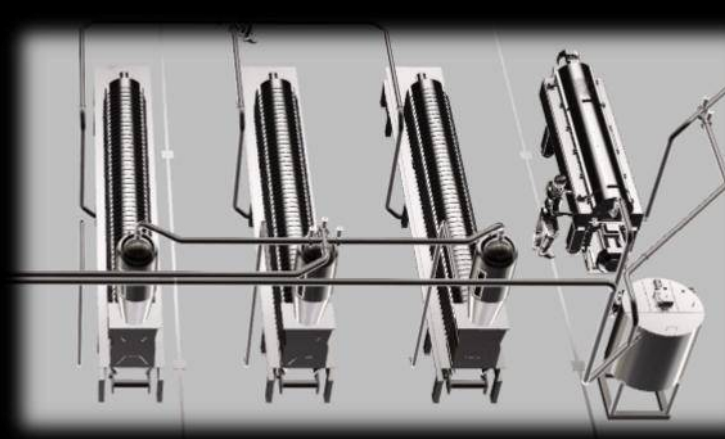
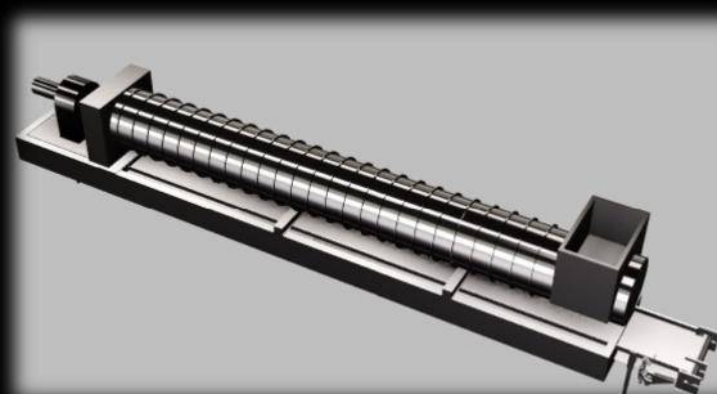
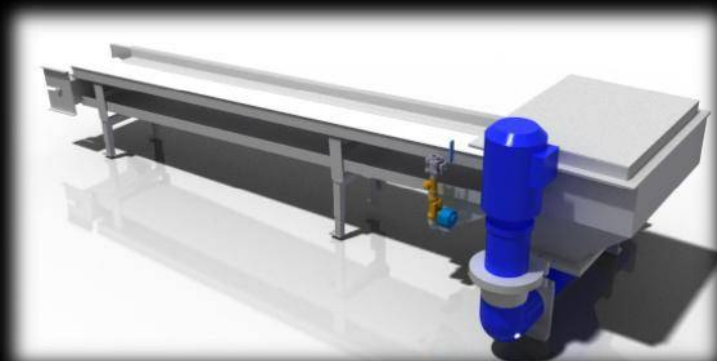
**Filtration System for Processing**  
**μ Filtration- System**

FiltraCon<sup>®</sup> A 8 System for  
**Surimi Screw System**

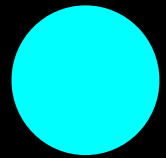
Turn Pollution into Profit

Cleaner areas

Higher yield



# FiltraFlo® Micro Flotation



## Waste Water Treatment for the Industry



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# FiltraFlo® Micro Flotation

30

C

## FiltraFlo®

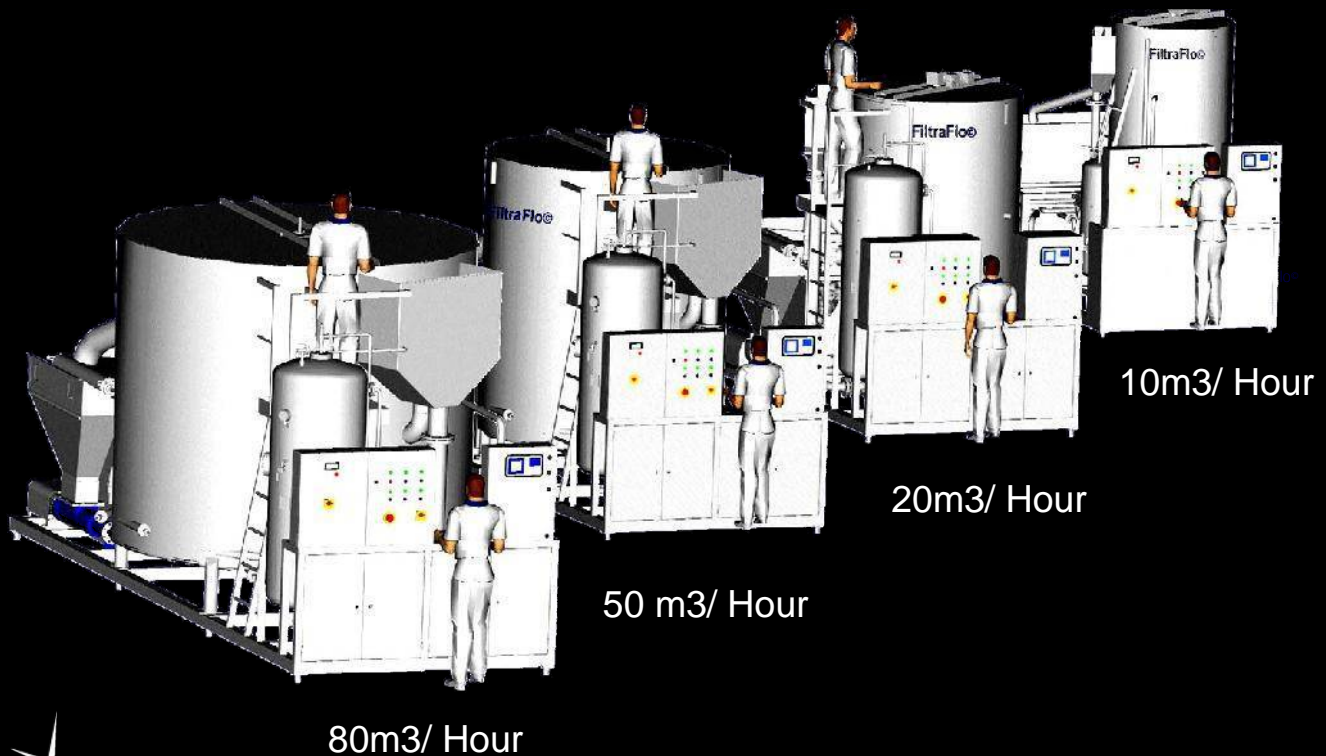
### Automatic FILTRATION- FLOTATION SYSTEM

Filtration and Air Flotation are fundamentals Waste Water treatment. We have developed and constructed a Robust Modular Stand Alone System made in Stainless Steel AISI 316 for INDUSTRIAL WASTE WATER.

FiltraCon® 10 – 20 – 50 or 80 m<sup>3</sup>/Hour can be build up Modularly to the wanted capacity.

All systems include Automatic Computer Control -, Registration , and Automatic Flow proportional Sampling.

The Defuse Air Pressure System is a DANTECH design, as the whole system is a Clean Technology Design from DANTECH for Waste Water Treatment Systems for the FOOD INDUSTRY.



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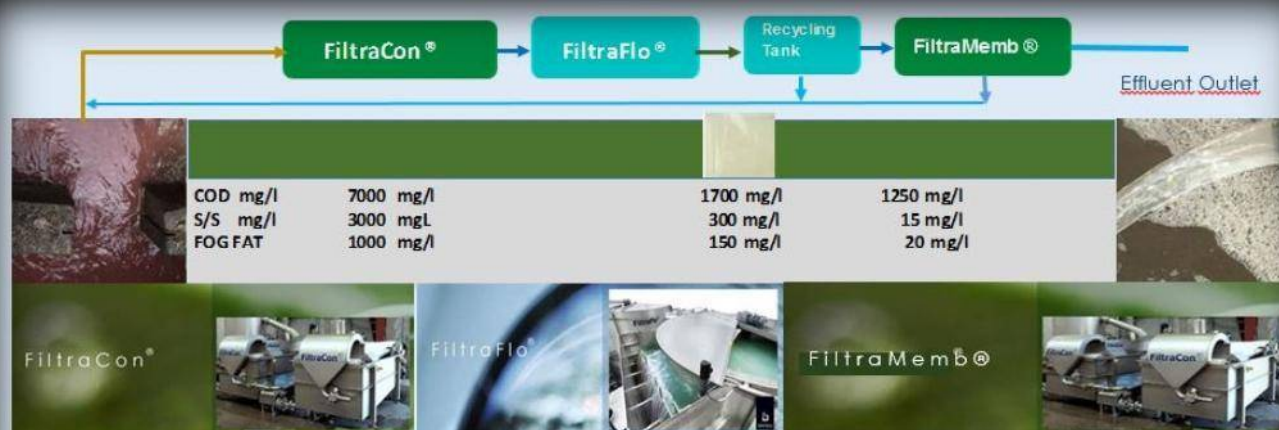
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# FiltraFlo®

Automatic Waste Water Treatment Plant

GREEN SOLUTION - No Chemical Treatment

Stainless Steel AISI 316



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# FiltraMemb®

## Nano Membrane Industrial Filtration System

Complete System on platform L x W x H = 5500 x 5000 x 4000 mm



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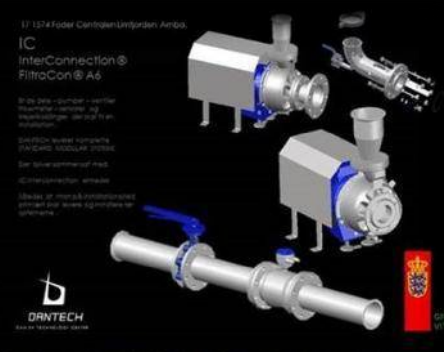
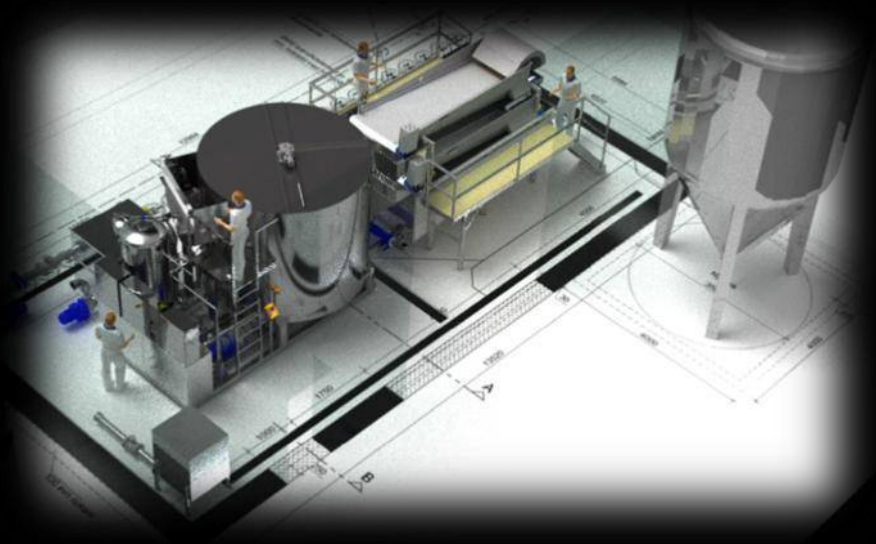
## Nano Filtration

Capacity : 25m<sup>3</sup>/Hr. for each Tank



Green Vitus

Give our costumers the possibility to get an easy local  
Installation - where DANTECH Engineering supervision , running in  
And Training operators .

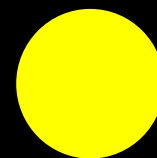


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# RoeSep®

Turn Pollution into Profit



## RoeSep®

Registration No. Vr 2002 00740

- Complete Roe Recover system
- Caviar System



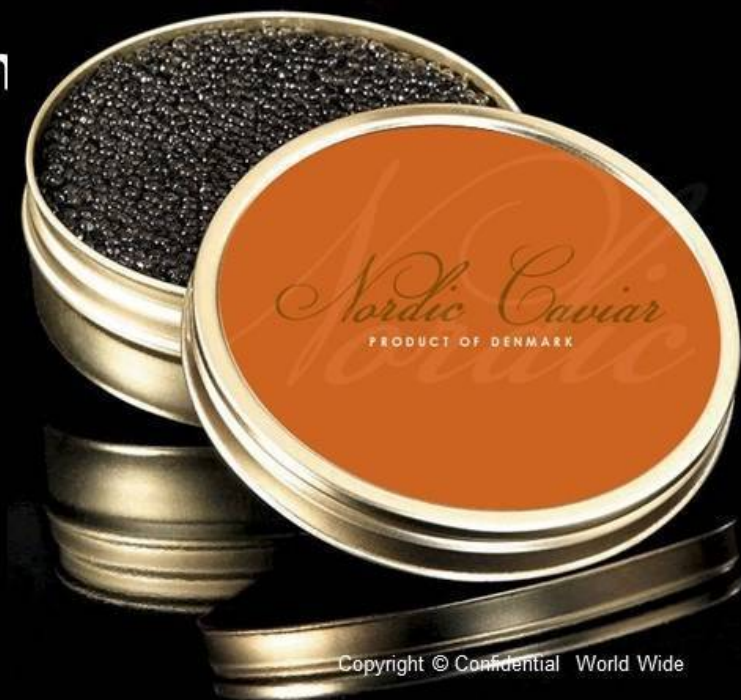
## By Product Pollution Converted to Profit



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Danish Technology Center

No. 2014 – 14 15.04.2014



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# RoeSep®

Turn Pollution into Profit

## Example Herring Processing Plant

Processing 10.000 Ton Herring Roe Season

> Average total Roe Season equal 800 Ton Loose Roe



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# FiltraWash®

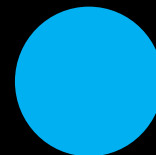
Reduced loss of Myofibrillar Protein

Higher Yield

Lower Water Consumption

Clean Green Effluent Outlet

STANDARD MODULAR SYSTEM Stainless Steel AISI n316 Clean Green Effluent Outlet



## FiltraSurimi®

New Surimi Processing System

Patented System ©

Reduced Loss of Myofibrillar Protein

**Turn Pollution  
into Profit**

## FiltraWash®

**GREEN PROCESSING  
SOLUTION**



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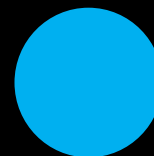


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# FiltraWash®



Reduced loss of Myofibrillar Protein

Higher Yield

Lower Water Consumption

Clean Green Effluent Outlet

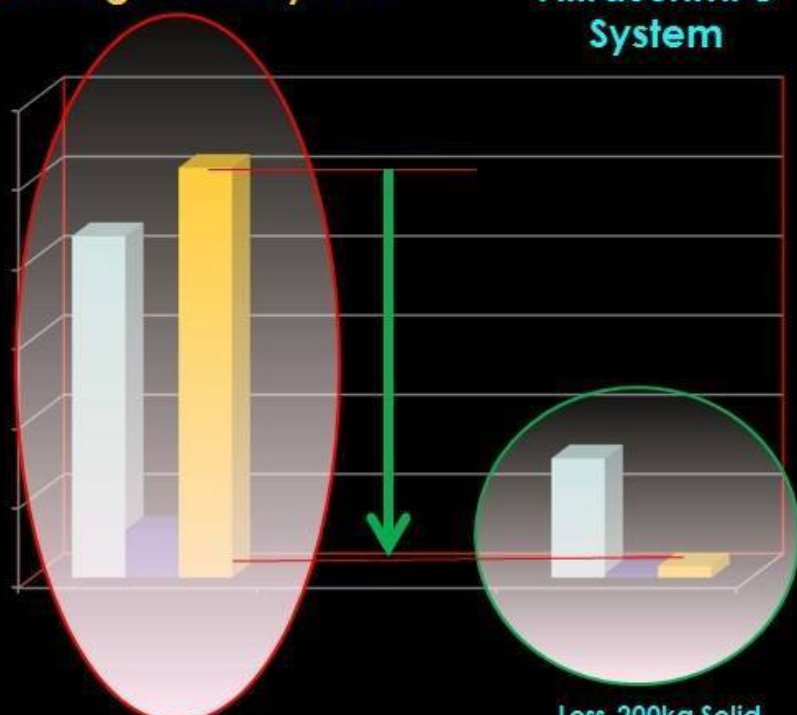
STANDARD MODULAR SYSTEM Stainless Steel AISI 316

## FiltraSurimi®

**GREEN SOLUTION** - Clean Waste Water.

### Existing Surimi System

### FiltraSurimi® System



Loss 7000 kg. Solid  
4000 m3 Dirty Waste Water  
Big Pollution

Loss 200kg Solid  
1500 m3 Clean Waste Water  
No Waste Water Treatment  
Treatment direct on sea

### Example for Reductions

■	Water outlet m3/day
■	S/S mg/l
■	Total outlet kg/day



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### Pollution Converted to Profit

Danish Technology Center

Patent PENDING

METHOD FOR PRODUCING SURIMI WITH  
REDUCED LOSS OF MYOFIBRILLAR PROTEIN



DANTECH



Green Vitus



# FiltraWash ®

Reduced loss of Myofibrillar Protein

Higher Yield

Lower Water Consumption

STANDARD MODULAR SYSTEM Stainless Steel AISI n316 Clean Green Effluent Outlet



## FiltraWash ®

FiltraWash is a new patented solution for washing and/or refining mince or surimi:

- Less water consumption
- Higher yield
- Cleaner end product
- Less pollution



Washed Mince - Refined Mince - Surimi



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