

JIMCO[®]

**UV-C & OZONE
Technology**

JIMCO FLOTATION

ENVIRONMENTALLY AND ECONOMICALLY PRE-CLEANING OF ORGANICALLY LOADED WATER

JIMCO is a specialist in pre-cleaning of organically loaded waste-water without any chemical additives

The Jimco ozone flotation is an appreciated pre-treatment process. The ozone-oxidation flotation system is treating fluctuating organic waste-water loads.

JIMCO OZONE FLOTATION reduces the total bacteria count of the waste-water, all water soluble colouring agents and exchanges stable organic connections (e.g. toxin) into less harmful products.

The system works without any chemicals additives and pressure vessels. The final product is pure sludge without any chemical residuals with a dry substance up to 45%. The Jimco ozone flotation system is significantly reducing operating costs because of reduced waste-water costs to the public waste-water plants.

Compared to biological waste-water stations, Jimco flotation systems require less space, less maintenance and have reduced power consumption.

On top: The system works without any trained personnel.



**REDUCE WASTE-WATER
COSTS BY PRE-CLEANING**

ADVANTAGES OF THE JIMCO OZONE FLOTATION

- ✓ ON/OFF System
- ✓ 24-hours availability - 365 days
- ✓ Low space requirement
- ✓ Less interference than biological waste-water plants
- ✓ Insensitive to different organic load (overload and underload)
- ✓ No special trained personnel necessary
- ✓ No use of chemicals
- ✓ No additional pollution due to over dosage
- ✓ No harmful residuals
- ✓ No/reduced disposal costs for sludge
- ✓ Low maintenance costs
- ✓ Worldwide installed systems
- ✓ PLC-guided system

JIMCO FLOTATION
reduce waste-water
load up to:

- CSB 70-90%
- BSB5 60-80%
- Nges 40-70%
- SS 90-95%
- Fat 90-95%

Saebø Fiskeindustri A/S, Denmark

Plant production	Mackerel products	Power consumption	98 kWh (at a demand factor 0,8 = 78 kWh)
Year of installation	9/2000	Water consumption	0 m ³
Cleaning capacity	30 m ³ /h – 720 m ³ /h / 24 hour	Oxygen consumption	Approx. 30 m ³ /h
Sludge extraction	Approx. 10 –15 m ³ /h / 24 hour	Required Space	L x B x H – 25 x 15 x 6 m
Sludge (solids)/(grease)	42,3%	Buffer capacity	Approx. 1.000 m ³

Cleaning effect			
Analysis parameter	Waste water	Cleaned water	Effect in %
Grease/Oil mg/l	5.000	< 1.000	> 80
COD mg/l	15.200	4.100	73
SS mg/l	3.760	170	95

Data sheet with Jimco flotation system.
Additional project data sheets available on request.

