

Reduced waste water costs by pre-cleaning



A revolutionary ozone technology

Jimco is a specialist of 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 reduce the total bacteria count of the waste water, all water soluble colouring agents and exchange stable organic connections (e.g. toxin) in less harmful products. The system works without any chemicals additives and pressure vessels.

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 do have a reduced power consumption. On top: The system works without any trained personnel.

Jimco Flotation:

Environmentally and economical pre-cleaning of organically loaded water

Without chemicals: Reduced organic load

One data sheet with **Jimco flotation system**

Saeby Fiskeindustri A/S, Denmark

Plant production	Mackerel products	Power consumption	98 kW/h (at a demand factor 0,8 = 78 kW/h)
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

Additional project data sheets on demand!

Reduced waste water costs with Jimco flotation systems

Significantly reduced operating costs

Re-usage of the water for process water, cooling and wash applications etc. possible

Pure sludge without any chemical residuals

Less space requirements

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 (Over- and under load)
- ▶ No special trained personnel necessary
- ▶ No usage of chemicals
- ▶ No additional pollution according to over dosage
- ▶ No harmful residuals
- ▶ No/reduced disposal costs for sludge
- ▶ Low maintenance costs
- ▶ Worldwide installed systems
- ▶ PLC-guided system

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**Jimco flotation
reduce waste water
load up to**

- **CSB** 70-90%
- **BSB 5** 60-80%
- **N_{ges}** 40-70 %
- **SS** 90-95%
- **Fat** 90-95%



On basis of its air cleaning systems, Jimco has received the European Environmental award of 2000 from the European Union and the United Nations Environmental Program