

# ekoflow®

Ekoflow utilises the heat energy in wastewater to provide effective energy recovery, achieving efficiencies of up to 85 %. The return of investment is just a few years. For best performance, plan for the heat exchanger in the earliest project stage possible. Optimizing the dimensions is the key for maximum energy recovery.

## Design

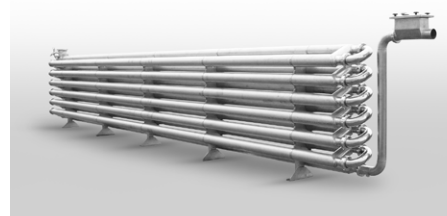
- Twin-tube counterflow heat exchanger
- Compact design
- Acid-resistant stainless steel tubes
- Capacity under own pressure (no pump): approx. 4 litres/sec
- Blackwater/greywater separation leads to more effective energy recovery
- Cleaning hatch helps ensure ease of maintenance
- Available in a variety of sizes and can be specially tailored to requirements. Ekoflow can be dimensioned for other flow ranges and adapted for pump operation, intermediate circuit and/or heat pump

## Maintenance

Ekoflow has a reliable and simple system solution that is easy for the customer to maintain. All models have a hatch providing good access for cleaning. The cleaning process takes around 10 minutes and should be carried out at least once a month.

## Dimensioning and subsequent monitoring

Isakssons provides a calculation program for maximum optimisation and dimensioning, plus measuring equipment for subsequent monitoring of efficiency and energy savings. The measuring equipment is connected to the heat exchanger and provides ongoing information on efficiency levels and energy savings.



## Facts in brief

- Ekoflow is suitable for recovery of heat from wastewater
- Efficiencies of up to 85 %
- Ideally suited to many uses, including industrial, residential, hotels, swimming pools, sports complexes, hospitals, laundrettes, etc.
- ROI is approximately 3 years

**“For a facility with 40 showers, Ekoflow 15:6 delivers annual savings of 560,000 kWh, i.e. approx 280 000 SEK”\***

## Example

### Ekoflow 6:6

**Height:** 752 mm  
**Length:** 6 800 mm  
**Depth:** 370 mm  
**Heat surface:** 7.2 m<sup>2</sup>  
**Weight:** 290 kg  
**Number of tubes:** 6  
**Calculated annual consumption:** 13,600 m<sup>3</sup>  
**Energy savings:** SEK 78,000 per year\*  
**Efficiency:** up to 85 %  
**Cleaning device:** Standard  
**Accessories:** Measuring equipment.  
 Cleaning equipment.

\*) calculated at 0.60 SEK per kWh

### Ekoflow 9:6

**Height:** 980 mm  
**Length:** 6 800 mm  
**Depth:** 370 mm  
**Heat surface:** 11.0 m<sup>2</sup>  
**Weight:** 440 kg  
**Number of tubes:** 9  
**Calculated annual consumption:** 13,600 m<sup>3</sup>  
**Energy savings:** SEK 104,000 per year\*  
**Efficiency:** up to 85 %  
**Cleaning device:** Standard  
**Accessories:** Measuring equipment.  
 Cleaning equipment.

### Ekoflow 14:6

**Height:** 1 360 mm  
**Length:** 6 800 mm  
**Depth:** 370 mm  
**Heat surface:** 16.9 m<sup>2</sup>  
**Weight:** 690 kg  
**Number of tubes:** 14  
**Calculated annual consumption:** 13,600 m<sup>3</sup>  
**Energy savings:** SEK 142,000 per year\*  
**Efficiency:** up to 85 %  
**Cleaning device:** Standard  
**Accessories:** Measuring equipment.  
 Cleaning equipment.

**ISAKSSONS®**

ISAKSSONS  
 GJUTARGATAN 34  
 SE-78170 BORLÄNGE  
 +46 (0)243 20 43 40  
 FAX: +46 (0)243 187 36

WWW.ISAKSSONS.COM

ENVIRONMENTAL ENGINEERING  
 STAINLESS  
 CONSTRUCTIONAL METALWORK