



## Kelvion Exhaust Gas Heat Exchanger

# TAKING ADVANTAGE OF WASTE HEAT



## DESIGN & FUNCTION

This new addition to our product line is a compact heat exchanger made from high-alloyed stainless steel and can handle temperatures up to 550°C. Its compact and modular design makes it extremely versatile and easy to service. Our exhaust gas heat exchanger is designed to recover heat from exhaust gas produced for example by combustion engines used in combined heat and power plants.

The heat exchanger transfers the heat from the exhaust gas to a liquid (water or water-glycol solutions). When heated up, this liquid can be used in central heating systems; for preheating air in the combustion chambers of furnaces and turbines; to dry coal, pulp, wood and other materials as well as for generating electricity with a Rankine process.

## ADVANTAGES

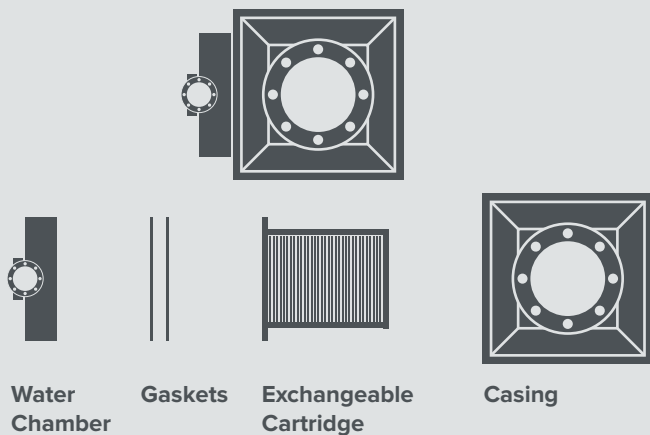
- ▶ **MINIMAL SPACE REQUIRED**
- ▶ **EXTENDED PERFORMANCE RANGE**
- ▶ **MODULAR DESIGN ENABLES HIGH VERSALITY**
- ▶ **PERFORMANCE AND FOULING CHARACTERISTICS APPROVED IN REAL OPERATION**
- ▶ **REPLACEABLE SLOT**
- ▶ **SERVICE FRIENDLY**

## EXHAUST GAS HEAT EXCHANGER STANDARD DESIGN

| STANDARD                                   | TYP 32     | TYP 48     | TYP 64     | TYP 80     | TYP 96     |
|--|------------|------------|------------|------------|------------|
| L / mm                                     | 800        | 1000       | 1000       | 1000       | 1000       |
| D / mm                                     | 618        | 777        | 937        | 1094       | 1120       |
| H / mm                                     | 475        | 635        | 795        | 955        | 1254       |
| Flange, gas side                           | DN200 PN10 | DN250 PN10 | DN350 PN10 | DN450 PN10 | DN600 PN10 |
| Weight for 8 tube rows / kg (incl. water)  | 225        | 320        | 420        | 557        | 711        |
| Weight for 16 tube rows / kg (incl. water) | 239        | 353        | 478        | 646        | 839        |
| Performance range* / kW                    | 82 - 251   | 182 - 577  | 328 - 1030 | 506 - 1587 | 736 - 2304 |

(\*) Fixed parameters: T<sub>Gas,max,in</sub> = 550 °C T<sub>Gas,out</sub> = 150 °C, T<sub>W,in</sub> = 80 °C

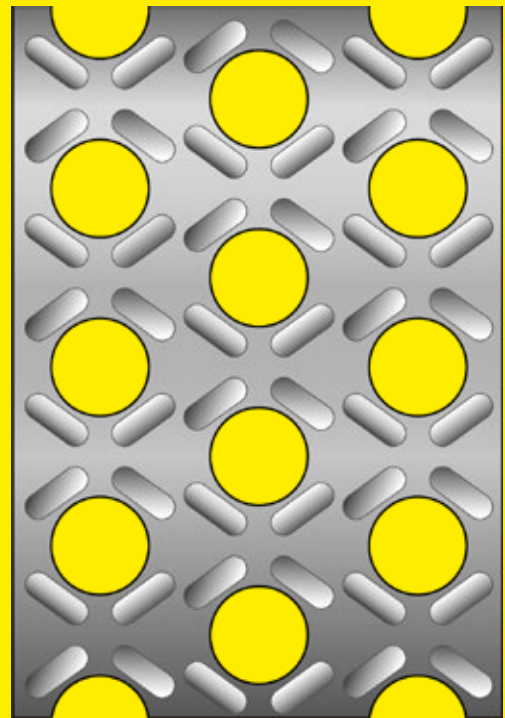
## MODULAR DESIGN



## GAS SIDE FINS

### Stainless Steel 316L (1.4404)

- ▶ Excellent corrosion resistance
- ▶ Average heat exchange
- ▶ High strength



## DESIGN FEATURES

### Stainless Steel

- ▶ Standard series temperature-resistant up to 550°C
- ▶ Corrosion resistant

### Easy Service

- ▶ Easy cleaning & exchange of the heat exchange bundle

## APPLICATIONS



MARINE



TRANSPORTATION



POWER