

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

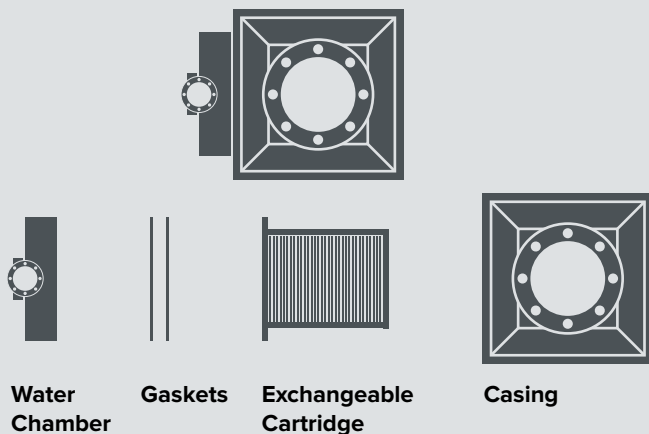
- ▶ **MINIMAL SPACE REQUIRED**
- ▶ **EXTENDED PERFORMANCE RANGE**
- ▶ **MODULAR DESIGN ENABLES HIGH VERSALITY**
- ▶ **PERFORMANCE AND FOULING CHARACTERISTICS APPROVED IN REAL OPERATION**
- ▶ **REPLACEABLE SLOT**
- ▶ **SERVICE FRIENDLY**

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_{Gas,max,in} = 550 °C T_{Gas,out} = 150 °C, T_{W,in} = 80 °C

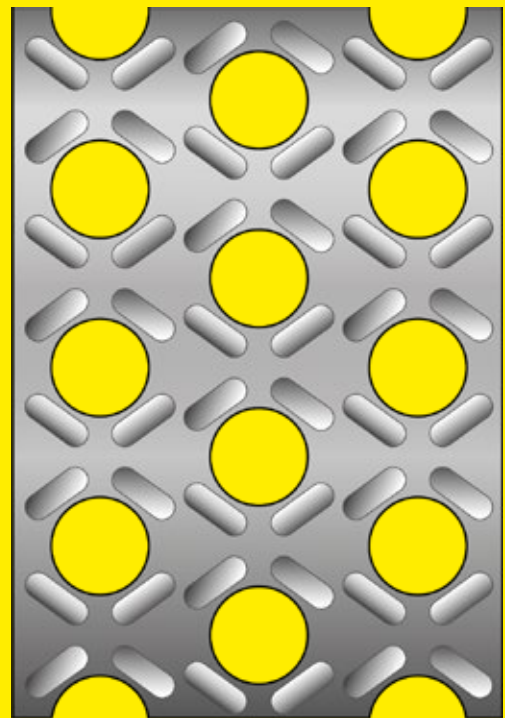
MODULAR DESIGN



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

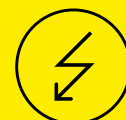
APPLICATIONS



MARINE



TRANSPORTATION



POWER