

UNEX™ G



The UNEX™ G exhaust gas economiser is a water tube, forced circulation steam boiler. The heat transfer surface consists of horizontal, finned (gilled) twin steel tubes.

Steam generating capacity:
0.5-5.0 t/h

Design pressure: 10-24 bar (g)
Steam pressure: Up to 22 bar (g)

Description

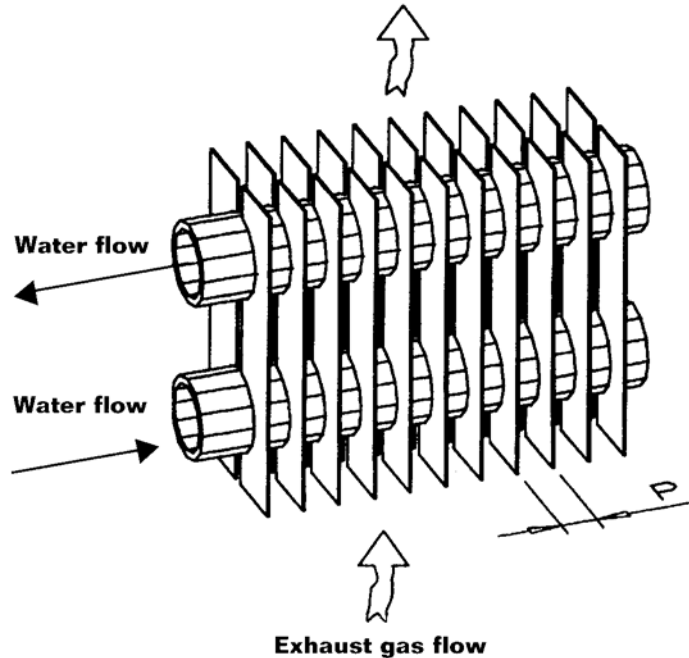
The UNEX™ G exhaust gas economiser is a water tube, forced circulation economiser designed for heat recovery from diesel engine exhaust gas.

The heat transfer surface consists of horizontal, finned (gilled) twin steel tubes preventing vibrations from gas pulsation. The heating surface is covered with gas-tight steel casing.

Special attention is paid to flexible construction. Each twin tube can expand freely in relation to the end plate and other tubes in order to minimise thermal stresses. The heat transfer surface is divided into vertical sections facilitating tube repair work.

Economisers are arranged with horizontal spaces for steam soot-blowers at certain intervals. Vertical and straight exhaust gas passage with adequate spacing between the fins decreases soot build-up on surfaces. The spacing is determined depending on the type of the engine and the required heat transfer surface area. The heating surface dimensions are laid out to maintain sufficient gas velocity giving the best self-cleaning effect within the design limits.

UNEX™ G can be cleaned easily by means of a number of steam sootblowers and a fixed, built-in water washing device.



Sketch of typical UNEX™ G economiser.

Each boiler is tailor-made to suit the engine data.

The water-washing device consists of water spraying tube banks. On request, other systems such as fully automatic sootblowing systems or equipment for monitoring soot accumulation are available.

Features

- Compact system
- Vibration- and resonance-free construction
- Straight, vertical gas passage with adequate spacing of fins for minimum soot build-up.
- Steam sootblowers and built-in water washing device

- Sectional construction for easy tube replacement

Standard scope of supply

- The boiler is supplied as a unit with connections, exhaust gas cones with counter-flanges, lifting and fastening lugs and insulation with sheeting.
- Valves and fittings for the boiler including manual steam soot-blowers and fixed water washing device.
- Bolted hatches for maintenance and easy access inspection doors.
- Spare parts according to class.

Accessories (Optional)

- Circulation water pump
- Dumping condenser
- Automatic dumping valve
- Temperature sensors
- Differential pressure meters
- Automatic steam, pressure air or sound soot cleaning system

