



HTO

THERMAL OIL BOILER
SERIES



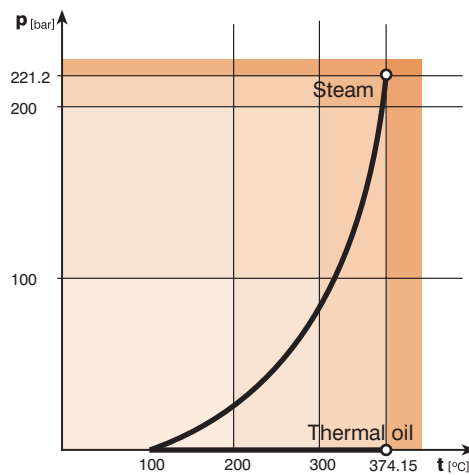
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THERMAL OIL BOILER SERIES



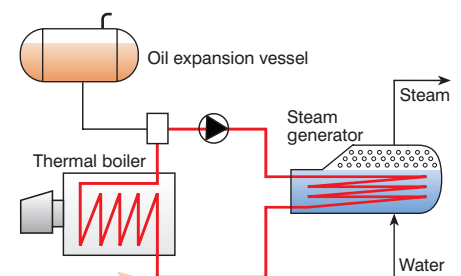
THE CONCEPT

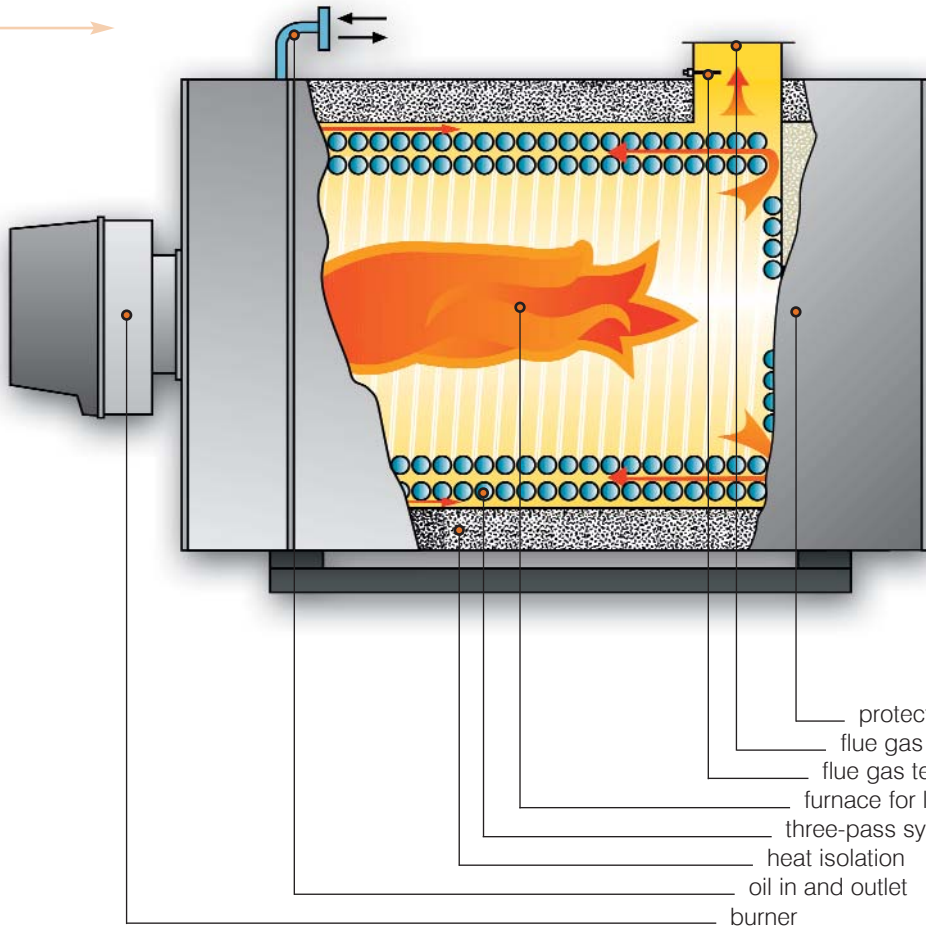
Boilers of organic heat transfer medium (heat transfer oil) - also called thermal oil heaters - are widely used for supplying heat for technologies up to 350 °C under atmospheric pressure. In steam systems this relatively high temperature would be secured only under 165 bar (16.5 MPa).



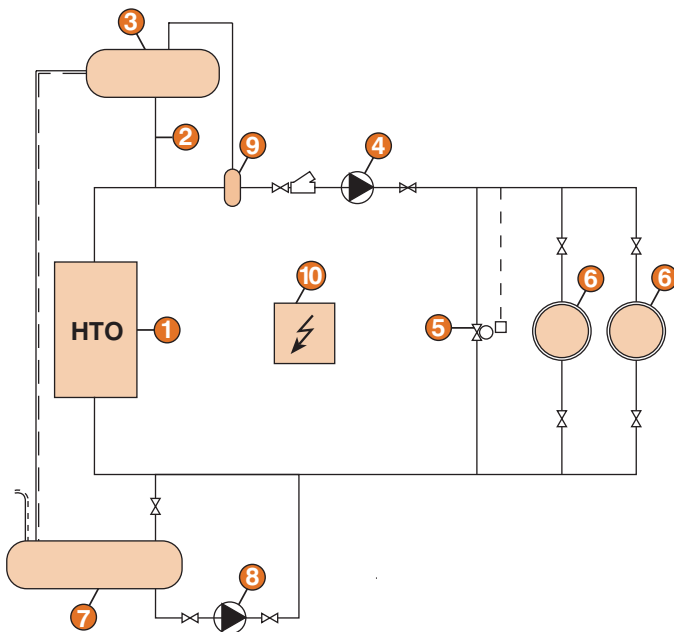
ADVANTAGES

- **POSSIBILITY OF OPEN AIR USAGE**, because of the non - freezing heat transfer medium
- The **OVERPRESSURE SECURITY** of the system is guaranteed by the expansion - tube and tank
- **NO NEED OF EXPENSIVE WATER TREATMENT SYSTEM**
- **NO CONDENSATION CIRCUIT AND NO LOSS BECAUSE OF CONDENSATION**
- **AUTOMATED OPERATION**
- **FAST TO START UP**
- **ECONOMICAL** usage for heating and cooling purposes
- **NO CORROSION**
- **EXACT TEMPERATURE ADJUSTMENT WITHIN $\pm 0,5$ °C**
- One unit is capable to serve **SEVERAL USERS** on **DIFFERENT TEMPERATURE** levels at the same time
- **UNMONITORED STEAM PRODUCTION** with the help of a thermal oil heated steam generator





control unit



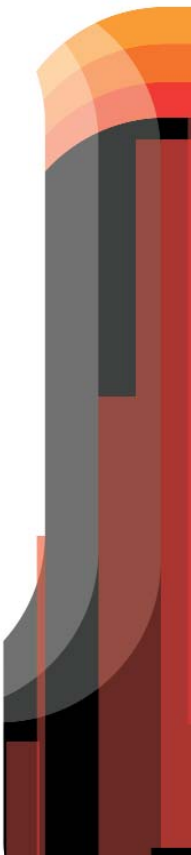
MAIN PARTS OF THE SYSTEM

1. Heat producer
2. Expansion pipeline
3. Expansion tank
4. Circulation pump
5. Pressure control valve
6. Heat users
7. Oil-collection tank
8. Feedpump
9. Separator
10. Control unit

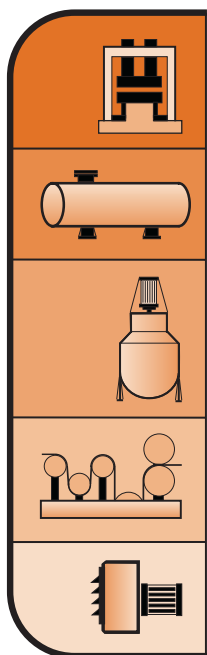
SCOPE OF SUPPLY

Thermal oil boiler in pendant or horizontal construction mode with oil or gas firing

- OPTIONS:**
- Open or closed expansion tank
 - Oil-collection tank
 - Installed in a container



COMMONLY USED FOR



Bitumen- and tar industry

Container heating
Fuel oil container heating
Tar production
Isolation material production
Asphalt production
Bitumen processing
Roadwork equipment

Chemical industry

Autoclaves
Mixers
Reactors
Heating of dryers and
Furnaces

Rubber- and plastic industry

Beetling engine
Vulcanisation
Heating of presses

Wood - working industry

Heating of dryers
Chipboard and plywood production
Heating of presses
Impregnating machines
Heating of steamers

Textile industry

Dryers
Beetling engine
Fixatives

Paper industry

Lamination
Dryers (drums)
Beetling engine
Corrugated cardboards

Construction industry

Heating of silos
Concrete heat treatment

Food industry

Dryers (milk powder)
Heating of dehydrators and
Ovens

Industrial heating

Heating of halls and
Warehouses

HTO SERIES

TYPE:	HTO-100	.....	HTO-4000
Nominal output: (kW)	100	....	4000
Circulated flow: (m ³ /h)	6	....	348
Oil capacity: (m ³)	0.1	....	2.75
Working weight: (kg)	600	....	13620
Design pressure: (bar)	10		
Max. oil outlet temperature: (°C)	300 - 350		
Oil temperature drop: (°C)	20 - 30		

We can supply you with any given boiler within the stated output range.

DESIGNED BY:
innoterm energetics

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