Caldaia a olio diatermico a combustibile liquido o gassoso

Liquid and Gas Fired Thermal Oil Boiler



Potenza:	1 720 000–6 000 000 kcal/h
Temp. di esercizio:	270 °C
Combustibile:	Gas naturale, olio combustibile, GNL, GPL

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Caratteristiche

Queste caldaie riscaldano olio diatermico in un circuito chiuso in pressione e funzionano a gas naturale o con combustibili liquidi. La fiamma e i fumi caldi percorrono condotti appositi e cedono calore all'olio, che circola sul lato opposto delle superfici di scambio.

Principio di funzionamento

L'olio circola nei tubi, assorbe il calore del bruciatore e raggiunge la temperatura richiesta, ad esempio 270 °C o più.

Una pompa di circolazione invia l'olio alle utenze di processo: reattori, essiccatori, caldaie o riscaldatori.

Dopo avere ceduto calore al processo, l'olio si raffredda e torna alla caldaia. Viene riscaldato di nuovo e circola in un circuito chiuso, mantenendo la temperatura di processo.

Capacity Range:	1,720,000–6,000,000 kcal/h
Operating Temperature:	270 °C
Fuel:	Natural gas, fuel-oil, LNG, LPG

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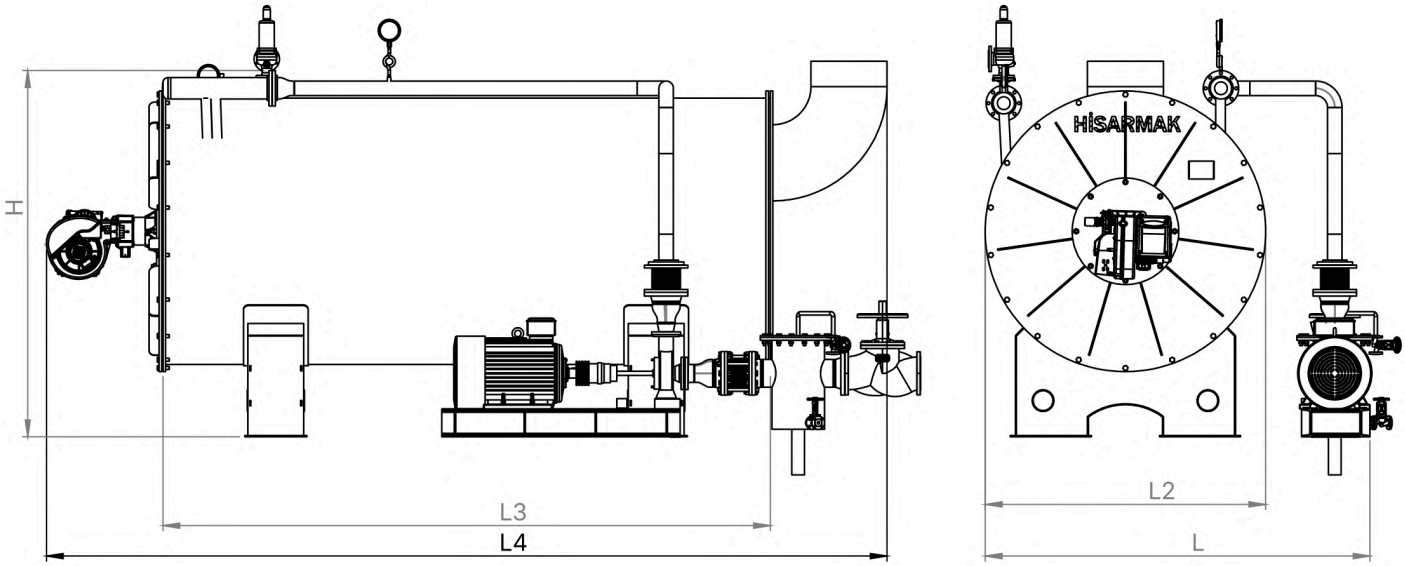
Features

These are closed pressurized vessels that operate with natural gas or liquid fuels. On one side, thermal oil circulates as the heat-absorbing fluid, and on the other side, hot flue gases generated from fuel combustion travel through specially designed pathways, transferring their heat.

Working Principle

The heat transfer oil flowing through the pipes inside the boiler absorbs the high temperature produced by the burner. The oil is heated to the required operating temperature (up to 270°C or higher). The heated oil is circulated throughout the system with the help of a circulation pump. This high-temperature oil is directed to the process equipment (reactor, dryer, boiler, heater, etc.) that requires heat.

Once it reaches the process equipment, the hot oil transfers its heat to the relevant process. During this transfer, the oil cools down slightly and returns. The relatively cooler oil coming from the process equipment is directed back to the boiler inlet. In the boiler, the oil is reheated and the cycle continues in a closed-loop system.



DATI TECNICI DELLA CALDAIA A OLIO DIATERMICO THERMAL OIL BOILER TECHNICAL INFORMATION									
Tipo Type	Potenza Capacity	Potenza Capacity	Temp. olio Oil Temp. Max.	Pressione di esercizio Working Pressure	Ingresso / uscita olio Oil Inlet/Outlet	Dimensioni Dimension mm.			Volume olio Oil Volume
	Kcal/h	Kw	°C	Bar	DN	D	L	H	Lt.
HTO 1500	**1.500.000**	**1744**	**280**	**6**	**125**	**1850**	**3900**	**2270**	**850**
HTO 2000	**2.000.000**	**2325**	**280**	**6**	**150**	**2150**	**4250**	**2580**	**1200**
HTO 2500	**2.500.000**	**2907**	**280**	**6**	**150**	**2350**	**4500**	**2750**	**1750**
HTO 3000	**3.000.000**	**3488**	**280**	**6**	**200**	**2400**	**4750**	**2800**	**2000**
HTO 4000	**4.000.000**	**4651**	**280**	**6**	**200**	**2400**	**5800**	**2500**	**2900**
HTO 5000	**5.000.000**	**5813**	**280**	**6**	**200**	**2500**	**6400**	**2700**	**3900**
HTO 6000	**6.000.000**	**6976**	**280**	**6**	**200**	**2600**	**7100**	**2900**	**5000**
HTO 7000	**7.000.000**	**8139**	**280**	**6**	**200**	**2750**	**8100**	**3100**	**6100**