

inplan

established 1968



Thermal Oil Plants

Top quality and sophisticated technology provide solutions for individual heating problems.

inPlan Thermal Oil Boiler alternatively of horizontal or vertical design

**Capacity: 58-16.000 kW
(50.000-13.750.000 kcal/h)**

inPlan Thermal Oil Boilers are automatically operating forced flow heaters with a temperature range up to 400 °C, depending on the available heat transfer media.

inPlan Thermal oil Boilers are fitted as standard supply with all commercially available furnaces for fluid or gaseous type fuels. Depending on the range of output and the operational economy, the furnaces are supplied with 2-stage, sliding 2-stage or modulating control.

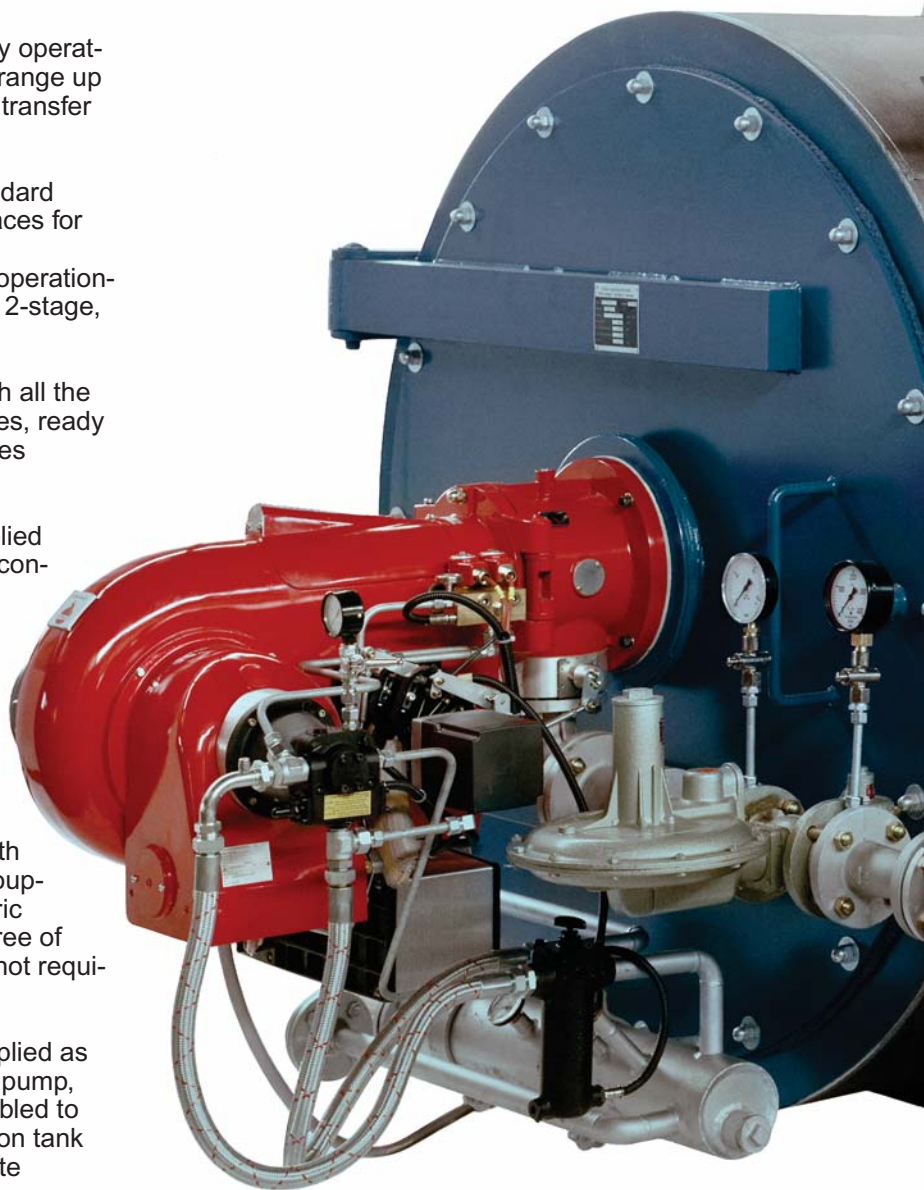
inPlan Thermal Oil Boilers are provided with all the necessary control and monitoring appliances, ready wired and fitted with multi-core control cables (approx. 10 m) including multi-pin plugs.

inPlan Thermal Oil Boilers are always supplied with a separate control cabinet, which has connecting sockets for the multi-pin plugs. The instrumentation and wiring of the control cabinet is of meticulous execution and in accordance with the VDE directives. Since boiler and control cabinet form a unit ready for plug connections, all that is required at the installation site is the mains connection.

inPlan Thermal Oil Boilers are equipped with spiral casing circulating pumps including coupling, coupling shields, base plate and electric motor. The circulating pumps are virtually free of maintenance. Cooling of the shaft seals is not required.

inPlan Thermal Oil Boilers can also be supplied as packaged units, whereby boiler, circulating pump, shut-off valves and dirt traps are preassembled to give a compact, ready-to-use unit. Expansion tank and discharge tank are supplied for separate mounting. Thus assembly times on site are considerably reduced.

inPlan Thermal Oil Boilers of horizontal design have a front door on hinges which can be swivelled out, providing easy access to the combustion chambers for any cleaning and maintenance work that may be necessary.



inPlan Thermal Oil Boilers have been proven for many years by successful installation in more than 30 countries.

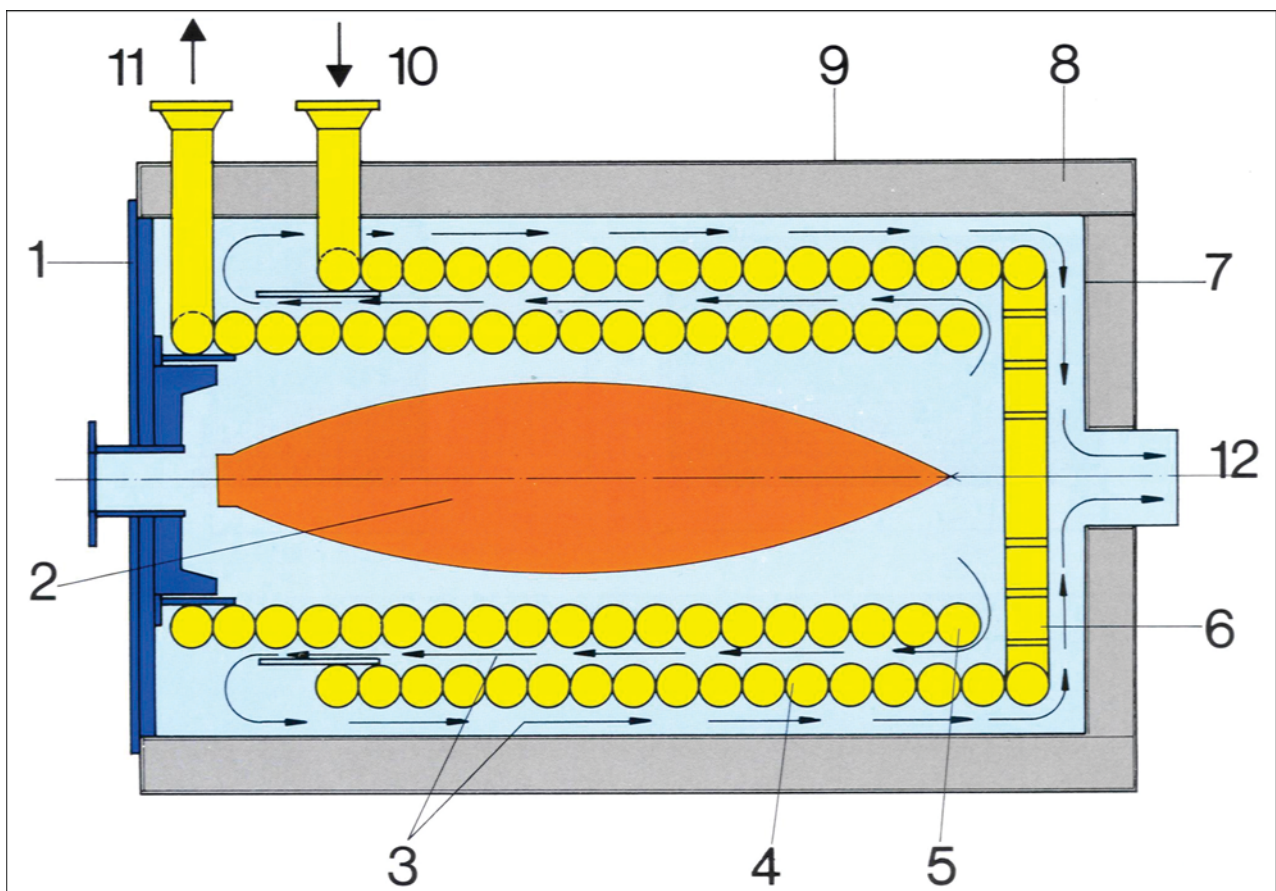
inPlan Thermal Oil Boilers are economical and reliable.



inPlan Thermal Oil Boiler with natural gas/heavy
fuel oil burner, circulating pump, control cabinet
Output: 1163 kW (1.000.000 kcal/h) max. outward
flow temperature: 300 °C

Up-to-date technology guarantees optimum efficiency.

Sound quality – sophisticated technology are the fundamental principles of inPlan. By using tried and tested materials inPlan guarantees a long service life.



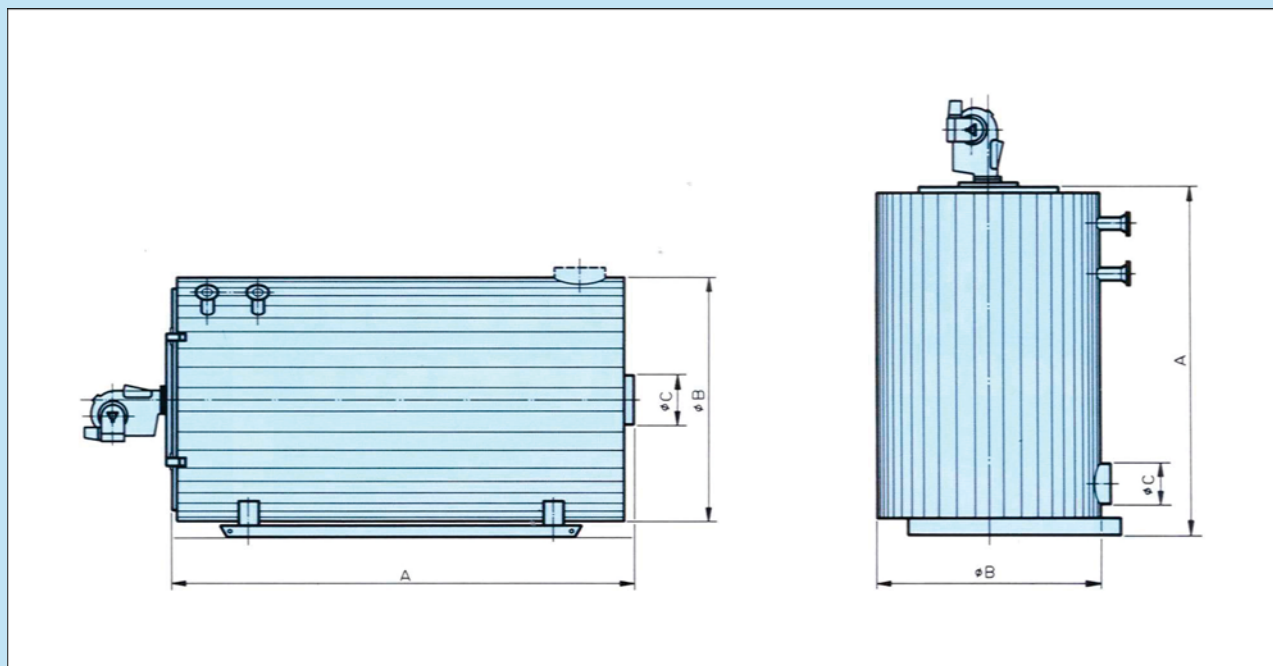
Design Features

1. Swivelling front door with assembly flange for burner attachment.
2. Combustion chamber of generous dimension, built to suit the various types of fuel.
3. Second and third flue gas pass designed for optimum heat transmission.
4. Convection section – pipe coil of special high grade steel.
5. Radiation section – pipe coil of special high grade steel.
6. Rear panel through which heat transfer medium flows, designed to close off the combustion chamber.
7. Gastight welded boiler shell made of steel.
8. High grade heat insulation with mineral fibre.
9. Exterior insulation jacket made from galvanised sheet steel or aluminium sheet.
10. Heat transfer medium inlet.
11. Heat transfer medium outlet.
12. Flue gas discharge.

Manufacturing precision- Operational safety.

inPlan-Thermal Oil Boiler

(difference in temperature between outward flow and return flow 20 °C)



Main dimensions

H = horizontal model

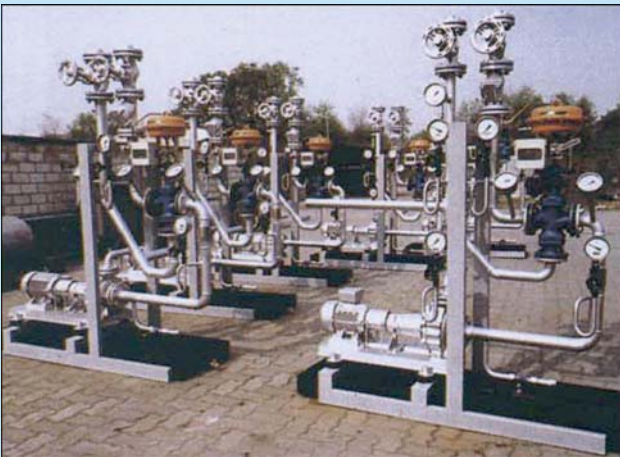
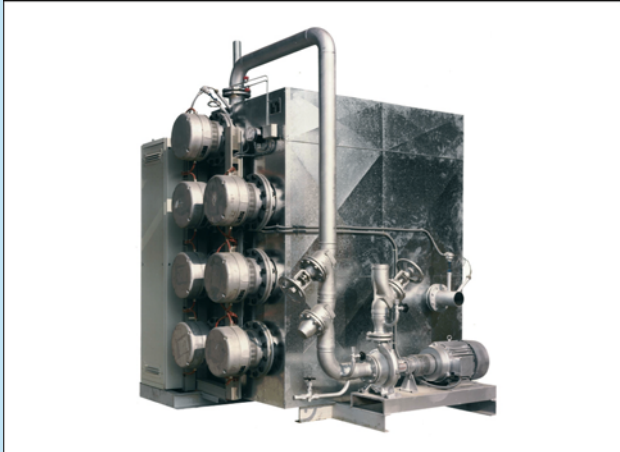
V = vertical model

Subject to design modifications

TYPE	CAPACITY kcal/h x 1000	CAPACITY kW	A mm	ØB mm	ØC mm	TYPE	A mm	ØB mm	ØC mm
H 600	600	698	2545	1514	260	V 600	2760	1514	260
H 800	800	930	2895	1670	300	V 800	3120	1670	300
H 1000	1000	1163	3095	1660	300	V 1000	3320	1660	300
H 1250	1250	1453	3570	1898	350	V 1250	4031	2008	400
H 1500	1500	1744	3745	2008	400	V 1500	4031	2008	400
H 1600	1600	1860	3790	2040	400	V 1600	4102	2040	400
H 1800	1800	2093	4055	2047	450	V 1800	4317	2047	450
H 2000	2000	2326	4165	2077	450	V 2000	4490	2077	450
H 2500	2500	2907	4535	2125	500	V 2500	4920	2125	500
H 3000	3000	3488	5042	2197	550	V 3000	5532	2197	550
H 3500	3500	4070	5425	2270	600	V 3500	5900	2270	600
H 4000	4000	4652	5795	2640	700				
H 5000	5000	5814	3695	2840	750				
H 6000	6000	6976	6990	3000	800				
H 8000	8000	9304							

Larger outputs and models available on request

**Comprehensive
product range for
highest technical
demands.**



Electrically heated inplan Thermal Oil Boiler, 700 kW, 380 volts, 50 cycles, with 7 heating cartridges 100 kW each, circulating pump, control cabinet, max. outward flow temperature 300 °C.

Prefabricated control stations for drying ranges with electropneumatic control valves, circulating pumps, shut-off valves, dirt traps.

inPlan – plans – designs – assemblies

- Thermal-Oil Boiler complete with expansion tanks and discharge tanks.
- Steel chimneys in various designs and materials.
- Indirectly heated steam generators and hot water heaters.
- Heat exchangers for heat recovery plants.
- Pipe systems with fittings and control apparatus.
- Fuel supply systems.

inPlan-ingenieurtechnik

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