



THERMAL OIL HEATERS

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THERMAL OIL HEATERS

We produce direct fired heaters for thermal oil with capacity from 150,000 to 7,000,000 kcal/h and electric heaters for potentials from 50 to 500 kW.

Various options are available such as one or more circulation pumps connected to the heater, burners for various fuels, combustion air preheaters, horizontal and vertical configurations.

All heaters are designed, tested, built on the basis of the latest standards and can be certified according to PED, ASME, naval or other regulations depending on the country of installation.



THERMAL OIL HEATERS

TH MODEL

Thermal oil heaters in horizontal and vertical versions for temperatures up to 320 °C (special versions up to 400°C)

The **TH** heaters have been specially designed for maximum efficiency. On these boilers, you can install any type of market-based burner, thus facilitating assistance in every area at the lowest cost.

They are characterized by:

- Small dimensions
- Quick startup
- Maximum operational safety
- Minimum quantity of refractory material
- Tubular bundle with one or more coiled spiral, balanced and well dimensioned in order to prevent cracking phenomena
- Large volume combustion chamber

Made in both horizontal and vertical versions, to better accommodate customer space requirements.

The version / AR includes a smoke / air exchanger that preheats the combustion air at the expense of the residual heat of the flue gases, improving even further the efficiency of the equipment.



PRODUCT

- Thermal oil heaters, horizontal or vertical

TYPOLOGY

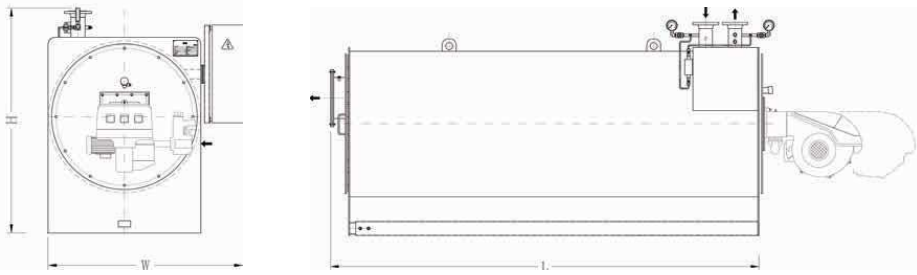
- Coil • 3 passes • Horizontal or vertical • For thermal oil

CAPACITY

- 150,000 kcal/h - 7,000,000 kcal/h

TECHNICAL DATA THERMAL OIL HEATERS					TH HORIZONTAL				
TYPE		TH 150	TH 250	TH 350	TH 450	TH 550	TH 800	TH 1000	TH 1250
Capacity	kcal/h	150,000	250,000	350,000	450,000	550,000	800,000	1,000,000	1,250,000
	kW	174	291	407	523	640	930	1,163	1,454
Efficiency (oil 140-180°C)	% ±1	88.0	88.0	89.0	89.0	88.5	89.0	89.5	89.5
Efficiency (oil 240-280°C)	% ±1	86.0	86.0	86.0	86.0	86.0	86.5	86.0	86.5
Oil content	liters	65	92	98	114	147	254	254	453
Oil pressure drop 240-280°C	m oil	28	21	14	23	16	14	22	11
Furnace pressure drop	mm H2O	30	35	40	45	60	80	80	85
Installation length (burner excluded)	L - mm	1,700	2,400	2,400	2,400	2,400	3,350	3,350	3,750
Installation length (burner included)	L1 - mm	2,000	3,000	3,000	3,000	3,000	4,150	4,150	4,600
Installation width (cabinet included)	W - mm	1,300	1,400	1,400	1,400	1,400	1,650	1,650	1,700
Installation height	H - mm	1,600	1,600	1,600	1,600	1,600	1,750	1,750	1,850
Empty weight (burner excluded)	kg	700	1,100	1,100	1,200	1,850	1,950	1,950	2,800

TECHNICAL DATA THERMAL OIL HEATERS					TH HORIZONTAL				
TYPE		TH 1500	TH 2000	TH 2500	TH 3000	TH 4000	TH 5000	TH 6000	TH 7000
Capacity	kcal/h	1,500,000	2,000,000	2,500,000	3,000,000	4,000,000	5,000,000	6,000,000	7,000,000
	kW	1,745	2,326	2,908	3,489	4,652	5,815	6,978	8,141
Efficiency (oil 140-180°C)	% ±1	89.5	89.5	89.5	90.0	89.5	89.5	89.5	89.0
Efficiency (oil 240-280°C)	% ±1	85.0	85.0	85.0	86.0	86.0	86.5	86.0	86.0
Oil content	liters	518	767	1,314	1,520	1,989	2,833	3,127	3,350
Oil pressure drop 240-280°C	m oil	17	19	19	30	28	29	26	30
Furnace pressure drop	mm H2O	90	90	100	100	110	120	120	130
Installation length (burner excluded)	L - mm	4,000	4,300	4,700	5,300	6,200	6,300	7,360	7,850
Installation length (burner included)	L1 - mm	4,800	5,400	5,650	6,400	7,500	8,150	9,250	9,800
Installation width (cabinet included)	W - mm	1,700	2,200	2,400	2,400	2,350	2,400	2,770	2,750
Installation height	H - mm	2,000	2,200	2,650	2,400	2,650	2,910	2,950	3,200
Empty weight (burner excluded)	kg	3,200	5,000	6,500	7,100	8,500	12,600	13,500	14,200


TECHNICAL DATA THERMAL OIL HEATERS
TH VERTICAL

TYPE		TH/V 150	TH/V 250	TH/V 350	TH/V 450	TH/V 550	TH/V 800	TH/V 1000	TH/V 1250
Capacity	kcal/h	150,000	250,000	350,000	450,000	550,000	800,000	1,000,000	1,250,000
	kW	174	291	407	523	640	930	1,163	1,454
Efficiency (oil 140-180°C)	% ±1	88.0	88.0	89.0	89.0	88.5	89.0	89.5	89.5
Efficiency (oil 240-280°C)	% ±1	86.0	86.0	86.0	86.0	86.0	86.5	86.0	86.5
Oil content	liters	65	92	98	114	147	254	254	453
Oil pressure drop 240-280°C	m oil	28	21	14	23	16	14	22	11
Furnace pressure drop	mm H2O	30	35	40	45	60	80	80	85
Installation length (burner excluded)	H - mm	1,700	2,400	2,400	2,400	2,400	3,350	3,350	3,750
Installation length (burner included)	H1 - mm	2,000	3,000	3,000	3,000	3,000	4,150	4,150	4,600
Installation width (cabinet included)	W - mm	1,300	1,400	1,400	1,400	1,400	1,650	1,650	1,700
Installation height	L - mm	1,200	1,300	1,300	1,300	1,300	1,550	1,550	1,600
Empty weight (burner excluded)	kg	700	1,100	1,100	1,200	1,850	1,950	1,950	2,800

TECHNICAL DATA THERMAL OIL HEATERS
TH VERTICAL

TYPE		TH/V 1500	TH/V 2000	TH/V 2500	TH/V 3000	TH/V 4000	TH/V 5000	TH/V 6000	TH/V 7000
Capacity	kcal/h	1,500,000	2,000,000	2,500,000	3,000,000	4,000,000	5,000,000	6,000,000	7,000,000
	kW	1,745	2,326	2,908	3,489	4,652	5,815	6,978	8,141
Efficiency (oil 140-180°C)	% ±1	89.5	89.5	89.5	90.0	89.5	89.5	89.5	89.0
Efficiency (oil 240-280°C)	% ±1	85.0	85.0	85.0	86.0	86.0	86.5	86.0	86.0
Oil content	liters	518	767	1,314	1,520	1,989	2,833	3,127	3,350
Oil pressure drop 240-280°C	m oil	17	19	19	30	28	29	26	30
Furnace pressure drop	mm H2O	90	90	100	100	110	120	120	130
Installation length (burner excluded)	H - mm	4,000	4,300	4,700	5,300	6,200	6,300	7,360	7,850
Installation length (burner included)	H1 - mm	4,800	5,400	5,650	6,400	7,500	8,150	9,250	9,800
Installation width (cabinet included)	W - mm	1,700	2,200	2,400	2,400	2,350	2,400	2,770	2,750
Installation height	L - mm	1,600	2,100	2,300	2,300	2,250	2,300	2,670	2,650
Empty weight (burner excluded)	kg	3,200	5,000	6,500	7,100	8,500	12,600	13,500	14,200

