

# THERMAL OIL HEATERS



**ENEVA Enerji Sistemleri Muhendislik Sanayi ve Ticaret Ltd. Sti.**

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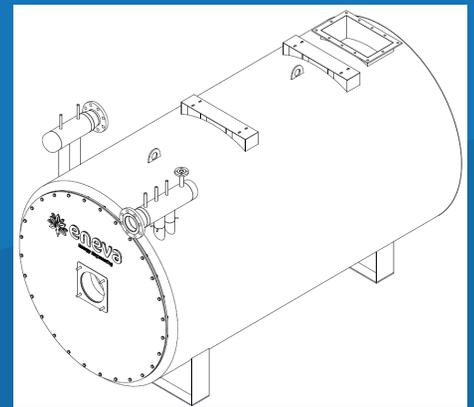
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# THERMAL OIL HEATERS

- Thermal oil (fluid) heaters are used in industries which need high temperature heat at low operating pressures. They are capable of producing oil outlet temperatures up to 400 °C depending on the fluid type used (organic or synthetic).
- ENEVA thermal oil heaters are designed carefully considering oil side pressure drop and max. oil film temperature which determines oil life and system thermal efficiency.
- ENEVA can supply complete thermal oil heating plants including heater, expansion and sump tanks, inter piping, stacks, economizer, recuperator and automation system.
- ENEVA can also design and produce the heaters with gas fuels, liquid fuels and solid fuels such as coal and biomass depending on the customer needs. Thermal oil heaters consist of two concentric coils which are inside of outer shell. Thanks to circular and smooth flow path inside the coils, oil does not stop during its flow. This provides proper cooling of tubes and optimised pressure drop in case of circulation pump electrical consumption.
- ENEVA oil heaters are designed up to %95 thermal efficiency using air preheaters (recuperators).
- After manufacturing all heaters are pressure tested, painted and heat insulated.



## PRODUCT SPECIFICATION

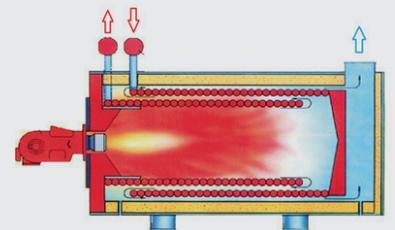
- Vertical or horizontal options according to space requirements
- Design and fabrication capability up to 10 MW thermal capacity and 350 °C Oil temperature
- Optimized oil max. film temperature and long oil life
- Optimized back pressures and compact heat transfer surface
- Design acc. to EN 12952 and 2014/68 EU PED CE certification
- Oil side equipments & instrumentation accordance with DIN4754 norm
- Minimal and high quality refractory applications for uncooled hot surfaces
- Minimum oil flow control with orifice flow element and flow switch

## DELIVERY OPTIONS

- Armature, pump unit and instrumentation according to DIN 4754
- Flow meters and heat computers for capacity and efficiency monitoring
- User friendly design for coil removal and maintenance
- Flue gas economizers and air heaters up to request

## COMMON APPLICATIONS

- Packaging and plastics plants
- Oil refineries
- Chemical plants
- Asphalt plants
- Laminating
- Textile
- Sludge drying
- Polyester and film manufacturers



## PRELIMINARY DIMENSIONS

MODEL, ENO		200	300	500	800	1.000	1.500	2.000	3.000	4.000	5.000	6.000	8.000	10.000
<b>Thermal Output</b>	kW	233	349	581	930	1.163	1.744	2.326	3.488	4.651	5.814	6.977	9.302	11.628
<b>Lenght</b>	mm	1.750	2.100	2.400	2.900	3.100	4.000	4.400	5.200	5.900	6.600	7.100	8.300	8.800
<b>Width</b>	mm	1.140	1.260	1.510	1.710	2.060	2.280	2.430	2.790	3.040	3.190	3.540	3.740	4.140
<b>Height</b>	mm	1.390	1.510	1.760	1.960	1.810	2.030	2.180	2.540	2.790	2.940	3.290	3.490	3.890
<b>Oil Volume</b>	lt	100	210	440	670	810	1.570	1.990	3.770	4.960	5.920	8.560	11.960	14.760
<b>Stack Diameter</b>	mm	250	250	300	400	450	450	500	600	700	800	900	1.000	1.100
<b>Flue Gas Pressure Drop</b>	mbar	2,0	2,5	3,0	4,0	5,0	6,0	7,0	8,0	9,0	10,5	11,5	12,0	14,0

\* Capacity and dimensions are subject to technological changes.