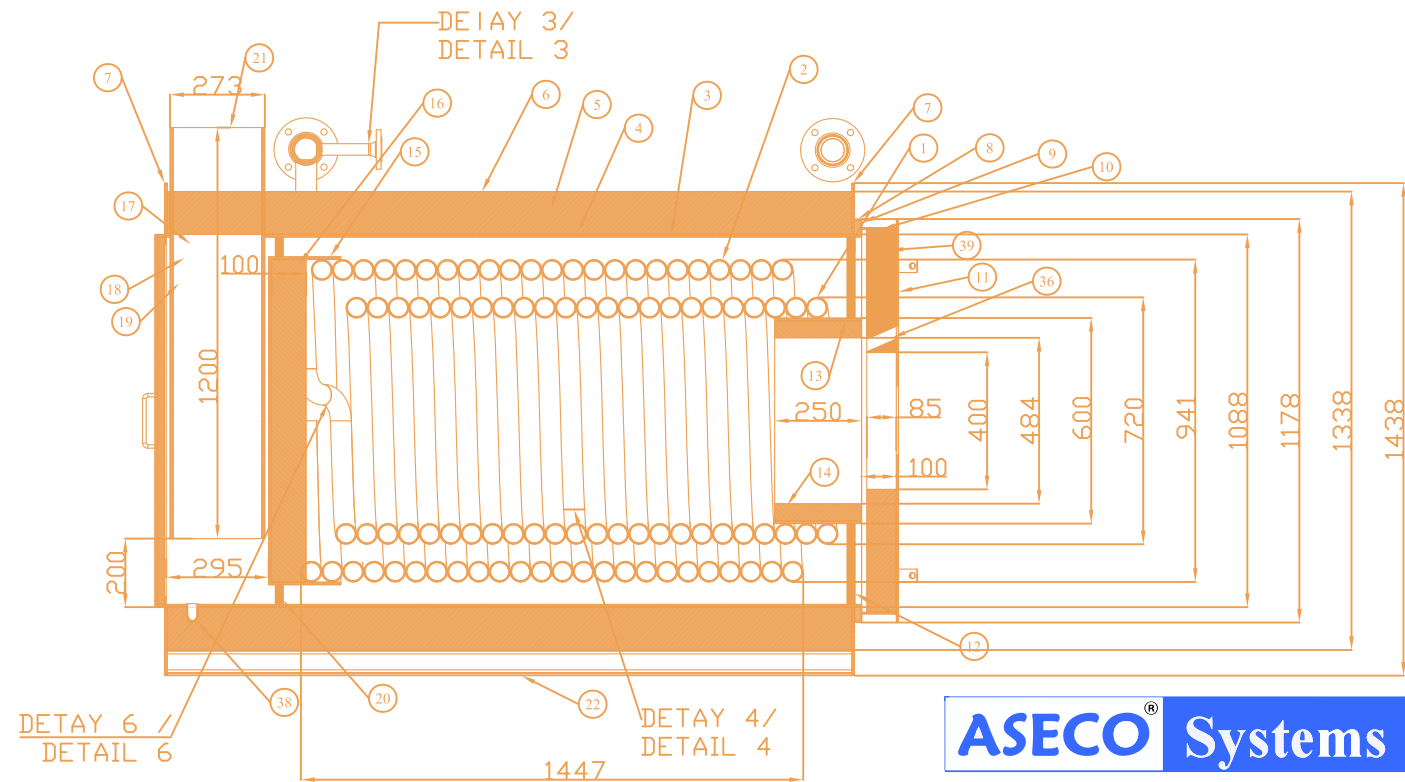




YOUR RELIABLE PARTNER ON THERMAL OIL HEATER



ASECO® Systems



THERMAL OIL HEATING SYSTEMS FOR MARINE APPLICATIONS

Our thermal oil heaters are produced to meet the certification criteria and in accordance with applicable Class requirements. All materials including piping are supplied as certified and in accordance with international standards.

Welding works are carried out by certified welders according to approved WPS & WPQR. Welding is subject to radiographic tests in accordance with Class requirements.

BAL MARIN Denizcilik; supplies its thermal oil systems to their clients along with all the components as a complete unit which is designed including heat calculation and produced according to Class requirements. Commissioning and Class test procedure are carried out by our competent Service Engineers after every kind of project supports given on request during installation.

Oil flow, pressure loss and spiral piping dispersion design is optimized in order to maintain best possible productivity in our **ASECO® Systems** oil heaters. Our thermal oil heaters are designed and developed for marine applications. Most prominent factor for healthy operation of a thermal oil heater is to maintain an optimum flow of oil in the piping exposed to heat. Low flow of oil in the heater results in spoiling of the oil completely due to cracking & carbonization. Low flow of oil also results in cracks of the piping thus leakage as the piping exposed to heat is not cooled adequately. Leakage of oil is specifically delicate and important as it creates apparent risk of fire. For these reasons, all **ASECO® Systems** oil heaters are furnished with automatic flow control by-pass system in order to maintain constant oil flow.

In order to avoid accident/loss, our systems are furnished with adequate safety systems and the components/safety instruments like electrical reference equipment, safety valves, flow control valves, indicators and their needle valves are of superior quality products from competent manufacturers.

Though control panel meets all Class requirements, our system is designed to be run manually without using built in PLC. Therefore, the system can easily be intervened by the crew in case of a breakdown.

Control panel is designed authentically, produced to be user friendly and consists of quality components easily accessible around the globe.

BAL MARIN Denizcilik, has ISO9001-2008 KYS quality management system certificate from Lloyd's Register.

- Contrary to steam systems, high pressure is not required in order to reach high temperature,
- Safer than the steam system as 300 degC can be reached without pressure increase,
- Precise temperature control is maintained as it is regardless of the pressure,

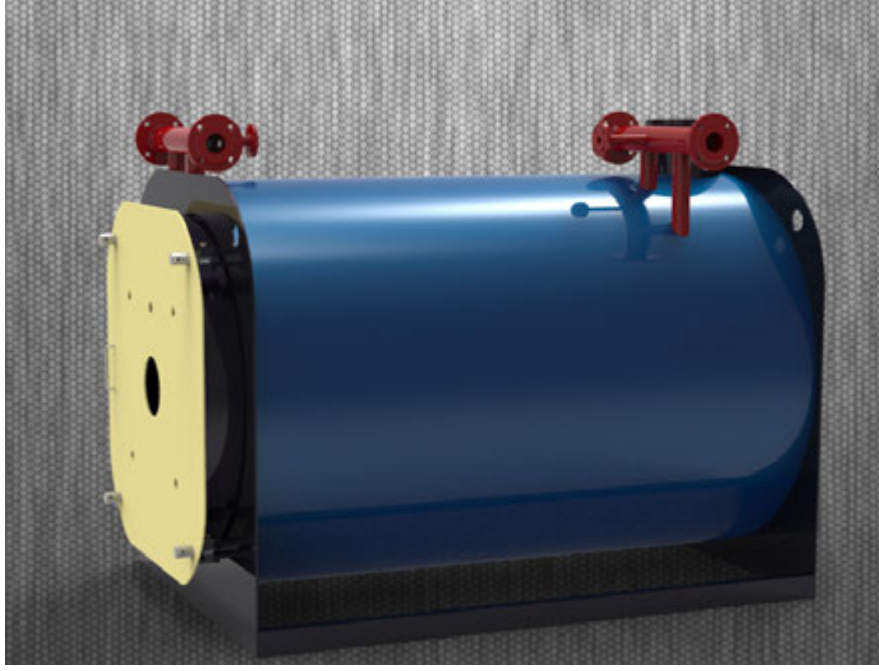


- Though the initial installation cost is higher than the steam system, total costs are much lower when
- Longer operational life and lower operational and maintenance costs are considered,
- Productivity is higher about %5-8 than the steam systems. This difference in productivity goes up to 30% when the steam and blowdown losses are considered,



- Does not require expert operators since the system usage is much easier. Operators can use the system efficiently and easily after a relatively short hands-on training,
- Time spent for running the system is much lower,
- Longer effective life as there is no risk of corrosion, scale formation etc.,
- No heavy maintenance required,





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