Thermosyphon Line Heater

A trusted alternative to water bath heaters — بديل موثوق للسخانات ذات الحمام المائي

Up to 90% reduction in overheating losses*

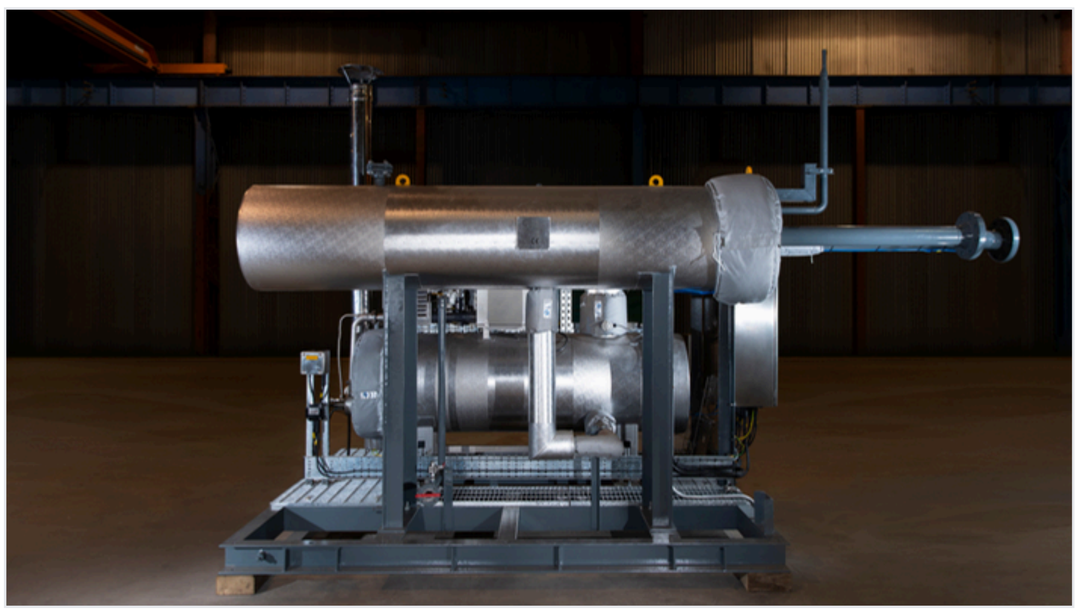
*Based on UK DNO sites

PED (CE) / ASME Section VIII • ATEX/IECEx (Zone 1/2) • FAT/SAT • Full MDR & documentation

Ops & OPEX Advantages

- ±0.25 °C (2σ) control under load swings
- Fast starts (<60 s); low mass; natural circulation
- >10:1 turndown; up to 20% lower fuel*
- No bath management; 40–50% smaller
- H_2/biogas-ready burners
- O_2-free loop—resists corrosion & scaling

* Duty-dependent; quantified on your duty profile.



Evaporation & condensation drive heat transfer in a sealed loop

Applications

- Gas distribution — RMS/PRS/city-gate
- Fuel-gas preheat — turbines/compressors
- LNG vaporisation; H_2/NG blends

Free energy-savings analysis

Tell us about your duty case and receive a complimentary, site-specific energy savings analysis.

أخبرنا ببيانات التشغيل لتحصل على تحليل مجاني لتوفير الطاقة خاص بموقعك

Scan to book

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Thermosyphon vs. Water Bath

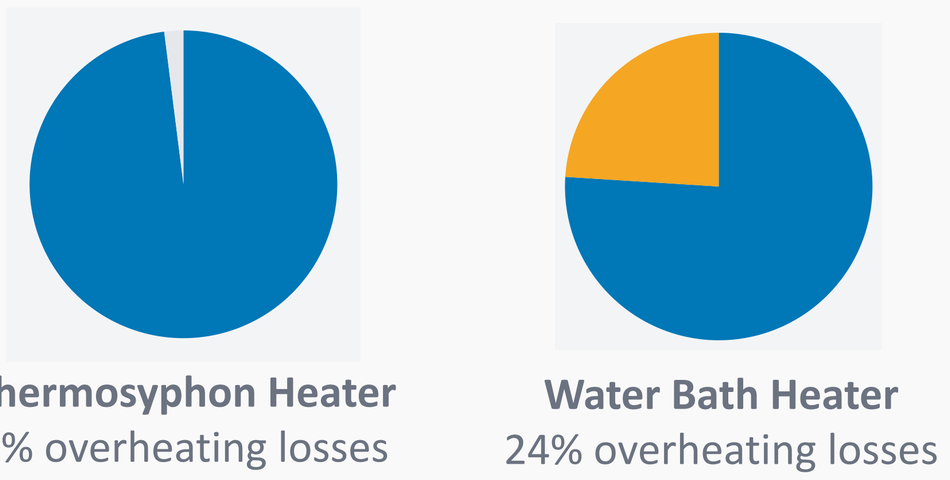
Feature	Water-bath	Thermosyphon (ProHeat)
Heating	Hot glycol bath	Sealed latent-heat loop
Start/response	Slow; long soak	**<60 s;** low mass; natural circulation
Outlet control	Overshoot & undershoot common	**±0.25 °C (2σ)** under variable load
Turndown	Limited by inertia	**>10:1;** stable low-load control
Standby/overheat	High soak & overshoot losses	Sealed loop; 85% smaller bath reduces soak-fired standby loss
Maintenance/footprint	Bath mgmt; large & exposed	Sealed bath; 40–50% smaller skid

Fuel Savings Performance

- 20%+ fuel savings vs. modern WBH*
- Improved control with fewer standby losses
- Smaller footprint reduces heat loss
- ±0.25 °C outlet control proven on live gas sites

* Duty-dependent; quantified on your site and control strategy

Useful Heat vs Overheating



Specifications & Compliance

- Duty Range: 70kW to 3.5MW
- Design codes: PED (CE), ASME Sec VIII
- Hazardous areas: ATEX/IECEx (Zone 2)
- Burners: NG, LPG, biogas; ultra-low NOx
- Full MDR, FAT/SAT, and ITP compliance

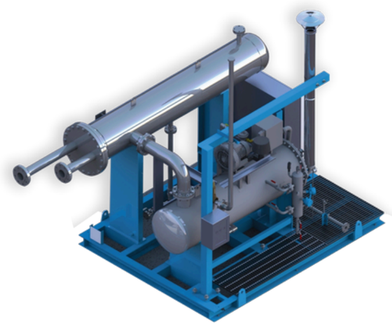
Local Support (UAE)

- Oil & Gas Systems (OGS Dubai)
- Jebel Ali Industrial Area 2, Dubai UAE
- Factory-trained technicians & spares hub
- Arabic / English commissioning support

Energy-saving projects may be eligible for internal innovation awards or public recognition

Ask us how other utilities have received internal recognition for reducing emissions and fuel use.

Free consultation and proposal



Scan for free consultation
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