

Electrical flow heaters



ELMESS
THERMO SYSTEM TECHNIK



- Elektrische Industrieheizkörper • Erhitzer
- Regel- und Steuergeräte
- Electric heaters • Control devices





Electrical flow heaters

Ex II 2 G Ex II 2 D

Applications

ELMESS flow heaters are used for heating liquids and gases.

Typical applications:

- Oil heating (lube oil, fuel oil, thermal oil)
- Water heating (industrial heating systems)
- Air heating (pressurized air, burner air, drying technology)
- Gas heating (natural gas, process gases, technical gases)
- Environmental technology (exhaust air cleaning, catalytic afterburning)
- Steam generator, steam super heater (industrial process technology)



Flow heaters for liquids and gas



Preheater for water, fuel or lube oil

Technical data

Rated power : Ex-protected up to 300 kW,
other up to appr. 2 MW
Rated voltage : 230 ... 690 V
Nominal width : DN 40 ... DN 1200
Nominal pressure : PN 16 ... PN 100
Installation length : 400 ... 3000 mm

All heaters are designed and manufactured according to the individual requirements of our customers.



Materials

Selection of material results under consideration of operation data as well as customer's requirements.

Carbon steel, painted, stainless steel and special materials

Flow heaters for high process temperatures

Multi-stage design for operating temperature up to 700°C

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Gas preheater, block type, for high operating pressure

Up to appr. 500 bar

Design Codes and Inspections

Design, Manufacturing and Inspection according to European Pressure Equipment Directive (PED, 97/23/EC), ASME code or other international standards.

Design according to AD2000, ASME or other codes

Inspection: Manufacturer's inspection, TUV, LR, RINA, SELO or other third parties; individual inspection by classification organisations such as DNV, BV, LR, ABS, GLC or others; ASME design with or without U-stamp

Explosion protected devices are supplied with EC type examination certificate (according to ATEX directive 94/9/EC), GOST and IECEx certificates are available on project basis.

The complete documentation including all certificates is part of the delivery.

Gas preheaters



DVGW certified (German Technical and Scientific Association for Gas and Water)



Regeneration gas heater

e.g. for air separation plants

Complete systems, including heater and control panel from one single source, guarantee reliable and safe function.





Wärme.

Mit Sicherheit.

Heat. And safety.

Qualität im Detail. Die hochwertigen und langlebigen Industrie-Heizsysteme von ELMESS werden vielfältig eingesetzt. So sorgen sie z.B. auch auf einer Bohrinselfür einen reibungslosen und sicheren Ablauf.

There is quality in the detail. ELMESS' high-quality and durable industrial heating systems are put to a large variety of uses, for example on oilrigs to ensure that work can be carried out smoothly and safely.

Jedes einzelne Produkt von ELMESS: ein Unikat

- Strömungserhitzer für flüssige oder gasförmige Medien einschließlich Dokumentation nach Druckgeräterichtlinie oder ASME
- Gasvorwärmer und Verdampfer: Erhitzer mit Rohrschlange in einem Alu-Block eingegossen, für zuverlässigen und sicheren Betrieb auch bei hohen Drücken
- Lufterhitzer und Heizregister
- Ex-Heizlüfter zur Wandmontage oder in Kompaktbauweise
- Ex-Raum- und Rippenrohrheizgeräte
- Ex-Temperaturregler und Thermostate
- Ex-Nivea uwächter
- Ex-Tauchheizkörper, elektrische Flansch- und Einschraubheizkörper

Each individual product of ELMESS is unique

- Flow heaters for fluids or gas including documentation according to PED or ASME
- Gas preheaters or vaporizers: Block type heater with a tube coil cast in an aluminium block, for reliable and safe operation also with high pressures
- Air heaters
- Ex air blower heaters for wall mounting or compact type
- Ex space heaters and finned tube heaters
- Ex temperature regulators and thermostats
- Ex level switches
- Ex immersion heaters with flange and thread connection

Fordern Sie uns heraus

Senden Sie uns Ihre spezifizierte Anfrage. Wir erstellen Ihnen ein auf Ihren Bedarfsfall zugeschnittenes Angebot. Auch im Internet unter www.elmess.de

Challenge us

Send us your specific enquiry. We will make you an offer tailored to your requirements. Also available on the Internet under www.elmess.de