



Steam & Condensate Systems Removable & Reusable Insulation Solutions



Energy savings / *Noise reduction* / *Safety solutions*



Applications: Boiler doors, level gauges, manways, valves, flanges, strainers, PRV Stations, separators, flowmeters, expansion joints, steam traps, condensate pumps, DA tanks, heat exchangers, and associated fittings & piping.

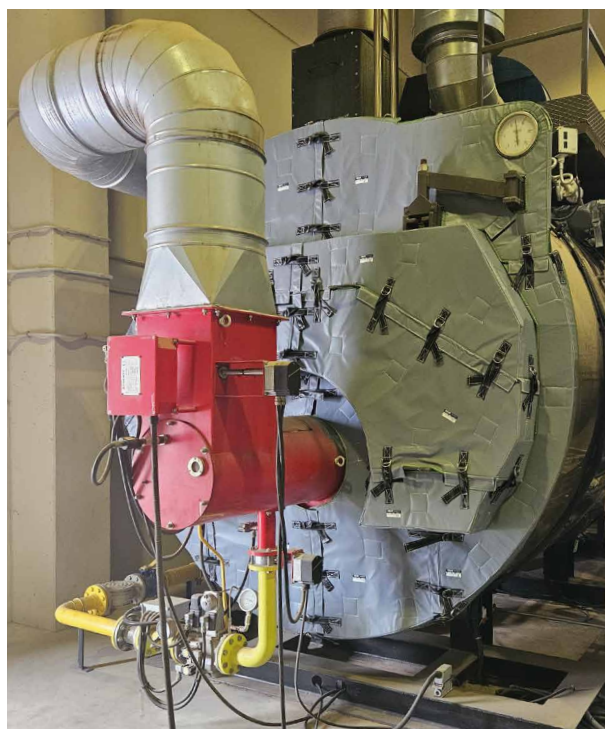
Custom Designed Boiler Door Insulation Cover

Proven Energy Savings with Rapid Payback

TAS Thermal Blanket Solutions for steam systems offer **demonstrated reductions in energy loss**, with payback periods generally between **4 - 16 months**. Once installed, the blankets provide immediate improvements in efficiency and operational cost reduction.

Immediate Energy & Environmental Impact

By reducing surface heat loss, TAS blankets lower **fuel consumption, CO₂ emissions, and ambient temperatures**. These measurable results support sustainability targets while contributing directly to reduced operating expenses.



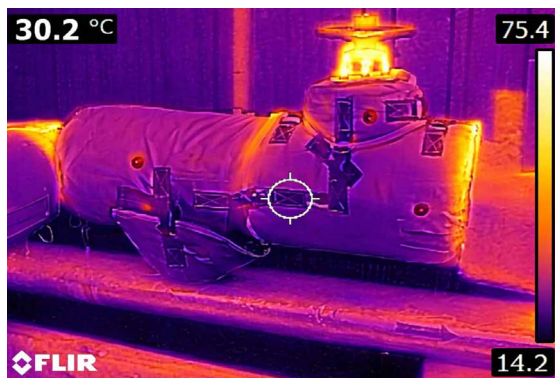
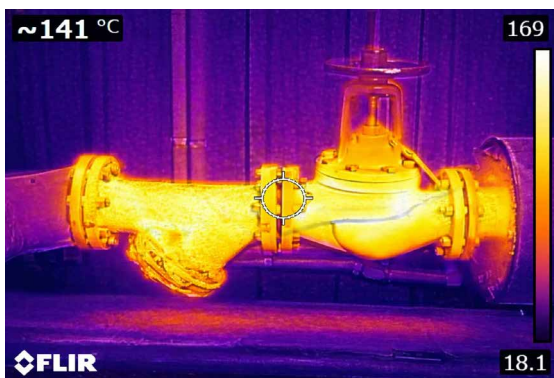


Improved Safety Conditions

Insulating high-temperature surfaces significantly reduces the risk of **burn injuries** and helps facilities comply with occupational safety requirements. Maintaining safe surface temperatures creates a more secure and productive work environment.

Precision-Engineered Insulation

Each blanket is **CAD custom designed and fabricated** to match valves, boiler doors, manways, flanges, expansion joints, flowmeters, PRV stations, condensate pumps, and associated piping. This ensures accurate fit, consistent performance, and ease of handling during operation or maintenance.



Removable & Reusable

TAS blankets are designed for **repeated removal and reinstallation**, making them practical for areas that require regular inspection or servicing. Reinstallation takes **minutes instead of hours**, minimizing downtime and labor costs. In many cases, a single reuse offsets the cost compared to conventional insulation replacement.



Key Benefits

1. Proven & Reliable Solutions

- History of success since 1988
- Expected lifetime 15+ years

2. Energy Savings & Payback

- Significant reduction in heat loss and CO₂ emissions
- Typical ROI in 4–16 months

3. Best Value Investment

- Outstanding quality–price ratio
- High return compared to other efficiency projects

4. Precision Engineering

- CAD-designed, guaranteed fit
- Removable & reusable

5. Durable Construction

- Double-sewn construction with edge binding for durability
- Built to withstand harsh industrial environments

6. Safety & Usability

- Improved safety & work conditions
- User-friendly installation and removal in minutes



TAS guarantees the fit of every blanket to the specified component, providing reliable thermal performance and practical use.

END-CAP DESIGN

Custom designed end-caps ensure complete coverage and minimize heat loss at terminations.

TWO-PIECE BLANKET CONSTRUCTION

Two-piece design allows independent bonnet access and improves fit on complex valve assemblies.

CONTOURED FISH-MOUTH EDGE

Contoured edge follows adjoining piping to reduce gaps and thermal bridging.

ENERGY SURVEY SAMPLE

Presented By: TAS Blanket Insulation Kft.
Phone/Email: +36 30 558 4126
Project Name: Sample Steam System
Project Contact:
Phone/Email:
TAS Project #: 25565

Survey Date: 1/30/2025
Steam Cost: 50€/ton of steam
Product Specification: LT232C-SS
Insulation Thickness: 40mm
Fastener Type: Velcro® Flaps/ Dbl D Ring STD. Straps
Proposal Date:

QTY	DESCRIPTION / LOCATION	AMB. TEMP	MEAS. SURFACE TEMP	OPERATING HOURS	BARE HEAT LOSS (W/HR)	BARE OPER. COST (€/YEAR)	INSULATED HEAT LOSS (W/HR)	INSULATED OPER. COST (€/YEAR)
BOILER ROOM - BLR. 1, 2 & 3								
3	DN100 Safety Relief Valve	30	210	8760	2,800	€2,001.69	236	€168.83
3	DN150 Globe Valve	30	210	8760	8,411	€6,013.62	709	€507.20
3	DN150 Orifice Flange	30	210	8760	2,640	€1,887.34	223	€159.18
6	DN40 Globe Valve	30	210	8760	5,049	€3,609.88	613	€438.22
18	DN65 Globe Valve	30	210	8760	21,320	€15,243.63	1,798	€1,285.68
3	DN65 Strainer	30	210	8760	3,553	€2,540.61	300	€214.28
3	DN65 Control Valve	30	210	8760	4,086	€2,921.70	345	€246.42
72	DN25 Globe Valve	30	180	8760	44,507	€31,821.73	5,080	€3,632.40
12	DN25 Control Valve	30	180	8760	8,531	€6,099.16	974	€696.21
3	Boiler Door Ø 2.6 m × 12 cm	30	210	8760	81,262	€58,100.32	27,629	€19,753.89
STEAM HEADERS								
18	DN150 Globe Valve	25	190	8760	46,260	€33,074.92	3,660	€2,616.52
6	DN50 Globe Valve	25	190	8760	4,848	€3,465.89	383	€274.18
9	DN25 Globe Valve	25	180	8760	5,749	€4,110.31	656	€469.18
3	DN150 Control Valve	25	190	8760	8,867	€6,339.36	701	€501.50
6	DN15 Ball Valve	25	180	8760	2,936	€2,099.13	335	€239.61
3	DN15 Strainer	25	180	8760	1,659	€1,185.95	189	€135.37
3	DN150 Safety Relief Valve	25	190	8760	3,855	€2,756.24	305	€218.04
3	DN50 Orifice Flange	25	190	8760	857	€612.70	68	€48.47
3	DN200 Globe Valve	25	190	8760	11,296	€8,076.62	894	€638.93
3	DN100 Globe Valve	25	190	8760	5,133	€3,669.76	406	€290.31
6	DN150 Orifice Flange	25	190	8760	4,839	€3,460.13	383	€273.73

ENERGY SURVEY SUMMARY SAMPLE

Total Heat loss - BARE (kWh/Year):	2,439,287.34
Total Heat loss - w/TAS Blanket Insulation (kWh/Year), only	401,970.33
Total Heat loss SAVED - w/TAS Blanket Insulation (kWh/Year):	2,037,317.01
Total Annual Operating (Steam Cost) - BARE	€199,090.70
Total Annual Operating (Steam Cost) - w/TAS Blanket Insulation, only	€32,808.17
Annual (Steam Cost) SAVINGS w/TAS Blanket Insulation	€166,282.53
*Lifetime (Steam Cost) SAVINGS (15 Yrs)	€2,444,629.32
Total Cost (Thermal Blanket System)	€49,608.63
Total Cost	€49,608.63
Payback (Months)	5
ROI	335.18%
Number of Fittings	189

SUSTAINABILITY MEASURES SAMPLE

EMISSIONS SAVINGS #1 NATURAL GAS (kWh):	2,037,317.01
CO ₂ (tons)	407.03
NO _x (kg)	473.10
VOC (kg)	16.96
EMISSIONS SAVINGS #2 FUEL OIL (kWh):	2,037,317.01
CO ₂ (tons)	620.90
NO _x (kg)	1,239.24
VOC (kg)	36.21
CUBIC METER OF WATER SAVED (m³/YEAR)	3,157.76

TAS | THERMAL • ACOUSTIC • SAFETY 
BLANKET INSULATION



Product Highlights:

- Custom design for perfect fit and user-friendly approach
- Removable-reusable many times over lifetime
- Double sewn, binded and stapled edges
- Stainless steel embossed ID tags for each piece
- Stainless steel fasteners
- Non-porous, non-wicking high quality materials



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BLANKET INSULATION
 "Quality, sustainability, energy efficiency"

