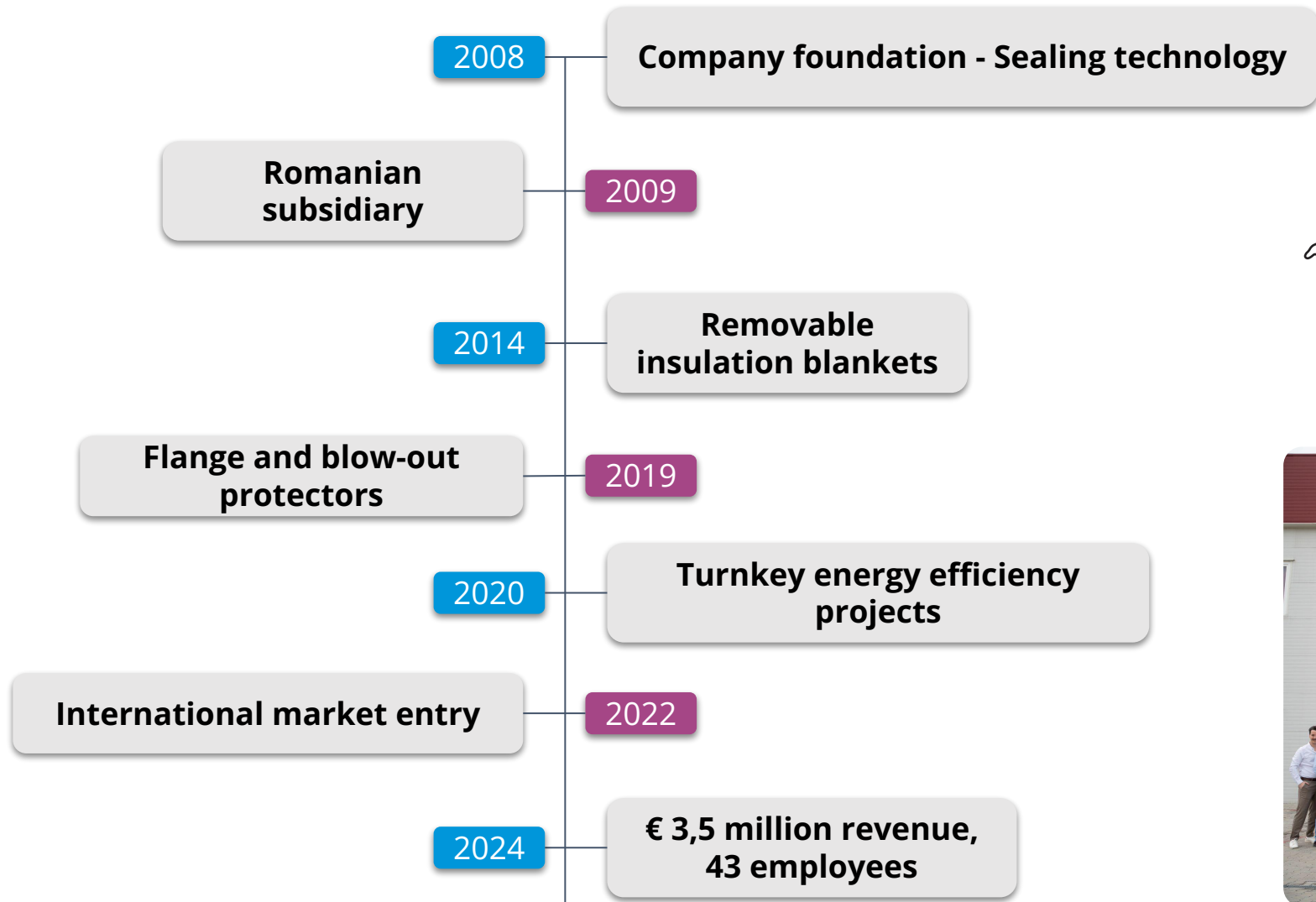


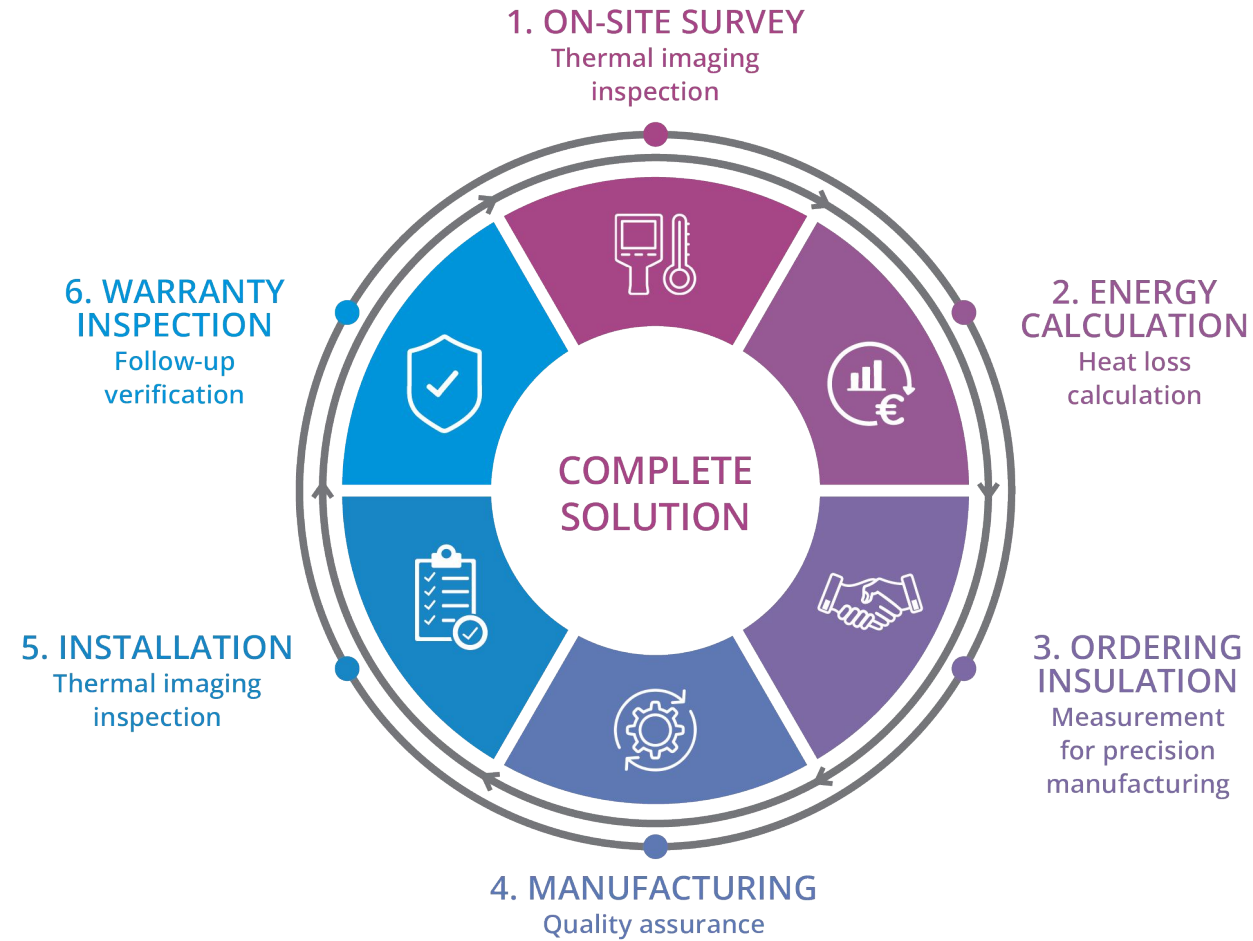
Energy efficiency projects Pharmaceutical industry



Dynoteq Ltd.



Complete insulation solution



Where DynoFlex[®] removable insulation blankets are already in use:



What system components can insulation blankets be used on?

Valves



Heat exchanger



Pump



Steam boiler



Pharmaceutical industry equipments and temperatures



Equipments

Temperatures

Reactor



50 - 130 °C

Fermentor



80 - 120 °C

Inoculum mixer



80 - 100 °C

Rectifier column



75 - 130 °C

Drying apparatus

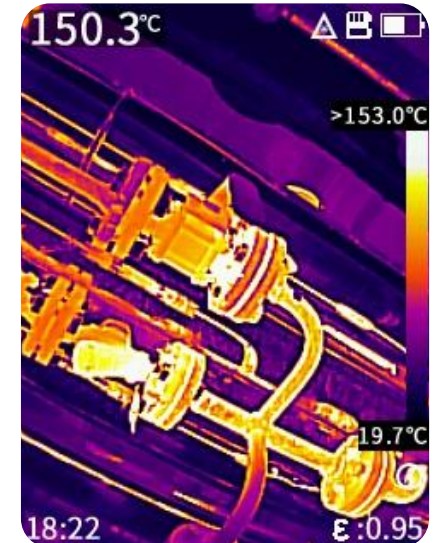


70 - 90 °C

Distillation column



70 - 110 °C



DynoFlex[®] DLT250-S-EG25 structure

Technical textile

Impregnated, water-, heat- and UV-resistant coating, easy cleaning

Unique identifier

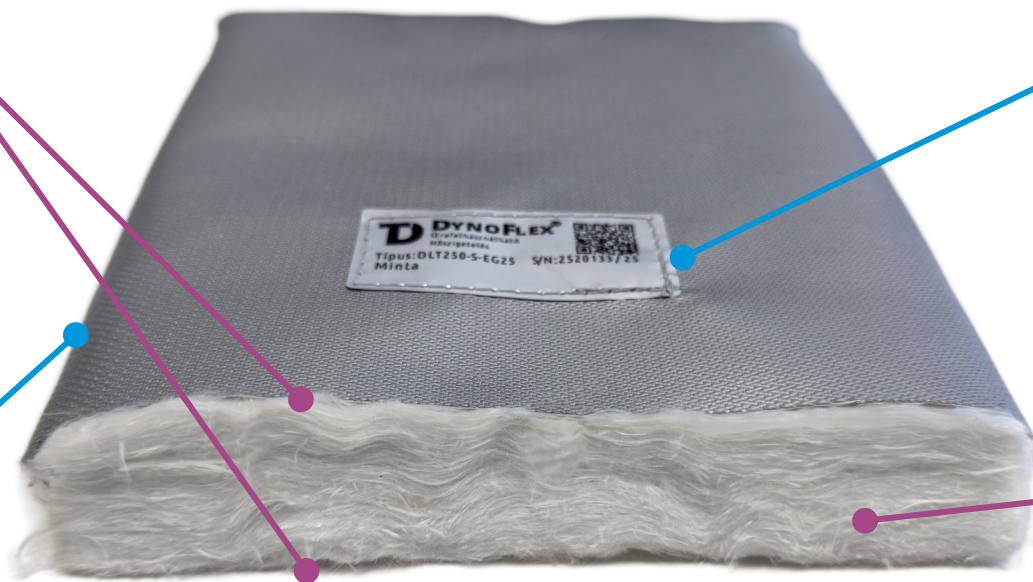
Every insulation has a unique identification label

Sewing

With para-aramid heat-resistant thread

E-glass fiber blanket

Mechanically needled, 100% E-glass fiber



- Simple velcro fastening
- Easy removal and reassembly
- For surfaces up to 250 °C

DynoFlex[®] DMT300-H-EG25 structure

Technical textile

PTFE-impregnated, water-, heat- and chemical-resistant, washable coating

Unique identifier

Every insulation has a unique identification label

Sewing

With PTFE heat-resistant thread

E-glass fiber blanket

Mechanically needled, 100% E-glass fiber

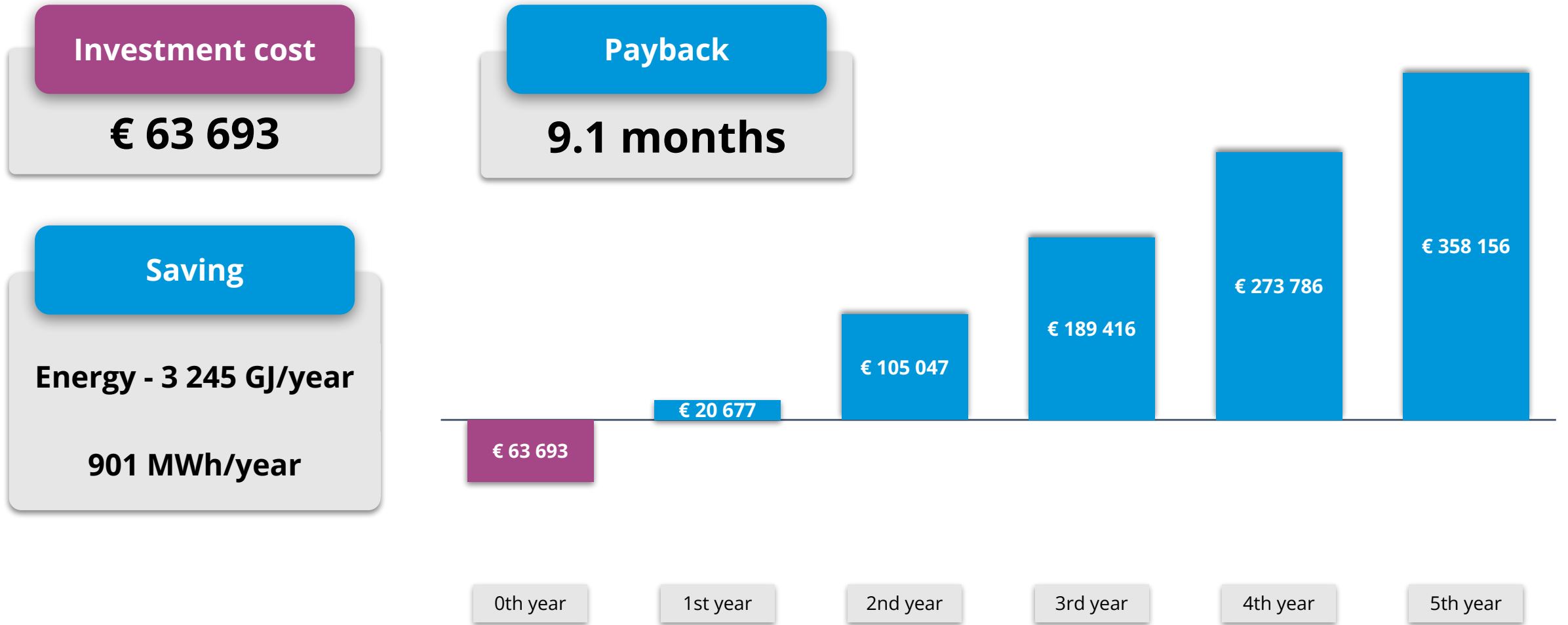


- Simple velcro fastening
- Easy removal and reassembly
- For surfaces up to 300 °C

DynoFlex[®] DMT300-EX-EG25 structure



Sample project - Budapest



Operating hours: 5 110 - 8 400 h

Energy cost: 26 €/GJ

Surface temperatures: 70 - 185 °C

Sample project - Eastern Hungary

Investment cost

€ 16 000

Payback

7 months

Savings

Energy - 2 275 GJ/year

CO₂ - 125.1 t/year

Natural gas - 66 912 m³/year

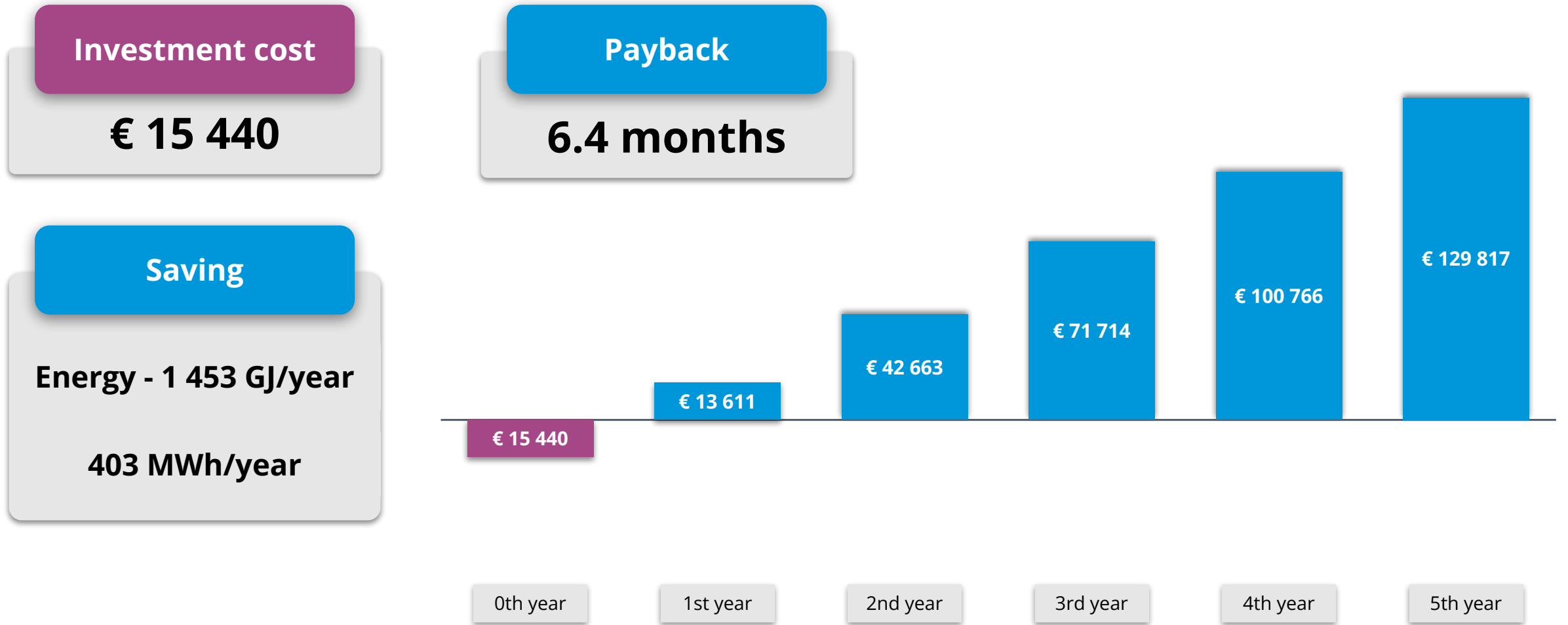


Operating hours: 4 830 - 7 050 h

Energy cost: 13 €/GJ

Surface temperatures: 50 - 185 °C

Sample project - Budapest



Operating hours: 6 000 h

Energy cost: 20 €/GJ

Surface temperatures: 10 - 150 °C

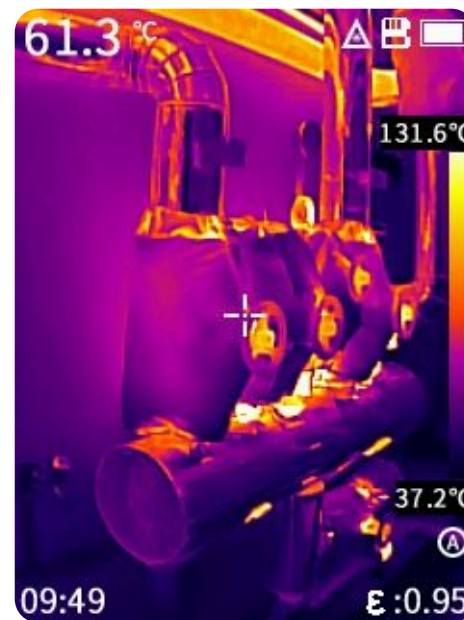
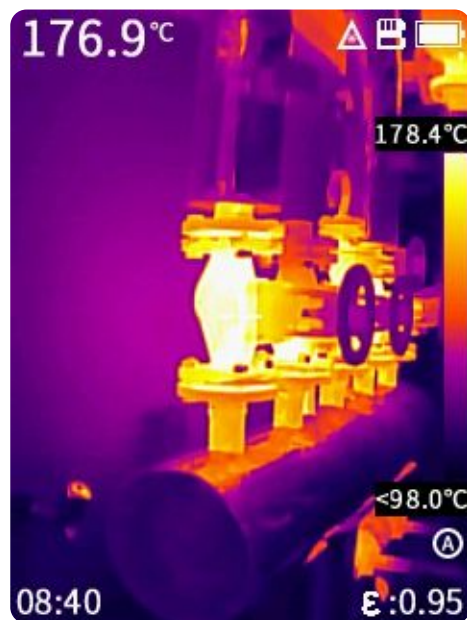
Insulated surfaces

176 °C

50 °C



Steam header
DLT250-S-EG25



Insulated surfaces

104 °C

44 °C



Steam system
DLT250-S-EG25



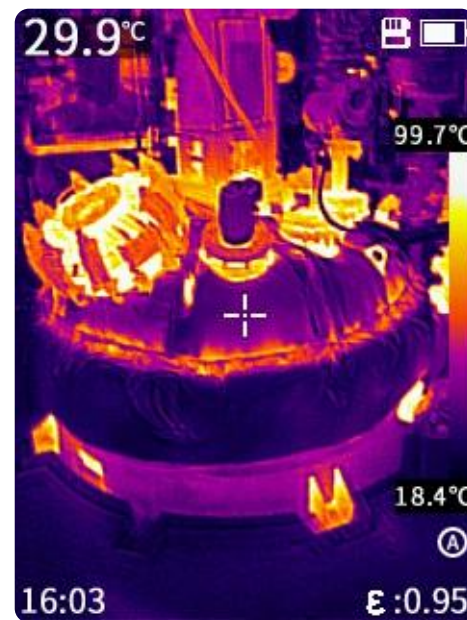
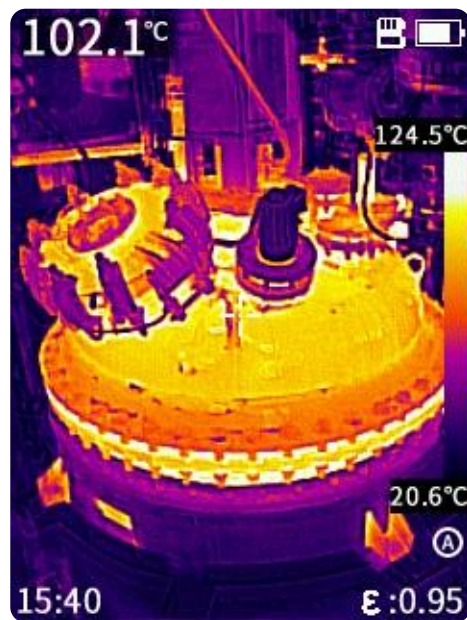
Insulated surfaces

102 °C

30 °C



Reactor
DLT250-S-EG25



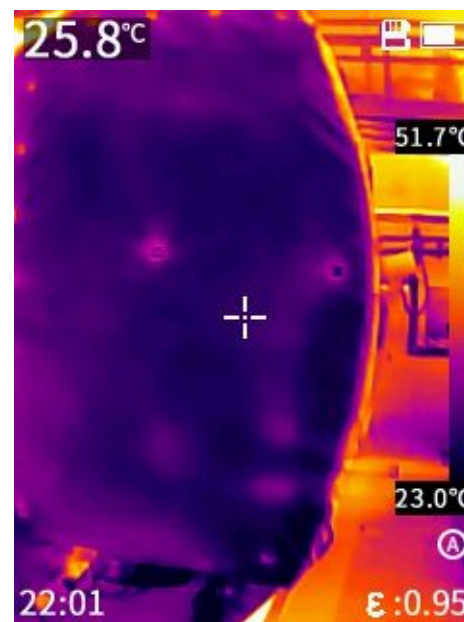
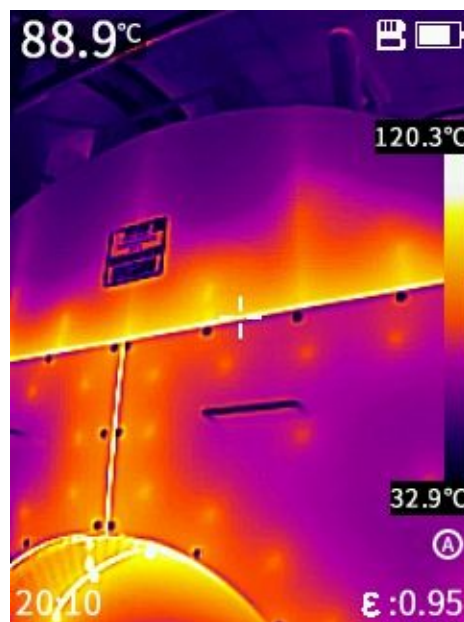
Insulated surfaces

120 °C

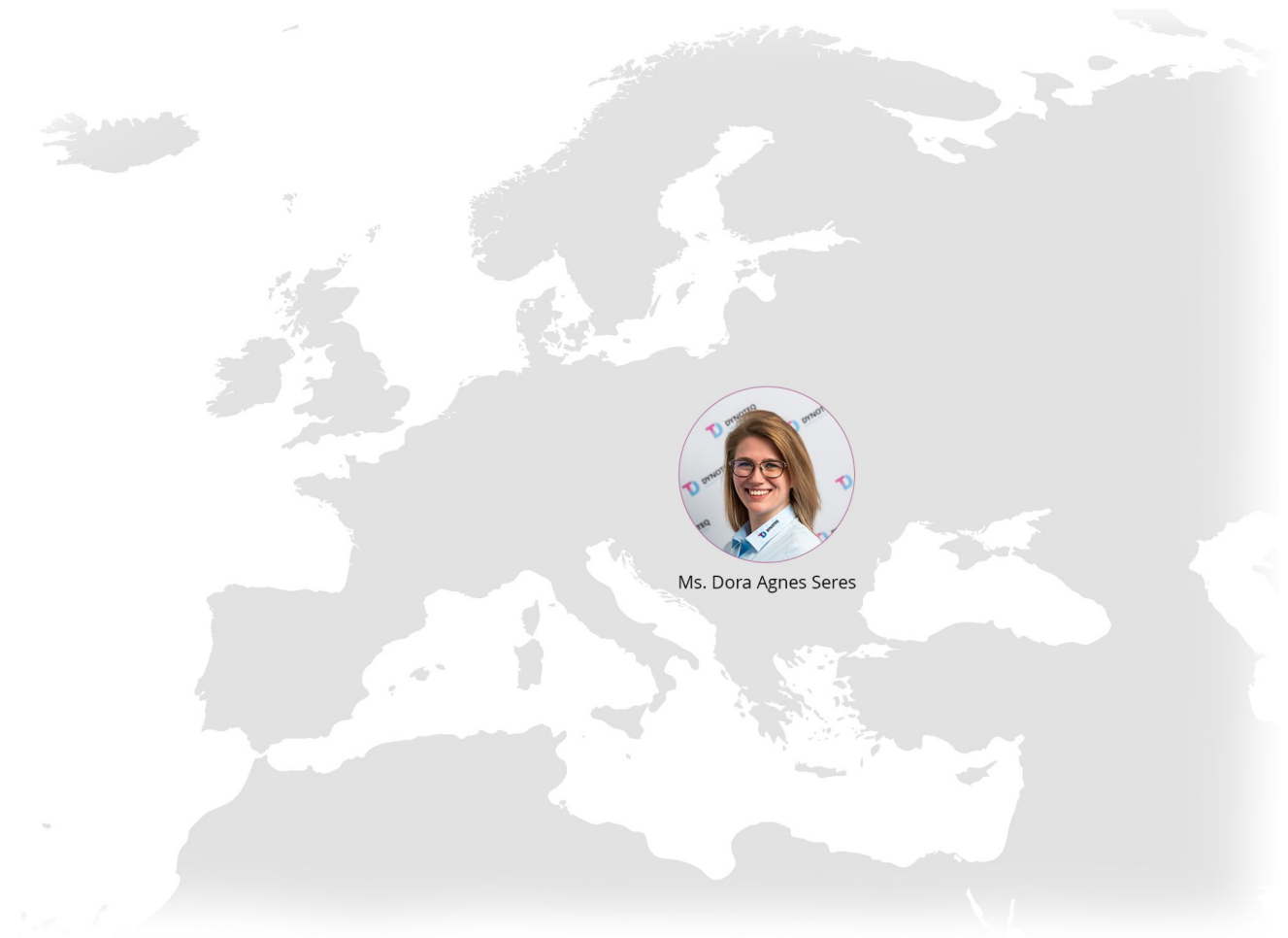
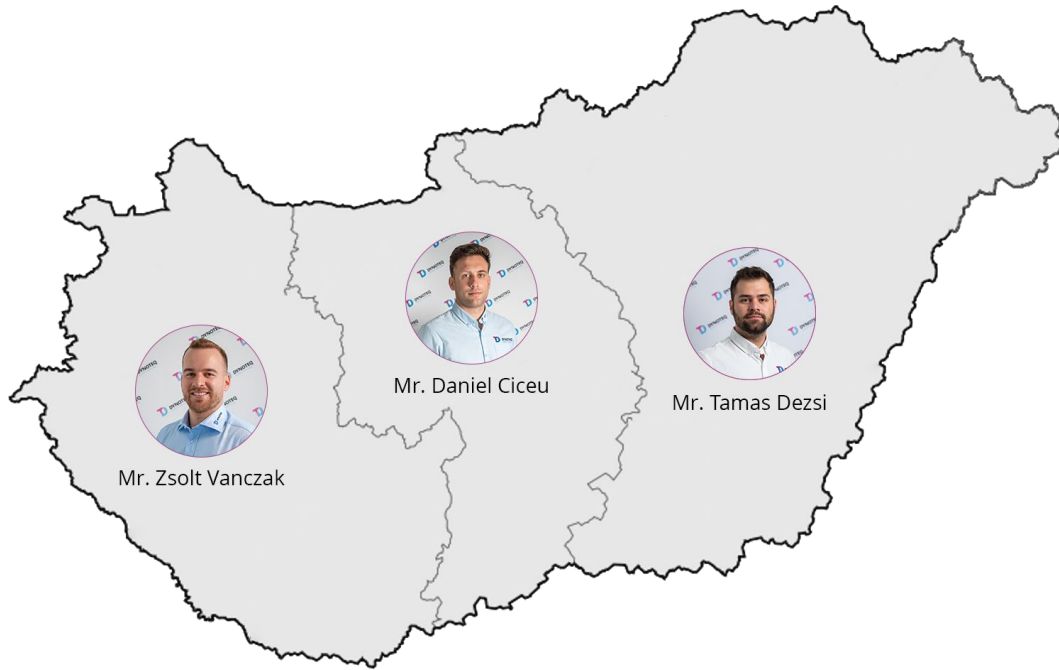
26 °C



Steam boiler
DHT550-SWS-EG25



Our sales engineers



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