



Heating and Brazing Solutions  
Loval Engineering®

# Industry

Tailored solutions



Laboratory  
Tempering units  
Motors, generators and gearboxes

# Specialized in Vacuum Brazing



Vacuum brazing process is a unique method to join parts. During the 4 hour process the braze material melts and flows into a joint by capillary force, creating a gas-tight seal. Brazing temperatures are between 900 – 1200 degrees under vacuum of one millionth of atmospheric pressure (<0,001 mbar).

### BENEFITS

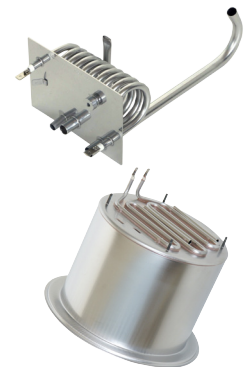
- Outstanding corrosion resistance
- No need for post-process cleaning treatment
- The most effective process to join complex structures
- Uniform heat treatment without thermal stress

## Laboratory



**Loyal boiler heater** product range consists of various vacuum brazed, ready-to-install heaters. They are usually used for rapid heating of small volumes of liquid and for steam generation.

Boilers can have one or more different sizes of connections. We supply products for various industries with strict requirements.

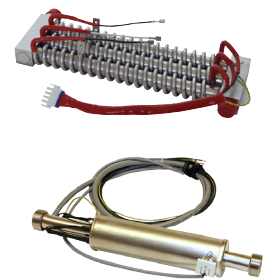


## Tempering units



**Loyal flow-through heaters** can combine electric heater, vessel, terminal box, fixing devices and connection units. Installation is therefore very easy and quick.

Dimensioning is based on required power and flow rate. Accurate temperature control even with low flow velocities. Heat losses can be minimized by insulating the vessels.



## Motors, generators and gearboxes



**Loyal heating elements** for high power and limited space applications, e.g. generators, gearboxes and motors. Thermostats, over-temperature cut-outs and connecting cables can be added to the elements.

Expert design and correct dimensioning ensure optimal functionality and an increased lifetime.

