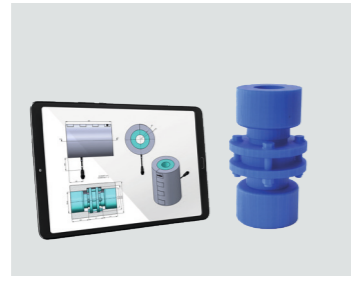


Rapid customization of proven products for your project



► Inquiry and technical consultation
Our qualified application engineering staff supports you from the beginning to determine the best possible solution for your application according to your specification and line geometry



► Digital design process for guaranteed fit
Based on our long-term experience of heater jacket designs for semicon applications, we can quickly design your heater jackets. With our 3D printing capabilities, we create models to ensure the perfect fit of the heater jacket.



► Industrial production with high
High production capacities and industrialised manufacturing processes enable us to produce the heater jackets in the shortest possible time with high repeatability and a consistent manufacturing quality.



► End-of line test and shipping
Winkler AG has implemented a certified ISO 9001 QM-System. Final testing ensure that every product will be tested thoroughly before shipping. All our products will be packaged according to our long-term proven standards.

New developments and OEM-solutions with quick iteration cycles



► Dedicated project and development teams
We help you to succeed by assigning dedicated development and project engineers to your project. From specification phase to implementation of series production you have the same contact person.



► Rapid prototyping and product qualification
With our in-house development centre, we can develop prototypes of your product in a very short time. After your approval we test and qualify the product with our in-house testing and development team.



► Industrialisation of the process
Our products are approved by our engineering team before production, and our certified quality department ensures consistent quality. Customers can audit our production before it begins if needed.



► Industrialisation for large-scale production
With our highly flexible production we can adopt and ramp-up our production quickly with your demand. Our industrialized processes ensure that we can do this by ensuring a high quality.



HEATING SOLUTIONS FOR SEMICONDUCTOR FACTORIES

winkler





**LINE HEATERS
VALVE HEATERS
SPECIAL SOLUTIONS
TEMPERATURE CONTROLLERS**

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 **ISO 9001**
Quality management for consistently high quality and satisfied customers

 **CE-Conformity**
All our products comply with the current regulations

 **UL 499 and CSA C22.2 compliance**
Compliant to the quality and safety standards for the American market

Your Winkler heating solution for Semiconductor factories

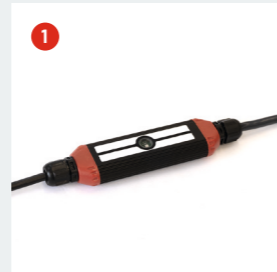
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Field service

Use our heating solutions off the shelf

- Standardized components with fast lead-time lead to reduce down-time of machinery
- Easy to install and replace in the field
- Standardized components allow spare part stock on site with low investment



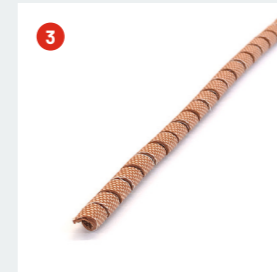
1 Inline temperature controller

- Simple detection of the actual status via LED status display
- Setpoint can be adjusted with IR control unit
- Robust aluminum housing



2 Single channel controller for wall-mounting

- Robust housing in IP 65 saves costs
- Up to 5 million switching cycles under installation costs
- Numerous variants from simple to complex control tasks



3 Silicone rubber spiral heater

- Installation on small pipes
- Available in different sizes off the shelf
- Robust and easy to install



4 Silicone rubber insulator

- Snap-on for quick installation
- Improves the efficiency of spiral heaters
- Keeps spiral heaters in place without any fasteners



Project business

We customize heating solutions with proven technology

- Our technology is tested and proven over decades in Semiconductor factories
- Efficient and fully digital engineering process ensures quick supply and perfect fit
- Experienced technicians help you to find the right solution



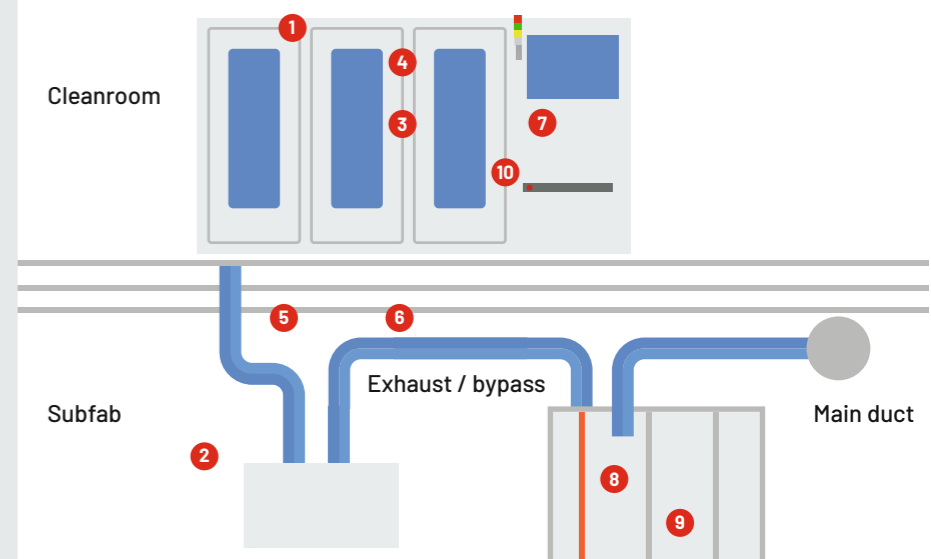
5 Flange heaters/ PTFE coated fabric

- Reduces condensations of gas/ improves the standing times of pipes
- PTFE coated surface in a robust design
- Increased up-time



6 Robust PTFE heating jackets

- Perfect fit due to test on 3D printed model
- Soft PTFE coating improves handling and heat transfer
- Proven technology for several years in the semiconductor industry



OEM series solutions

We develop innovative customized heating solutions

- Rapid prototyping and testing for quick development progress
- Product qualification in own engineering and testing centre
- Keep your identity with OEM-Branding
- Flexible production allows quick ramp-up with your growth



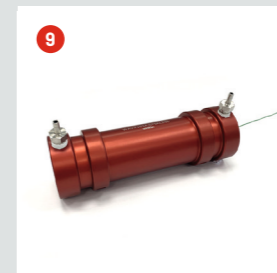
7 PU foam insulation jackets

- Improved cooling insulation developed from scratch including the manufacturing process
- Easy to install
- Reduces condensation on the cooling pipes



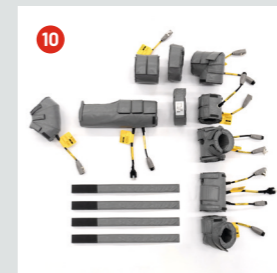
8 Silicone cast insulation with perfect fit

- Developed to improve the thermal insulation of complex geometries
- Customer specific tooling
- Developed in several iterations



9 Inline gas heater

- Improves the heating process of the gas
- Reduces installation time
- Joint development with an OEM



10 OEM heating jackets

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