



Product Presentation

Heating Jacket Set
For narrow/small pipes/chamber

Product Information

At Luck Design, we offer the best solution with a sustainable and heat-resistant heating jacket for temperatures over 200°C. Our expertise lies in creating heating jackets specifically tailored for narrow and/or small pipes. One of our key advantages is the ease of attachment and detachment, facilitating effortless installation and maintenance processes.

In addition to our high-quality heating jackets, we highly recommend considering the accompanying accessories: the thermocouple clip and temperature control (SB1). When used in conjunction with our heating jacket, these accessories further enhance the performance and efficiency of the system.

Heating Jacket



Thermocouple Clip



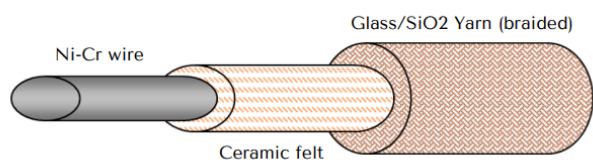
Temperature Control (SB1)



Key Points Heating Jacket

Heating Element Structure

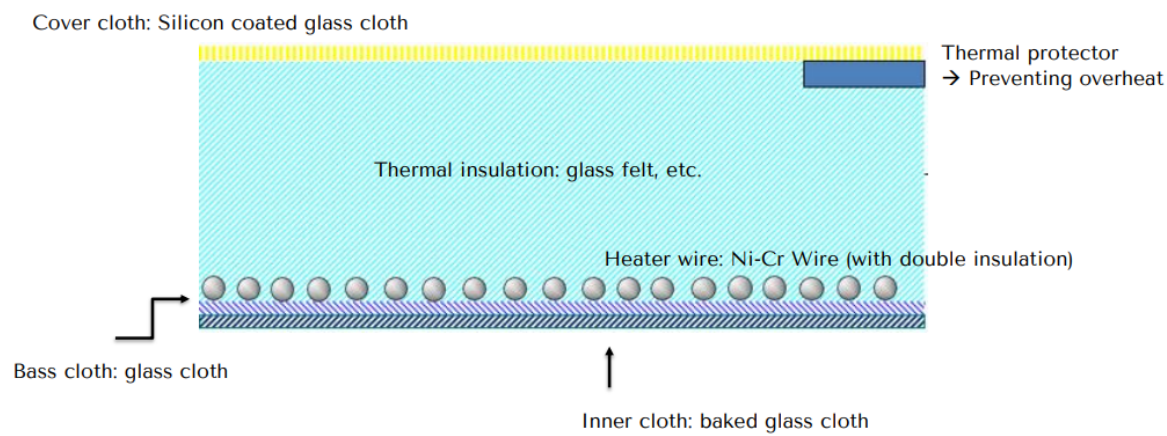
We have a **double insulation structure** that prevents insulation deterioration for **high reliability and durability**.



Incombustibility

Our heating jacket is designed with **multiple layers** of incombustible insulation materials including silicon-coated glass cloth, glass felt, thermal protector, bass, and inner cloth. This unique construction ensures the **highest level of safety** and **protection** during heating operations.

Here under is an illustration of the cross-section of our heating jacket



(!Please note the details about the heater wire, cover cloth, inner cloth, etc. will be decided and made customized after consulting our clients.)

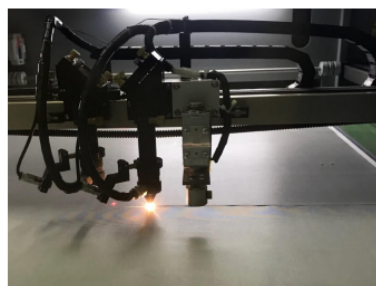
Energy saving

In comparison with other company that uses rubber heater, Luck Design's Heating Jacket is better in insulation and more **sustainable** and **energy-saving**. In addition, the surface temperature also reduces which will **reduce air conditioning power consumption**.

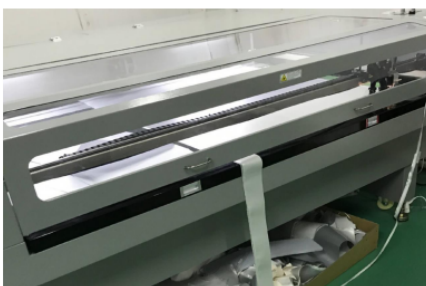
High-precision sewing technology

Luck Design has a **highly professional sewing team** in combination with **advanced technology** to create the best result for our clients.

Laser Machine



Computerized cutting machine



Industrial sewing machine



What's also in the package deal:

- Our heating jackets are specially designed for thin-film equipment, such as ALD, CVD, PVD, Etchers, etc.
- Different types of constituent material. The details will be discussed with the clients.

<div>Heater Wire</div> <ul style="list-style-type: none">• Ni-Cr wire with double insulation• Thermal resistance up to 800°C	<div>Cover cloth</div> <ul style="list-style-type: none">• Silicon coated glass cloth• Teflon-coated glass cloth	<div>Internal insulation material</div> <ul style="list-style-type: none">• Glass felt, etc.	<div>Inner cloth</div> <ul style="list-style-type: none">• Baked glass cloth
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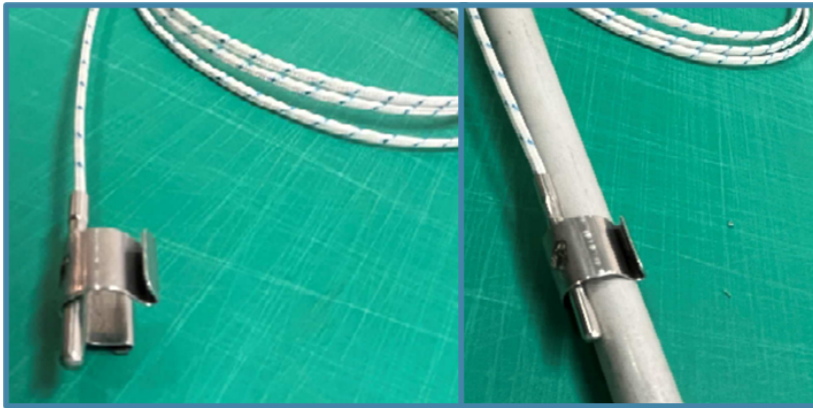
- Applicable standard: CE and RoHS
- Cleanroom Specifications' We are using materials that are less likely to generate particles. In addition, it is water, bend, and cut-resistant.

Thermocouple Clip and SB1

- Thermocouple clip

We use a **K-type thermocouple** that can be clip-mounted on pipes with outer diameters of $\varnothing 9.52$ (3/8 inch) and $\varnothing 6.35$ (1/4 inch) for narrow and/or small pipes.

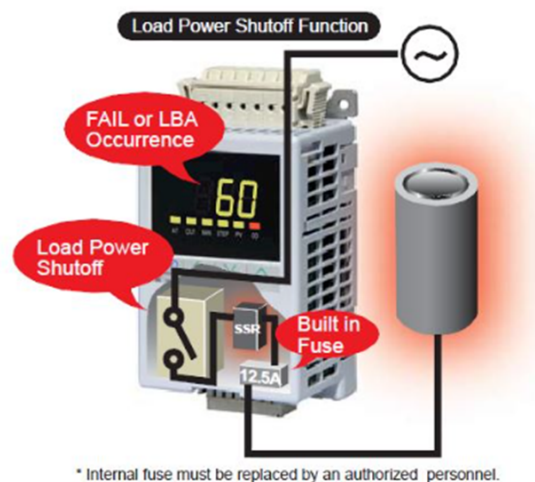
Both the clip and thermocouple protection tube is made of stainless steel and welded together. It's easy to attach and detach and provides secure fastening and enables **accurate temperature measurement**.



(Illustration of our thermocouple clip)

- SB1

Our **Japanese-made** heaters, equipped with thermostat control, provide a **cost-effective** option while ensuring efficient temperature regulation. While these heaters do have a limited lifespan, they offer significant benefits in terms of performance and affordability.



For those who prioritize **longevity and reliability**, our compact heaters with PID control are highly recommended. These heaters integrate the advanced features of a proportional-integral-derivative (PID) controller and are designed to deliver **precise and stable temperature control**. With a **longer basic lifespan**, they offer peace of mind and exceptional performance.



When using it together with our heating jacket, you can set up the maximum temperature. It will automatically shut down when the heating jacket exceeds the max. temperature. Creating a sustainable, safe, and economical solution for your company.

For more information?

Please visit our website where you can find our other product.

If you need to contact us, use the following:

Email: info@luckdesign.jp

Telephone: +81-944-85-9536

Thank you!

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