

# Information for the Designer

With the following information, Wera can help you develop a functional solution to meet your heating needs.

- What is the heater used for?
- What size area (rectangular) do you want to heat?
- Where will it be used? What is the operating environment - temperature range, moisture conditions, exposure to corrosive materials, portable or stationary, potential safety issues?
- What are the maximum and minimum temperatures required and what accuracy of temperature control do you need? Example 1. Min temp. 20°C, max temp. 45°C, with 6 heating levels. Example 2. Min temp. 30°C max temp. 55°C, accurate to 2°C.
- Mains or battery powered. AC or DC (or both)?
- Does the product need to be washable?
- Does it need to be stretchable or breathable?

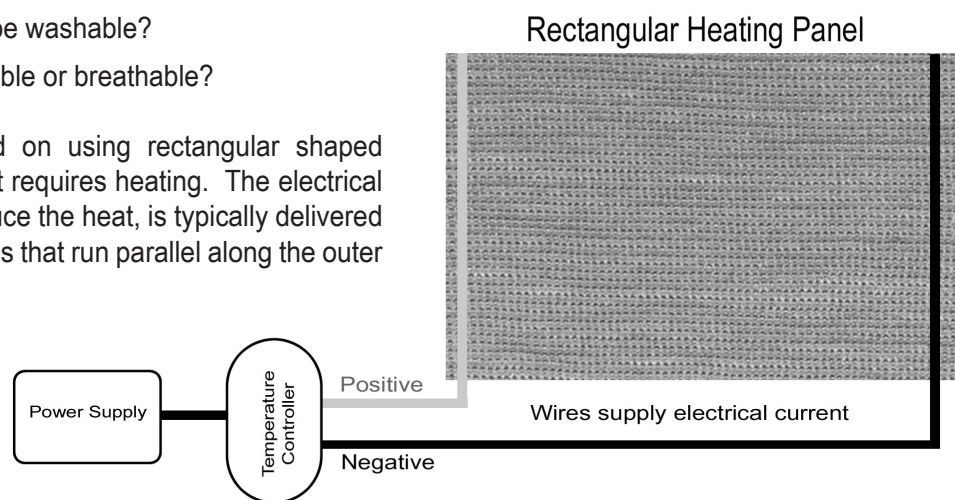
Designs are generally based on using rectangular shaped panels to cover the region that requires heating. The electrical current, which is used to produce the heat, is typically delivered to the panel via conductor strips that run parallel along the outer edges.

Connectivity solutions can be designed to suit each application. Wiring needs to be robust with a minimal level of intrusiveness. Many garment and apparel designs

require connectivity systems capable of stretching with the fabric. Wera has two options (patents pending) that meet stretch requirements up to 200 percent.

The power supply can come from two alternative sources - battery or mains (or both). A range of battery options, from Lithium-ion (Li-Ion) to Nickel Metal Hydride (NiMH), for portable applications are available, depending on the needs for battery life, power output, operating environment and cost.

For safe and accurate operation, most fabric heaters require some form of temperature control. The Wera™ fabrics provide the ability to generate heat with electrical power but typically electronic control is necessary to manage heat output in both accuracy and range.



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