

Beneli Discrete Heater

Product Facts

- Closed-loop time and temperature control
- Controlled process
- Adaptable for different applications
- Benchtop design
- Economic
- 100% electric

Safety Features

- Circuit breaker for current surges
- Emergency Stop
- Pinch points eliminated by the housing design
- An over temperature switch that shuts off all power in the event of an overheat condition
- Automatic cool-down circuit to prevent heat damage to integral components
- Circuit to prevent cycle initiation until the oven is up to temperature

The Beneli discrete-type table top heater is a new all electric processor that provides a controlled process for recovering a wide variety of Raychem heat-shrinkable products onto wire assemblies or other suitable substrates.

Assemblies are loaded into spring loaded jaws on either side of the heating chamber which takes the assemblies into the oven for a preset number of seconds, then returns them to the home position for removal.

Control Heating Zone

The Beneli processor has two ceramic heaters elements that are manufactured to a strict wattage specification. Consistent temperatures are controlled by a thermocouple embedded into the upper heating element connected to a closed loop temperature controller.

Controlled oven dwell time

The PLC sets the precise number of seconds the assemblies being processed will stay in the oven. It starts timing when the assembly enters the oven. It can be set from 1 to 9999 seconds for precise heating ensuring each assembly being processed sees the same precise amount of heat. The PLC is located on the front face of the control box.

Minimal skill requirements

There is a centering guide for aligning the assembly as well as the tubing or device being processed. The operator only has to center the assembly, then the tubing, and load it into the spring loaded jaws on either side of the heating chamber. The jaws grip and carry the assembly into the heating and back to the home position when the time has expired.



A protection circuit prevents the cycle from being initiated if the oven is not at the desired set point, preventing assemblies from being processed incorrectly. The small footprint allows the processor to be placed in close proximity to a welder, allowing a single operator to accomplish two tasks.

Versatility

The processor is designed to process a broad range of Raychem heat-shrinkable products up to 1 in. (25 mm) in diameter and 5 in. (127mm) in length. The infrared energy source is ideally suited to efficient processing of either single-wall or adhesive-lined tubing. Temperature and time can be controlled to accommodate a wide variety of products and substrates.

Available in Americas and Asia Pacific.

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Specifications and Dimensions

Electrical

Power Requirements	200 VAC, 1 \emptyset 208-240 VAC, 10 A
Heating Elements	2 ea. 500 watt ceramic heater; one top & bottom
Timing System	Crouzet PLC; 1 to 9999 seconds

Dimensions

Control box dimensions	23.2 cm [9"] L x 21.6 cm [8.5"] W x 16.5 cm [6.5"] H
Control box weight	2.1 Kg (9 lb.)
Heating Chamber Dimensions	61 cm (24 in.) x 61 cm (24 in.) x 61 cm (24 in.)
Shipping Weight	38.7 Kg [85 lb]

Tubing Sizes

Inside Diameter	Up to 2.5 cm [1"]
Length	Up to 12.7 cm [5"]

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