

## Model 19

### Belt Heater for Heat-Shrinkable Tubing Products

#### Product Facts

- Closed-loop speed and temperature control
- Continuous controlled process
- Adaptable for different applications
- CE approved for worldwide use
- Self-diagnostic circuitry
- Parts counter and hour meter



#### Applications

The Model 19 conveyor type processor is a reliable and versatile process heater which provides a controlled process for a wide variety of heat-shrinkable products.

Double-sided timing belts on either side of the upper and lower heating chambers draw the assemblies through a thermally controlled infrared heat zone, then through a fan-cooled zone before depositing them into the unloading bin.

The processor was designed to meet the requirements of the European Safety Directives and is CE approved, allowing for worldwide use.

#### Control Heating Zone

The Model 19 processor has two stamped foil heating elements that are manufactured to a strict wattage specification.

Consistent temperatures (ambient to 700°C) are controlled by a thermocouple embedded into the upper heating element connected to a closed loop temperature controller. An alarm light illuminates whenever the actual heating element temperature varies from the set point temperature.

#### Speed Control

The belt speed is selected using a 3-digit thumbwheel (on the front panel) via a closed loop motor controller and DC gear motor.

#### Minimal Skill Requirements

There are clearly marked guides for aligning the assemblies as well as the tubing or device being processed. The operator only has to center the assembly, then the tubing and slide it into the belts. The belts grip and carry the assemblies through the heating and cooling zones, depositing them into the unloading bin.

#### Versatility

The processor is designed to process a broad range of Raychem heat-shrinkable products up to 25 mm [1 in] in diameter and 178 mm [7 in] in length. The infrared energy source is well-suited to efficient processing of either single wall or adhesive-lined

tubing. Temperature and speed can be controlled to accommodate a wide variety of products and substrates.

#### Safety Features:

- Emergency Stop
- Automatic cool-down circuit to extend the life of the components
- Over-temperature switch that shuts off all power in the event of an overheat condition
- Lockout on temperature and speed controllers to prevent unauthorized changes

Available in:	Americas	Europe	Asia Pacific
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**Specifications and Dimensions**

**Model 19** (Continued)

**Electrical**

Power requirements	210-240 VAC, 20A, 1Ø, 50/60 Hz
Heating elements	2 X Standard = 1580W, Wide = 1660W, Narrow = 880W
Drive system	DC gear motor with closed loop motor controller; 3-digit thumbwheel
Air flow (cooling)	2 – 100 CFM fans in the upper heater housing
Operating temperature	Set Point (Heater Surface) - Ambient to 700°C, Through-put = 50° to 200°C

**Mechanical**

Conveyor belt system	Double sided timing belts; two on each side of the processor – pitch 9.5 mm [0.375 in]
Belt Speed	Up to 152 cm / min [5.0 ft / min]

**Dimensions cm [in]**

Processor dimensions	53 cm [21 in] W x 135 cm [53 in] L x 45 cm [18 in] H
Shipping dimensions	66 cm [26 in] W x 147 cm [58 in] L x 58 cm [23 in] H
Processor weight	56 Kg [120 lbs]
Shipping weight	86 Kg [190 lbs]

**Tubing sizes**

Tubing diameter (max)	Up to 2.5 cm [1.0 in]
Tubing length (max)	Up to 12.7 cm [4.0 in] Standard or 178 mm [7.0 in] with Model 19 - Wide

Version	Description	Part No.
Model 19 - Standard (3.75 in. Elements)	CLTEQ-M19-BELT-HTR	714529-000
Model 19 - Wide (6 in. Elements)	CLTEQ-M19-BELT-HTR-6IN	075135-000
Model 19 - Narrow (1.5 in. Elements)	CLTEQ-M19-BELT-HTR-SS	D43037-000

**Optional Attachments**

Floor Stand with wheels	IR-1900-FLOOR-STAND	889664-000
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