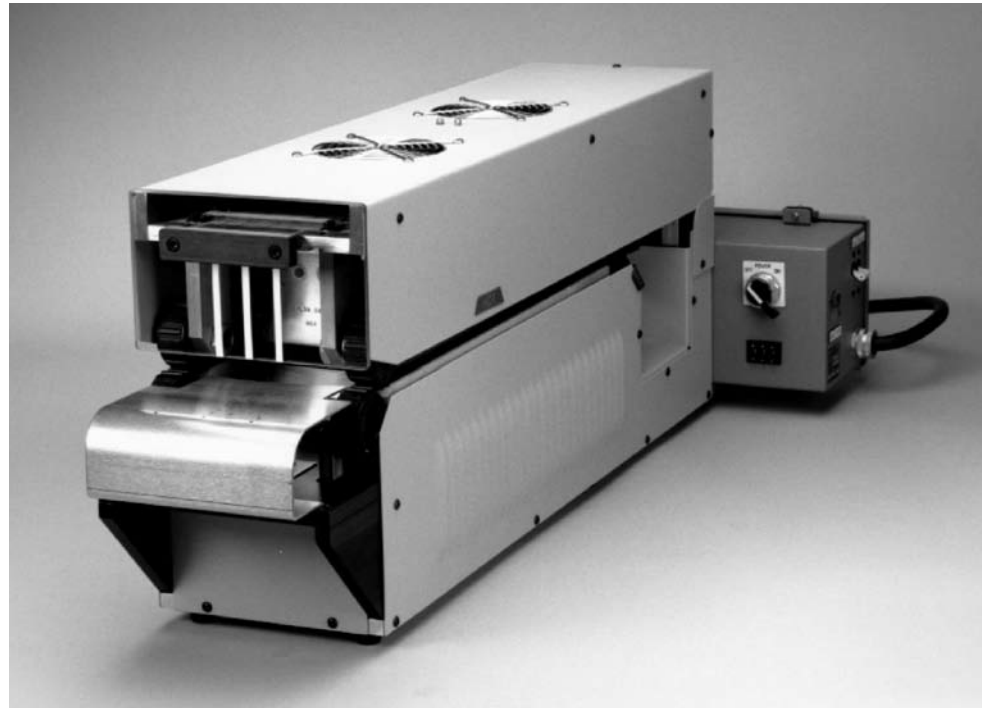


Model 16B

Tabletop Belt Heater

Product Facts

- Closed-loop speed and temperature control
- Continuous controlled process
- Adaptable for different applications
- Bench top design
- Heater operation and over-temperature alarm lights



Applications

The Model 16B is our smallest (tabletop) conveyor type processor which provides a controlled process for a wide variety of heat-shrinkable tubing products.

Double-sided timing belts on the top and bottom of the processing chamber draw the assemblies through a thermally controlled infrared heat zone and then through a fan-cooled cooling zone before depositing them into the unloading bin.

Controlled Heating Zone

The Model 16B processor has two stamped foil heating elements that are manufactured to a strict wattage specification. Consistent temperatures (ambient to 650° 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 via a closed-loop motor controller and DC gear motor.

Minimal skill requirements

There are clearly marked guides 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 slide it into the belts. The belts grip and carry the assembly through the heating and cooling zone, depositing them into the unloading bin.

Labor costs are reduced significantly because once an operator loads an assembly, that operator can begin preparing another assembly. The throughput rate is usually limited by the rate at which the operator can load assemblies into the processor.

Versatility

The processor is designed to process a broad range of heat-shrinkable products up to 19 mm [0.75 in] in diameter and 90 mm [3.5 in] in length. The infrared energy source is well-suited to efficient processing of either single-wall or adhesive-lined tubing. Heat output can be controlled to accommodate a wide variety of products and substrates.

Safety Features:

- Circuit breaker for current surges
- Pinch points protected by the housing
- Belts that do not pinch with significant force
- An over-temperature switch that kills power in the event of an overheat condition
- Automatic cool-down circuit to prevent heat damage to components

Available in:	Americas	Europe	Asia Pacific
	■		■

Specifications and Dimensions

Model 16B (Continued)

Electrical		
	Part No. 827429-000	Part No. 584313-000, 047143-000
Power Requirements	120 VAC, 1Ø, 50/60 Hz, 20 A	220 VAC, 1 Ø, 208-240 VAC, 15 A.
Heating elements	2 ea. 1000 watt stamped foil infrared with quartz face	
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	
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 288 cm / min [7.5 ft / min]	
Dimensions cm [in]		
Processor dimensions	48 cm [19 in] W x 109 cm [43 in] L x 33 cm [13 in] H	
Processor weight	41 Kg [90 lbs]	
Shipping dimensions	61 cm [24 in] W x 112 cm [43 in] L x 56 cm [22 in] H	
Shipping weight	68 Kg [150 lbs]	
Tubing sizes		
Tubing diameter (max)	Up to 19 mm [0.75 in]	
Tubing length (max)	Up to 90 mm [3.5 in]	
Version	Description	Part No.
Model 16B - 120 volt	CLTEQ-M16B-120V-3WIR	827429-000
Model 16B - 220 volt (4-wire)	CLTEQ-M16B-220V-4-WR	584313-000
Model 16B - 220 volt Mod. (3 wire with Transformer)	CLTEQ-M16B-220V-3W-M	047143-000