



The Global Leader in Thermal Technology



Built for Today. Ready for Tomorrow.



Standard Features

- 1050°C maximum temperature
- Independent over temperature control for each zone
- Type N thermocouple standard
- Unlimited recipe storage and scheduling
- WINCON™ Multi-Language Control Software
- Closed loop belt speed control
- Active Cooling
- Full atmosphere distribution across belt
- Voltage 208-240 VAC other voltage configurations available

Options

- Air purification/drying
- KPB (Platinel II) thermocouples
- ± 1°C across belt uniformity setup and test
- Ultrasonic belt cleaner
- N2 atmosphere (consult factory)
- Water Cooling
- Thermostatic water cooling temperature control
- Three color light tower
- 480 volt operation

Whether you're manufacturing thick film circuits, passive components, precision resistors, component termination or many other applications requiring exact atmosphere and temperature control, BTU provides the Fast Fire furnace system.

BTU's Fast Fire, due to its muffle-less design, offers reduced power usage by allowing rapid heating and cooling between use. Further, the design supplies excellent atmosphere flow for binder removal, coupled with precision temperature control, to meet the process control needed in thick film firing. In addition to the standard air atmosphere configuration, Fast Fire is available for temperature processing in air or nitrogen, nitrogen atmosphere operation. For cost-effective high temperature processing in air or nitrogen, Fast Fire is the choice.



- Copper thick film
- Precision resistors
- Noble metal thick film
- Passive components
- Component termination
- Glass passivation

Specification*	Fast Fire 9 inch	Fast Fire 14 inch	Fast Fire 25 inch
Atmosphere	Air	Air	Air
Conveyor speed	1 - 6 inches per minute	1 - 6 inches per minute	1 - 6 inches per minute
Conveyor width	9 in (23cm)	14 in (36cm)	25 in (64cm)
Heated length	90 in (229cm)	126 in (320cm)	126 in (320cm)
Heated zones	8	7	7
Cooling length	24 in (61cm)	48 in (122 cm)	48 in (122cm)
Overall system width	36 in (91cm)	36 in (91 cm)	48 in (122cm)
Overall system length	19 ft (5.8m)	24.5 ft (7.5m)	24.5 ft (7.5m)
Overall system height	60 in (152.4cm)	60 in (152.4cm)	60 in (152.4cm)

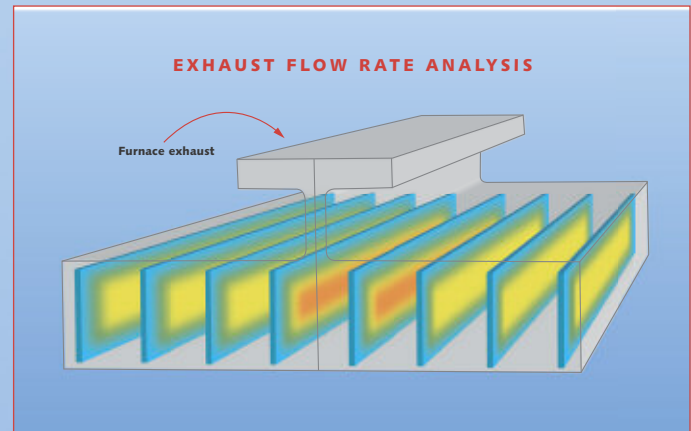
* All specifications are subject to change without notice



Atmosphere Control

BTU's Fast Fire furnace system features precise atmosphere control of the critical process parameters within the furnace. The gas control panel is designed for ease of use while minimizing operator intervention.

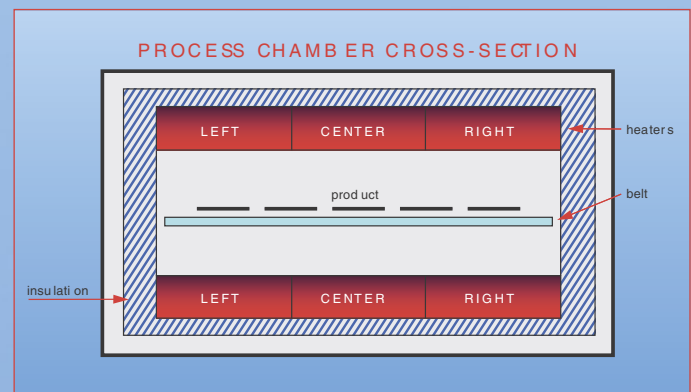
Firing section atmosphere is introduced at the cooling section and flows counter to product travel. Process emissions are removed from the process chamber via independent, venturi driven, exhaust plenum assemblies. The plenum assemblies extend, across the entire width of the process chamber, for uniform extraction of burnout gasses. Entrance and exit gas curtains are provided with top and bottom ratio flow control valves.



Temperature Control

BTU's muffle-less furnace maintains precision temperature control by utilizing segmented heated sections that are programmed and controlled by WINCON® Control software

- Left/center/right independent power trim standard on 25" belt widths
- Equipped with top and bottom heaters (side heaters optional)
- $\pm 2^{\circ}\text{C}$ across belt uniformity typical
- $\pm 1^{\circ}\text{C}$ across belt uniformity achievable in peak zones



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