



The Global Leader in Thermal Technology



Built for Today. Ready for Tomorrow.



Standard Features

- 700 °C maximum temperature
- ± 2 °C across belt uniformity independent of width
- Independent over-temperature control for each zone
- Type-N thermocouples
- Scalable to throughput requirement
- Unlimited recipe storage and scheduling
- WINCON™ multi-language software
- Closed-loop belt speed control
- Active cooling
- Full atmosphere distribution across belt
- Voltage 208-240 VAC

Options

- ± 1 °C across belt uniformity
- Air purification / drying
- KPB (Platinel II) thermocouples
- Ramp rates optimized for glass substrates
- Ultrasonic belt cleaner
- Three-color light tower
- Voltage 480 VAC
- N₂ atmosphere
- *In-situ* IR profiling
- Thermostatic water cooling temperature control
- Variable load detection and profile correction
- Side heaters
- Convection cooling

With well over 1,000 units shipped most of which are still in production today, the BTU Fast Fire™ in-line furnace is the trusted tool for thermal processing of touch screen and display glass. For firing of coatings, conductor, dielectric and frit pastes, or curing of sealing layers, the Fast Fire™ provides excellent atmosphere flow for binder removal, coupled with precise temperature control. In addition to air atmosphere, Fast Fire™ is available with nitrogen atmosphere, maintaining low oxygen partial pressure. The tool offers lower power usage than muffle-designs, because of rapid start-up and cool down between use. For glass substrates, temperature ramp rates are optimized for maximum yield without needlessly constraining throughput.



Firing/curing of :

- Conductor pastes
- Dielectrics
- Frit pastes
- Sealing layers
- Coatings

Specification*	Fast Fire 25 inch	Fast Fire 54 inch	Fast Fire 72 inch
Atmosphere	Air	Air	Air
Conveyor speed	5-30 inches per minute	5-30 inches per minute	5-30 inches per minute
Conveyor width	25 in (63cm)	54 in (137cm)	72 in (183cm)
Throughput (12"X16" glass sheet)	60/hr	180/hr	240/hr
Heated length	192 in (488cm)	192 in (488cm)	192 in (488cm)
Heated zones	8	8	8
Cooling length	84 in (213 cm)	84 in (213 cm)	84 in (213 cm)
Overall system width	48 in (122cm)	66 in (168 cm)	84 in (213cm)
Overall system length	33.5 ft (10.2 m)	33.5 ft (10.2 m)	33.5 ft (10.2 m)
Overall system height	60 in (152.4cm)	60 in (152.4cm)	60 in (152.4cm)

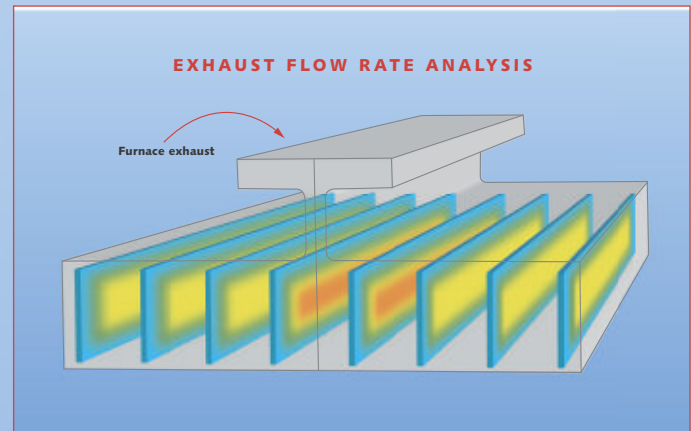
* All specifications are subject to change without notice



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.

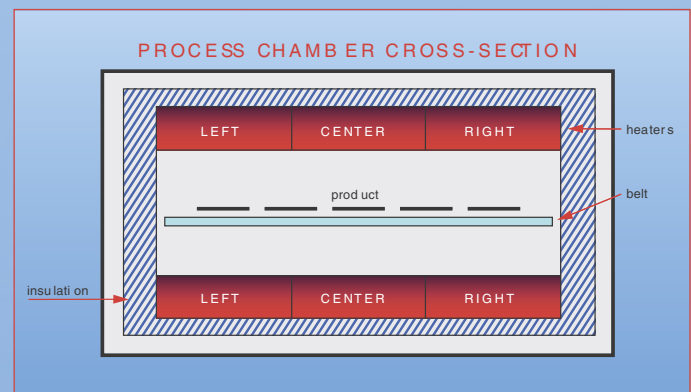
Firing section atmosphere is introduced at the cooling section and flows counter to product travel. Process emissions are removed from the process chamber via independent, venturi driven, exhaust plenum assemblies. The plenum assemblies extend, across the entire width of the process chamber, for uniform 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 and wider
- 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 optional



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