



TEMPERING SOLUTION

DESCRIPTION

The Flat Glass Tempering Furnace is designed to produce heat strengthened or fully tempered glass for a wide range of architectural and industrial applications. It processes clear, tinted, reflective, and hard-coated Low-E glass by heating each lite to the required temperature before rapidly cooling it with high-pressure air. This process significantly increases the glass's strength and resistance to thermal stress while maintaining its optical clarity. When broken, tempered glass shatters into small, less hazardous fragments for improved safety.

SPECIFICATIONS



94.49" x 165.35" (2400 x 4200 mm)

MAX GLASS SIZE

3.94" x 11.81" (100 x 300 mm)

MIN GLASS SIZE



3-19 mm

GLASS THICKNESS

HIGHLIGHTS

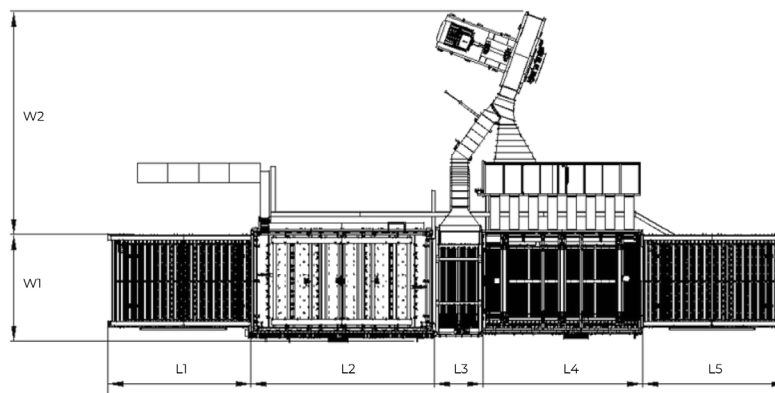
- ✓ Emergency Cooling System
- ✓ Automatic Cooling Nozzle Adjustment
- ✓ Maintenance Friendly Furnace Lifting
- ✓ Robust Structural Design
- ✓ Clear Float, Reflective and Tint, Glass Pattern, Low-E, Shower Door, Screen Print, Instrument, Home Appliance, Ceramic Frit Spandrel, and Railing Industries





TECHNICAL SPECIFICATIONS

FGTF	Glass Size		Furnace Size						
	MAX	MIN							
	W x L	W x L	W1	W2	L1	L2	L3 (opt.)	L4	L5
1630	62.99" x 118.11" (1600 x 3000 mm)	10.24" x 3.94" (260 x 100 mm)	106.30" (2700 mm)	200.79" (5100 mm)	135.83" (3450 mm)	181.89" (4620 mm)	67.72" (1720 mm)	157.48" (4000 mm)	135.83" (3450 mm)
2236	86.61" x 144.09" (2200 x 3660 mm)	11.81" x 3.94" (300 x 100 mm)	123.23" (3130 mm)	228.35" (5800 mm)	159.45" (4050 mm)	216.54" (5500 mm)	67.72" (1720 mm)	181.10" (4600 mm)	159.45" (4050 mm)
2436	96.06" x 144.09" (2440 x 3660 mm)	11.81" x 3.94" (300 x 100 mm)	141.73" (3600 mm)	228.35" (5800 mm)	159.45" (4050 mm)	216.54" (5500 mm)	67.72" (1720 mm)	181.10" (4600 mm)	159.45" (4050 mm)
2442	96.06" x 165.35" (2440 x 4200 mm)	11.81" x 3.94" (300 x 100 mm)	141.73" (3600 mm)	228.35" (5800 mm)	185.04" (4700 mm)	238.19" (6050 mm)	67.72" (1720 mm)	204.72" (5200 mm)	185.04" (4700 mm)

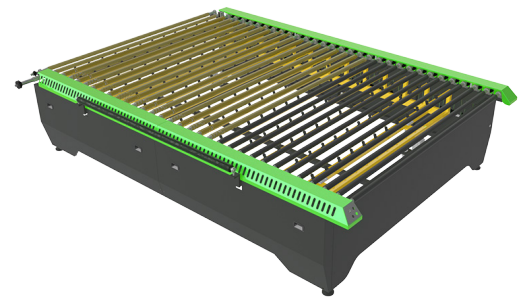


SYSTEM CONFIGURATION

INLET/ OUTLET CONVEYORS

The inlet and outlet conveyors simplify glass loading and unloading. A height-adjustable table helps position glass for optimal spacing, while idle side rollers make handling large glass sheets easier.

- ✓ Dual Idle Side Rolls for Easy Loading and Unloading of Large Glass

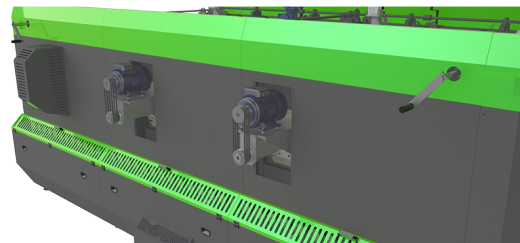


Conveyors

HEATING FURNACE

Constructed with high-quality insulation materials, the heating furnace provides uniform temperature distribution for consistent tempering quality. An optional convection heating system is available for processing soft-coated Low-E glass.

- ✓ High Temperature Resistant
- ✓ Independent Temperature Controlled System

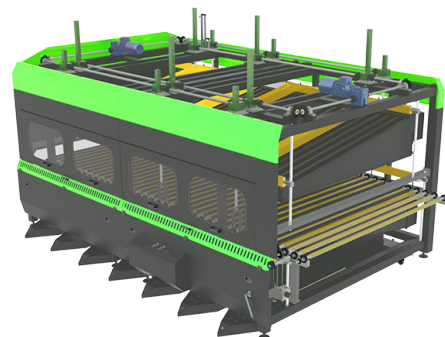


Heating Furnace

BLOWER AND COOLING SYSTEM

The high-performance cooling system delivers excellent glass flatness and optical quality. Variable-speed blower motors provide precise pressure control, while the lift-up upper section allows easy maintenance.

- ✓ Easy Maintenance Lift Top
- ✓ Driver Controlled Blower Motor Speed with Precise Pressure Adjustment



Cooling System Group



FEATURES

- ✓ Balanced Kevlar Coiled Roll
- ✓ Glass Optimization Software
- ✓ Automatic Length Measuring and Swing
- ✓ Recipe Management
- ✓ Operator Panel
- ✓ Top Unit Screw Jack Lift
- ✓ Remote Access System
- ✓ Energy Saving Mode
- ✓ Roll Drive Arm

TEMPERATURE CONTROL SYSTEM

Advanced software automatically adjusts heating zones based on the glass type and processing recipe, ensuring uniform heating and repeatable results.

AUTOMATIC COOLING NOZZLE POSITIONING

The upper cooling nozzles automatically adjust to the glass thickness, providing consistent cooling while reducing the risk of breakage and surface distortion.

OPTIONAL FEATURES

- ✓ Auto Heating System with Timer
- ✓ Energy-Saving Cooling Blower

BENDING UNIT

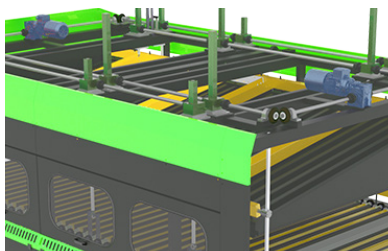
The servo-controlled bending unit produces tempered bent glass with precise, repeatable bending radii. Designed for glass thicknesses from 5–12 mm, the system accurately bends glass as it exits the heating furnace for consistent, high-quality results.

TOP CONVENTIONAL

The top convection system is designed to temper soft-coated Low-E (0.02) glass at high quality and production speeds. A specially engineered upper blower delivers convection heating for more uniform heat transfer and improved tempering performance.



Bending Unit



Auto Cooling Nozzle