THE JFS "INCON" GAS INFRARED FLAT GLASS TEMPERING SYSTEM

LOW OPERATING COST
25 TO 30% INCREASE IN PRODUCTION RATES
CAN BE RETROFITTED TO EXISTING SYSTEMS

QUALITY TEMPERED GLASS
LOW "E" HEAT TIMES BELOW 40 SECONDS PER MM
ALL SIZES AND GLASS THICKNESS AVAILABLE

"INCON" DEMONSTRATION SYSTEM
LOCATED AT THE JFS FACILITY

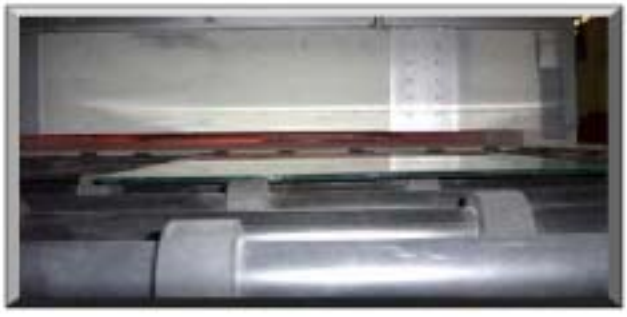
The Patent Pending, JFS Gas Infrared "INCON" Single Bay, Flat Glass Tempering System produces quality, tempered glass at rates from 25 to 30 percent faster than standard tempering systems.

The heating system can save as much as 50 percent in heating energy cost when compared to any other available tempering system. The gas infrared furnace-heating chamber consumes less than 4 kw of electricity during operation and the furnace can be brought to operating temperature in a matter of minutes with no electric peak demand charge.

With an optional UPS system, the "INCON" tempering system can operate for up to one hour, tempering 4 mm glass during power outages.

Production times for 6 mm clear glass are approximately 170 seconds or less than 30 seconds per mm of thickness. This means as many as 21 loads per hour of 6 mm glass compared to 15 loads for a typical tempering system.

Soft coat, pyrolytic, Low "E" coatings are heated at rates below 40 seconds per mm of glass thickness with no aspirators or additional equipment.



Further energy cost savings are realized with the JFS high efficiency sweep quench utilizing variable speed, computer controlled quench fans for precise air control.

The Patent Pending, "INCON" system incorporates, independent, computer controlled, adjustable upper and lower heating bank height to optimize all operating parameters and types of glass. In the event glass should break in the furnace, the lower bank can be lowered for evacuating the broken glass. Down time is in minutes not hours.

EXAMPLE FOR GLASS HEATING ONLY / 100% LOADING

	LOAD SIZE		HEAT TIME	COST OF			HEAT TIME			COST OF			YOUR BOTTOM LINE	
	WIDTH	LENGTH	SEC / MM	ONE KW/HR			SEC PER MM			100,000 BTU/HR				
	84	120	40	$0.10			30			$0.65				
GLASS THICK. IN MM	LOAD SIZE WIDTH	LENGTH	STANDARD ELECTRIC PROD /YR FT/2	ELECTRIC COST / YR	ELECTRIC SALES@ $1.00 FT/2	ELECTRIC SALES MINUS ENERGY COST	INCREASE PROD %	"INCON" INCREASE FT/2 HOUR	"INCON" NEW GAS PROD /YR FT/2	NEW GAS COST / YR	SALES@ $1.00 FT/2	SALES LESS ENERGY COST	INCREASE PROD FT/2-YEAR	YEARLY "INCON" SALES REVENUE
4.0	84	120	3,276,000	$47,616	$3,276,000	$3,228,162	25.00%	525	4,366,000	$24,039	$4,390,000	$4,343,962	1,092,000	$1,115,760
5.0	84	120	2,620,800	$47,616	$2,620,800	$2,572,962	25.00%	420	3,494,400	$24,039	$3,494,400	$3,470,371	873,600	$897,399
6.0	84	120	2,184,000	$47,616	$2,184,000	$2,136,162	25.00%	350	2,912,000	$24,039	$2,912,000	$2,887,962	728,000	$751,799
10.0	84	120	1,310,400	$47,616	$1,310,400	$1,262,562	25.00%	210	1,747,200	$24,039	$1,747,200	$1,723,162	436,800	$460,599
12.0	84	120	1,092,000	$47,616	$1,092,000	$1,044,162	25.00%	175	1,456,000	$24,039	$1,456,000	$1,431,962	364,000	$387,799

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