

## TAMGLASS – Finland

### ProConvection-2130-C-20-L, HTF3

### 3,8 – 19 mm, 2100 x 3000 mm, Left – Right

Glass tempering furnace

Year: 2003

With convection (Low-E glass)

Noise reduction cabin included

In good condition. Dismantled and stored in warehouse.

ESG Ofen / Glashärteanlage

Baujahr: 2003

Mit Konvektion (Low-E Glas)

Schallschutzkabine inkl.

In gutem Zustand. Demontiert und eingelagert.

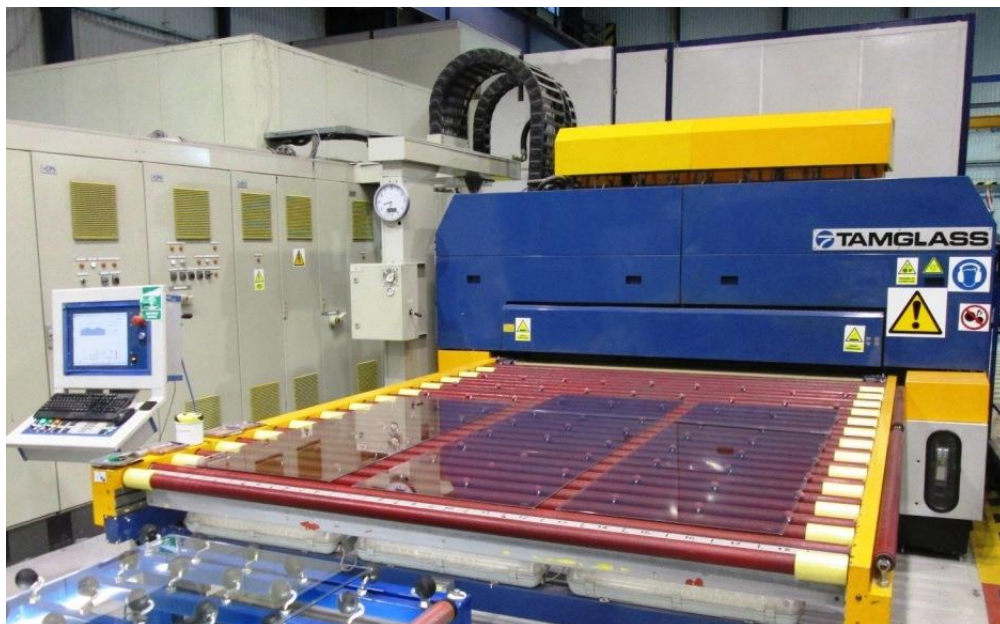
Piec do hartowania szkła

Rok budowy: 2003

Z konwekcją (szkło Low-E)

Z kabiną redukującą hałas

W dobrym stanie technicznym. Zdemontowany i zmagazynowany.



- Data for a new furnace. They may differ from the current actual parameters of the furnace.  
We do not take any responsibility for the data provided by the manufacturer.
- Die Daten beziehen sich auf einen neuen Ofen. Diese können von den aktuellen, tatsächlichen Ofenparametern abweichen.  
Wir übernehmen keine Verantwortung für die vom Hersteller angegebenen Daten.
- Dane dotyczące nowego pieca. Mogą one odbiegać od aktualnych, rzeczywistych parametrów pieca.  
Nie bierzemy jakiegokolwiek odpowiedzialności za dane podane przez producenta.

## TECHNICAL SPECIFICATION AND DATA

# TAMGLASS HORIZONTAL CONVECTION FURNACE *ProConvection*<sup>TM</sup>-2130-CTS-20

<b>Type of operation:</b>	1-stage		
<b>Glass thickness range:</b>	3.8...19 mm tempering		
<b>Loading area:</b> 3.8 mm and over	2100 mm x 3000 mm		
<b>Maximum glass size:</b>	<b>ANSI Z97.1-1984</b>	<b>ECE R43</b>	
4.7 mm and over	2100 mm x 3000 mm (3300)*	1000 mm x 1500 mm	
3.8 mm    "-	1500 mm x 2500 mm	800 mm x 1400 mm	

\* Single sheets 300 mm longer can be tempered with reduced production rate

<b>Minimum glass size:</b> 3.8 mm and over	100 mm x 250 mm tempering
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**Maximum production rates with K = 100 %**, with clear float glass.

4 mm	182 m <sup>2</sup>
5 mm	151 m
6 mm	126 m <sup>2</sup>
8 mm	94 m <sup>2</sup>
10 mm	75 m <sup>2</sup>
12 mm	57 m <sup>2</sup>
15 mm	37 m <sup>2</sup>
19 mm	31 m <sup>2</sup>

In actual operation, the production rates reach 50-85 % of the maximum and depend on the glass dimensions, edgework quality, and loading area utilization.

**Minimum distance of sheets from each other is 30 mm.**

### Environmental conditions:

Temperature	20...40 °C
Relative humidity	< 80%

### Installed power at sea level:

Heating and drive		612 kW
Convection Compressor		55 kW
Blowers	1 x 160 kW 1 x 160 / 53 kW	320 kW
Total		987 kW

**Preheating time** from 20°C to 700°C is abt. 2.5 h.

**Outcoming glass temperature** is environmental +(20 ... 60)°C.

### Dimensions of the plant:

Roller diameter	95.25 mm
Roller distance	120 mm
Total length	16.1 m
Total height	3.1 m
Working height	880 mm
Total width	4.9 m + abt. 7 m x 8 m for blower room

## Tamglass ProConvection™-2130-CTS-20:

**Output rates, energy consumption and max. glass sizes:**

**Table 1, Clear float \*:**

Glass thickness mm	ProConvection™ Output rates Loads/h	ProConvection™ Energy consumption kWh/m <sup>2</sup>	Max. Loading area mm	Max. Glass size mm
			(6,3 m <sup>2</sup> )	
4	29	3,4	2100 x 3000	1500 x 2500
5	24	3,5	2100 x 3000	2100 x 3000
6	20	3,5	2100 x 3000	2100 x 3000
8	15	4,4	2100 x 3000	2100 x 3000
10	12	5,3	2100 x 3000	2100 x 3000
12	9	6,8	2100 x 3000	2100 x 3000
15	7	8,5	2100 x 3000	2100 x 3000
19	5	11,3	2100 x 3000	2100 x 3000

**Table 2, Planitherm Futur 1.1, Soft Coated Super Low-E (E=0.04) \*:**

Glass thickness mm	ProConvection™ Output rates Loads/h	ProConvection™ Energy consumption kWh/m <sup>2</sup>	Max. Loading area mm	Max. Glass size mm
			(6,3 m <sup>2</sup> )	
4	18	4,1	2100 x 3000	1100 x 2000
6	13	4,3	2100 x 3000	2000 x 3000

\*Continuous production with 65% loading efficiency.

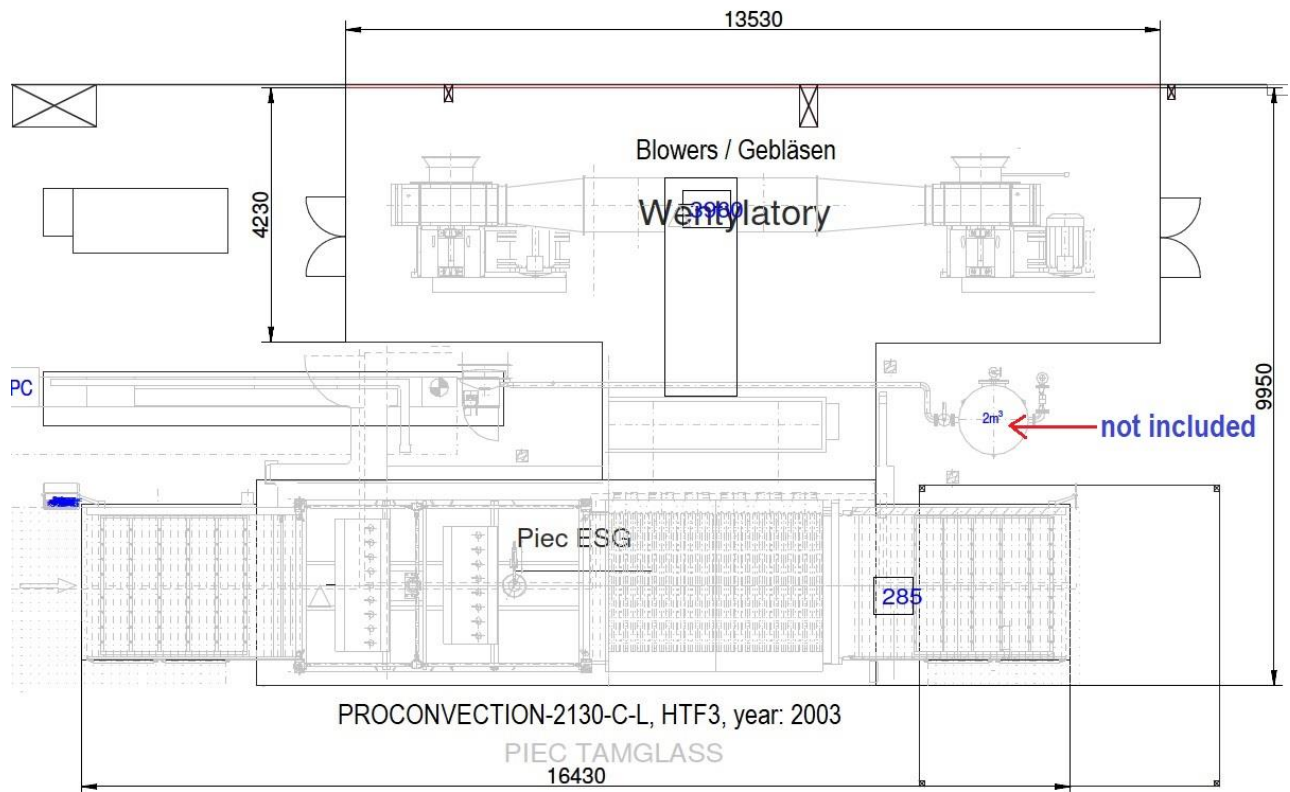
Tempering acc. to ANSI Z97.1-1984 standard

Energy consumption and output rates depend on glass size and edgework quality.

(Max. output with window size 800 x 1200mm)

Outcoming glass temperature is environmental +(20 – 60)°C

Tamglass reserves the right to alter specification without notice



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