

Efficient tempering: **MAZZAROPPI's** user-friendly furnace solutions

Addressing labour shortages and rising energy costs, MAZZAROPPI's innovative furnaces combine user-friendly design with energy efficiency. With advanced technologies like M OptiConvection and M Efficiency 5.0, its furnaces offer automatic control and significant energy savings, making them ideal for modern glassworks while ensuring both sustainability and ease of use.

User-friendly and energy-efficient, Mazzaroppi furnaces take tempering into the future with concrete answers that meet the needs of companies and glassworks to make them work better and more. A general shortage of labour and rising energy prices make up the combination that has brought many companies in the glass industry to their knees in recent years. This is why Mazzaroppi, an Italian





company active in the glass tempering sector since 1958 and known throughout the world, has focused its efforts on making its furnaces more user-friendly and less energy-intensive.

GUIDED BY INDUSTRY 4.0

Says Antonio Mazzaroppi: "The solution to these problems is to design the furnaces with a new vision, focusing on energy saving and integrating them in the context of Industry 4.0, so that their performance can be monitored more and more easily. In addition, special attention must be paid to the software programming, which must

ENERGY SAVINGS

M HEAT
INTELLIGENT
ZONE HEATING

M START&STOP
JIT IGNITION
0° TO 680° IN 1H

M EFFICIENCY 5.0
POWER&PEAK OPTIMIZING
SOFTWARE

INTELLIGENT SOFTWARE

M ADAPT
THICKNESS CHANGE
RESPONSIVE SYSTEM

M SMARTMOVE
ADAPTIVE
GLASS MOVEMENT

M OPTICONVECT
HIGHLY OPTIMIZED
CONVECTION PROCESS



not only be powerful, but also have an interface as user-friendly as that of a smart-phone.”

Mazzaroppi furnaces are equipped with intelligent software that is able to regulate and manage the operation of the furnace almost automatically, starting from a few commands given by the operator. The company’s proprietary technologies, such as M OptiConvection - Optimised Convection Process, M SmartMove - Adaptive Glass Movement or M Adapt-Thickness Change Responsive System, are designed to maximise the furnace’s automatic control systems and make it very easy to manage

- glass size changes being a good example here.

THE MOST ENERGY-EFFICIENT SOLUTIONS IN GLASS TEMPERING

Mazzaroppi has also developed specific technologies to ensure energy savings: from M Heat-Intelligent Zone Heating, which allows the oven to ‘recognise’ the areas occupied by glass and heat only those parts, to M Efficiency 5.0-Power&Peak Optimising Software, which allows for better energy peak management. Then there is M Start&Stop - JIT ignition: 0° to 680° in 1H, which allows the oven to be switched off every even-

ing and quickly switched on again the next morning. As Marketing Manager Federico Mazzaroppi explains: “All this reduces inefficient consumption. Even a small or medium-sized glassworks can afford to have its own oven, with all the advantages of autonomy that this brings. Our design approach, the Energy Saving Approach, was created precisely to produce machines that are sustainable for the environment and for the company.”

SAVING ENERGY

Thanks to this philosophy, besides being always easy to use, Mazzaroppi hardening ovens are optimised for en-

ergy-efficiency, requiring up to 70 percent less energy than competing solutions. Mazzaroppi Engineering will be present at GlassBuild America: Hall C - Stand 52019

Mazzaroppi Engineering srl



MAZZAROPPI
HIGH PERFORMANCE. ALWAYS

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