MAPPI: Friendly to glassmakers, the environment and energy savings

As concern for the environment gains new traction, so too does MAPPI's commitment to environmental sustainability – combined with the company's appreciation for the need to use energy intelligently, reducing waste.

In recent months, these issues have gone from important to urgent with the same urgency that's now beginning to approach an emergency, so much that every business owner today knows that both energy efficiency and compliance with environmental regulations are priorities for which you need someone to rely on. A friend, perhaps.

For Mappi, these requirements were not the surprise of a few months - as the company has counted them among its core values for years.

Indeed, solutions such as MHS, ESS and IHS have reduced the energy consumption of the tempering furnace by up to 35 percent, characterizing Mappi's ATS and FOX furnaces for decades already. Here, the choice of high-quality, long-lasting materials, including that of avoiding the use of sulphur dioxide (SO2) - are all environmentally-friendly solutions.

That said, it is not just this innovation that makes these furnace leaders recognized around the world. Rather, it is their coordinated system and, most importantly, the driving idea behind it – which is to put themselves in the glassmaker's shoes to give their best.

We are imagining a **Glass-processor that uses an ATS 4.0 one shift, Monday to Friday from 8 a.m. to 5 p.m.**

less POWER > less POWER COSTS

RAPID SWITCH OFF > less DAILY CONSUMPTION

LESS *is* MORE > 35 % less ENERGY COSTS

RAPID SWITCH ON > daily 1,5 HOUR OF ENERY SAVING

MAPPI > EFFICIENCY, QUALITY AND FLEXIBILITY

THE FRUIT OF INNOVATION

Innovations developed over the years by Mappi's Research & Development Center now ensure that furnaces focus their heat only where the glass is – heating it as evenly as possible and preventing the rollers from overheating. The choice of insulating materials that minimize heat loss, along with automated set-up for tempering all types of flat glass, comprise just a few innovations that mark the difference between a Mappi furnace and any other - or between a glassmaker who's discovered Mappi and one who hasn't.

DOING THE MATH

When doing the math here, a single example will probably clear things up quite satisfactorily.

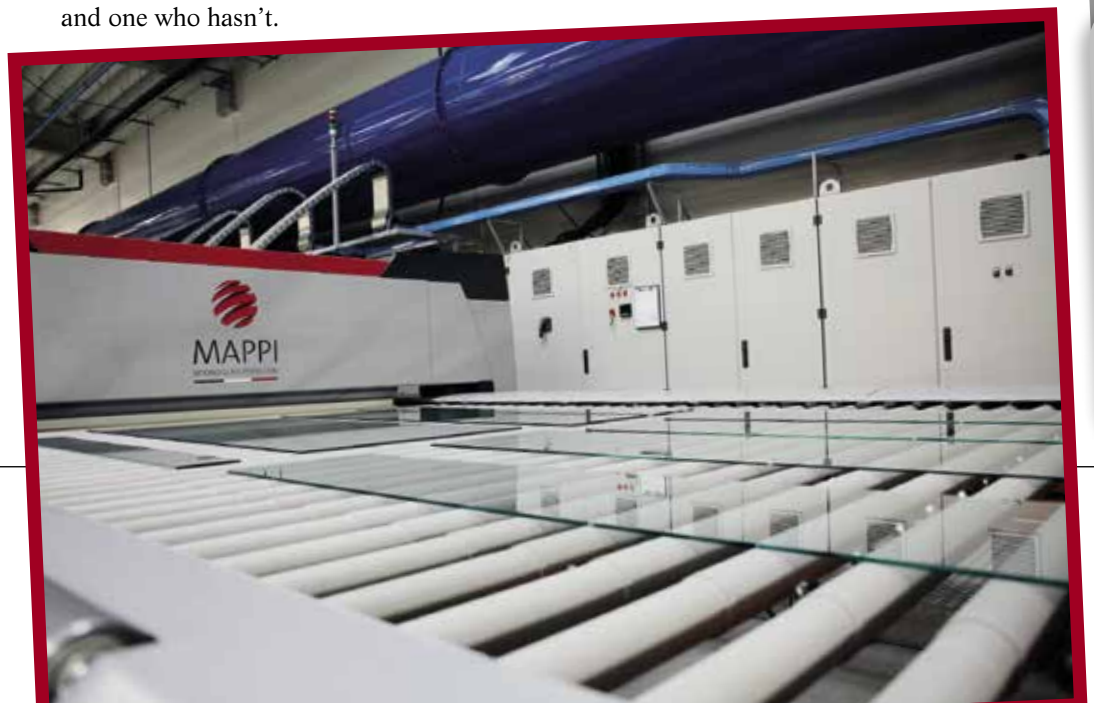
1) Mappi furnaces are designed to decrease energy peaks, thus reducing the installed power, namely the Kw required by the glassworks to the energy supplier, i.e. at a cost that is invariably paid, regardless of actual consumption;

2) Inside the heating chamber, the software identifies the position of the glass – heating only where necessary. All else being equal, this results in savings of up to 35 percent, preventing the rollers from overheating;

3) At the end of the day, the tempering furnace can be turned off instantly and without waiting for the gradual cooling process that would otherwise be standard, i.e. taking about an hour with the furnace still on and consuming energy, albeit without producing anything;

4) The same happens in the morning, thanks to a significantly shorter switch-on time. When cold, the Mappi furnace can be turned on in an hour, or in 30 minutes if it has been running the day before. Given this peculiarity, it is estimated that the Mappi furnace can save about 1.5 hours per day in energy consumption;

5) Another advantage claimed by Mappi Glassmakers is that the furnace produces more, with greater efficiency and with quality standards that will exceed those required by EC regulations. In addition, thanks to the latest Supertemper innovation, it appears that entering the market for E30-certified fire-resistant glass is possible by simply adding another option to the furnace.



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