

MAZZAROPPI's TP Compact revolutionises glass tempering

With tempering furnaces typically perceived as being beyond the possibilities of a small or medium-sized glassworks, MAZZAROPPI's TP Compact now best embodies all the company's values and strengths. Not only. It carries every advantage its customers have come to appreciate - also leaving various preconceptions roundly demolished, like the following:

LARGE TEMPERING FURNACES MAXIMISE PRODUCTION

Mazzaroppi firmly believes that it's the furnace that must work for the glassworks and not the other way around. The TP Compact is a compact furnace with variable load sizes which range from 1300 x 3200 (1.3 metres x 3.2 metres and 1.9 metres x 3.6 metres), including some sizes in between. Total plant length stands at approximately 17/18 me-

tres, depending upon type. But there's more. The entire electrical system - most notably the fan cabin - is located alongside the machine, with no need for installations outside the plant. More particularly, the design of the TP Compact stands out as a furnace for small and medium-sized glassworks that lack the production volume to justify purchasing a classic 2500 x 5000 tempering furnace. The current market trend is to offer larger machines - often with lower quality components and at reduced prices. However, such apparent savings are quickly rendered superfluous after one has considered derivative costs from the

A new glass tempering furnace that has MAZZAROPPI beaming with pride, the company's new TP Compact hasn't just succeeded in improving the performance and efficiency of its previous model of the same series - it also strives to completely disrupt every traditional conception of tempering furnaces.





significant work of adaptation to one's factory, coupled with today's soaring energy bills - especially for classic hardening furnaces that must remain constantly on to mitigate the risk of damage caused by elevated temperatures.

TEMPERING FURNACES CAN'T BE TURNED OFF

This is one of the main problems that lead small

and medium-sized glassworks to decide against purchasing tempering furnaces. If the furnace can't be turned off - thus consuming constantly - then the sole cost justification remains that of leaving it continuously on - which would mean, in some cases, compromising the regular production of the glassmaker. Here Mazzaroppi has solved the problem with its TP Compact because the machine can be switched off daily and will take just one hour to reach the necessary temperature of 680° after being switched on. That time will drop to half an hour if the furnace has been working the previous day, which optimises consumption given that the oven is only kept on as needed, i.e. when the machine is actually producing and so generating value.

POWERFUL TEMPERING FURNACES CONSUME MUCH ENERGY

Perhaps, in terms of energy optimisation, this model is Mazzaroppi's greatest suc-

cess to date. In fact, it's thanks to the new TP Compact's intelligent electronic management system that the company has managed to reduce consumption by a further 30 percent in comparison with the model's predecessor - which means the furnace is estimated to consume less than half the energy consumed by many European competitors and about a third of what's consumed among many Asian competitors. Proportionally, also, the electricity required to keep it running is significantly less. Indeed for any company that's after investing in its future, a TP Compact oven will potentially translate into savings that reach several thousand Euros a month. Besides, no infrastructure adaptation is required to enable installation - which also reduces start-up costs.

TEMPERING FURNACES ARE SLOW TO CHANGE THICKNESSES

Many small glassworks don't benefit from using a conventional tempering furnace. The time required

for thickness changes will force them to organise production by dedicating an entire day to one thickness alone - a feat impossible for small and medium-sized glassworks that must focus upon the individual piece as opposed to large quantities. Instead, the TP Compact offers a thickness change in no time at all - without interrupting the workflow. It allows even small glass manufacturers to conquer a market that often requires each company to perform many different processes while often needing only a few pieces per process. Thus, the TP Compact allows even small glassworks to purchase the furnace they've always desired - without disrupting production.

Indeed the product was designed for a specific segment of entrepreneurs and created with their daily needs in mind. Maintenance costs are also very low as compared to the market average. Here, in fact, Mazzaroppi chose to invest in the quality of the materials and design to only put machinery on the market that would practi-



TP COMPACT

 MAZZAROPPI

200kW



cally never require maintenance while lasting up to 30 years. Also, the safety and reliability of the brand translates into continuous production and no surprises for the customer. Consequently instead, customers can dedicate themselves exclusively to quality and production management - a feature that's es-

pecially appreciated by the company's numerous German, Austrian and Swiss customers.

The TP Compact has been studied, designed and built with such small and medium-sized companies in mind which have never dared, until now, to engage directly in glass tempering

- either owing to the considerable costs of adapting and using a tempering furnace or because they felt they lacked the production volume to justify such an investment. Here TP Compact is a purchase every glassworks can consider in order to grow sustainably while offering customers

superior quality products over which it has total control. For any glassworks this could represent a choice of autonomy over third-party companies to which small entrepreneurs often must entrust their tempering. As such, investment in a TP Compact could represent viewing one's company with fresh perspective while making plans for the next ten, twenty, thirty years and finally becoming the master of one's work in a manner that no longer depends upon large glassworks for delivery times and price management.

For any employer, reclaiming one's time and taking complete control of workflows is a fundamental choice. It means deciding to conquer one's market while expanding one's customer base by working on the competitiveness of one's offer. It means working for success, which is precisely what Mazzaroppi is after - the success of its customers.

 **Mazzaroppi Engineering**



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HIGH PERFORMANCE. ALWAYS

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