

ARCHITECTURE AND APPLIANCES

glaston



Partnership
for Decades

Glaston RC Series

Flat tempering furnaces

Glaston RC Series

Looking for a versatile tempering machine? Three reasons for choosing a Glaston RC Series furnace:



1.

Whatever your business, it delivers

- Temper all glass types
- Process multiple glass sizes flexibly
- Save energy while improving quality



2.

Get constant high quality and high output

- Control the process easily with iControlL
- Say goodbye to loading delays
- Minimize remakes



3.

Grow your business for a lifetime

- Stay future-proof with add-ons and options
- Trust it to serve you for decades
- Always find service and support quickly



“This furnace will not only enable us to temper coated glass quicker, it will also give us more capacity to grow in the future. When we invested in our first toughening furnace over 10 years ago, we had no hesitation in buying the Glaston furnace.

This furnace has provided us with years of reliable operation.”

Paul Buckley,
Managing Director,
PJB Glass Group,
UK

RC Series: your all-around furnace for top-quality tempering



Whatever your business, it delivers

In the glass tempering business, versatility and flexibility are key to meet growing customer demands.

The RC Series is designed to process all temperable glass types. It can be configured to meet even the highest capacity requirements with different convection options.

The RC Series is always tailor-made to match specific customer requirements.

Partnership for Decades



Always deliver superior quality

Typically, increasing your production rate means compromising on the glass quality. Thanks to the new RC Series heating system, the tempering line capacity is exactly what is promised – always. The new RC Series includes even more heating accuracy and controllability than the previous generation. The result is consistent and

better quality glass.

Another factor affecting the quality of the glass is the heat it receives from the furnace rollers. A lack of roller heat control leads to uneven heat transfer and thus poor quality. The RC Series solves this problem with an *automatic roller heat control system*.



Master the process with ease

In our opinion, glass processing should not be rocket science. We have put a great deal of effort into creating iControlL, the most easy-to-use process control system in the industry.

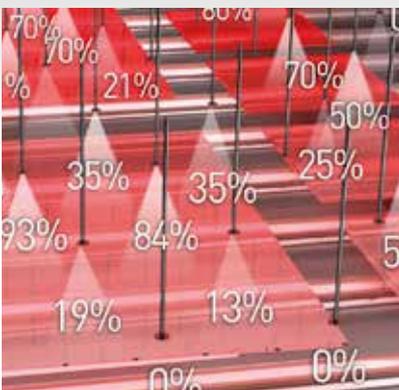
We have minimized the need for operator input. Now you can basically control the entire process with just one click.

Track and improve the reduced production costs from Glaston Insight online reports. Reports are available to you always, wherever you are.





Top performance with a quick payback time



Accurate heat control

Focusing and profiling heat accurately is key in making top-quality glass, particularly Low-E.

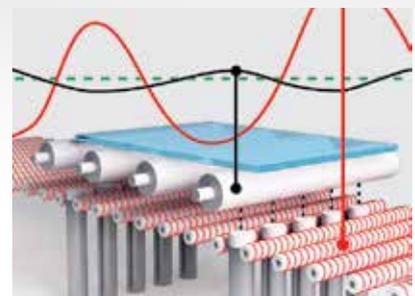
Vortex Plus can control the heat in lengthwise groups, which run parallel to the glass flow. Lengthwise control, patented by Glaston, is essential when running Low-E glass.

Vortex Pro has an even higher number of controllable groups that increase heating accuracy, and above all, reduce energy consumption by focusing the heat on the glass alone.



Performance package

For high-performance tempering, the RC Series features a capacity and capability booster with bottom convection. This **performance package** increases the line capacity by about 10%. It also features more heating control, which makes the line operation easier in constant production.



- Set roller heat level
- Heater firing
- Roller temperature

Roller heat control (RHC)

The intelligence of **RHC™** is based on roller temperature control with an accurate measurement system assembled underneath the furnace rollers. The system transmits roller heat information to the furnace control system unit and automatically adjusts the bottom heat level to balance the roller temperatures. RHC eliminates any roller heat disturbance and raises the RC Series glass production quality to an even higher level.



Intelligence is built on deep Insights



Intelligent quench

Energy consumption is a key factor affecting a glass processing plant's profitability. The RC Series includes an **intelligent quench** solution, which reduced the required power for the blower motors. This reduces the line's energy consumption by up to 10%, which makes a big difference on plant profitability.



Process Assistance

The new RC Series offers an assistant to all operators. The New **Glaston Insight Assistant™** option automatically adjusts the furnace settings based on the measured glass size and loading pattern information.

This greatly assists operators in their day-to-day activities and helps them use the most suitable heating settings for their production.



Stay connected

Glaston Insight Online Reporting™ brings new and smart tools to improve your machinery productivity, uptime and, most importantly, your profitability.

With Glaston Insight reporting, you can monitor your heat treatment machinery online and get immediate feedback from production, quality and maintenance, wherever you are.

Partnership for Decades

STANDARD FEATURES:

Advanced heating and quality control

- **Vortex Plus:** Capability to temper all Low-E glasses. Includes patented lengthwise convection control
- **SMC:** Smart movement control for optimized capacity and glass flatness



OPTIONAL FEATURES:

Performance

- **Performance package:** Capacity and capability booster system with bottom convection (CGSB), crosswise divided heaters and the automatic roller heat control (RHC) system
- **Vortex Pro:** Convection control system with independent nozzle control for ultimate heating accuracy and lower energy consumption
- **2:** Second heating chamber for increased capacity

Intelligence and automation

- **Insight Reporting:** Glaston Insight online reporting system with quality reports (QMS) and Glaston Insight mobile application
- **iControl:** Cutting-edge automation system, including easy-to-use touch panel control
- **Remote VPN:** System for remote support

Intelligent quenching

- **New quench:** Intelligent quench design for optimal anisotropy and optical quality
- **HS8:** Heat strengthening system for clear glass up to 8 mm according to EN 1863
- **BMON:** Quench blower vibration monitoring system
- **S:** Energy efficient, up to 19 mm tempering with frequency converter(s)



Process monitoring

- **Insight Intelligence:** Extensive process, production and maintenance reporting system that includes IR scanner (SCA), energy consumption and process/production efficiency measurement system
- **Insight Assistant:** Automatic heating profiling
- **Insight Assistance Pro:** Intelligent online process assistance
- **CAM:** Video surveillance system that enables easy processing monitoring
- **OP1 Panel:** Operating panel on loading end
- **V:** Additional process screen on unloading table

Advanced quench options

- **HS10/12:** Heat strengthening up to 10/12 mm
- **N85:** Noise reduction cabin around the chiller LpA = 85 dB(A)
- **NC:** Covers around the chiller
- **VC:** Cullet conveyor under quench section
- **M:** Cullet removal lifting conveyor with cullet container

Absolute beginner or seasoned expert – everyone loves Glaston RC Series

“Commissioning of the furnace went exceptionally well. It took just three weeks to put everything together. Glaston’s lead engineer who took care of the commissioning and acceptance tests was very knowledgeable.”

Andy Maslin
Managing Director,
Tufwell,
UK

“The guy who trained our operators was terrific! The software was also much easier than we thought it should be. So, we were able to learn how to use the furnace very quickly. Of course, you have to make some mistakes yourself in order to really learn – but overall, everything was really easy. Once the machine was up and running, tempered glass just started to come out.”

Rickard Schönfeldt,
CEO,
Systemglas,
Sweden

“When the tempered glass started coming off the line, all we could say was –
‘Wow!’ No complaints.”

Mariusz Lojowski,
President,
Quartz Glass & Mirror,
U.S.A.



Glaston Genuine Care keeps you performing

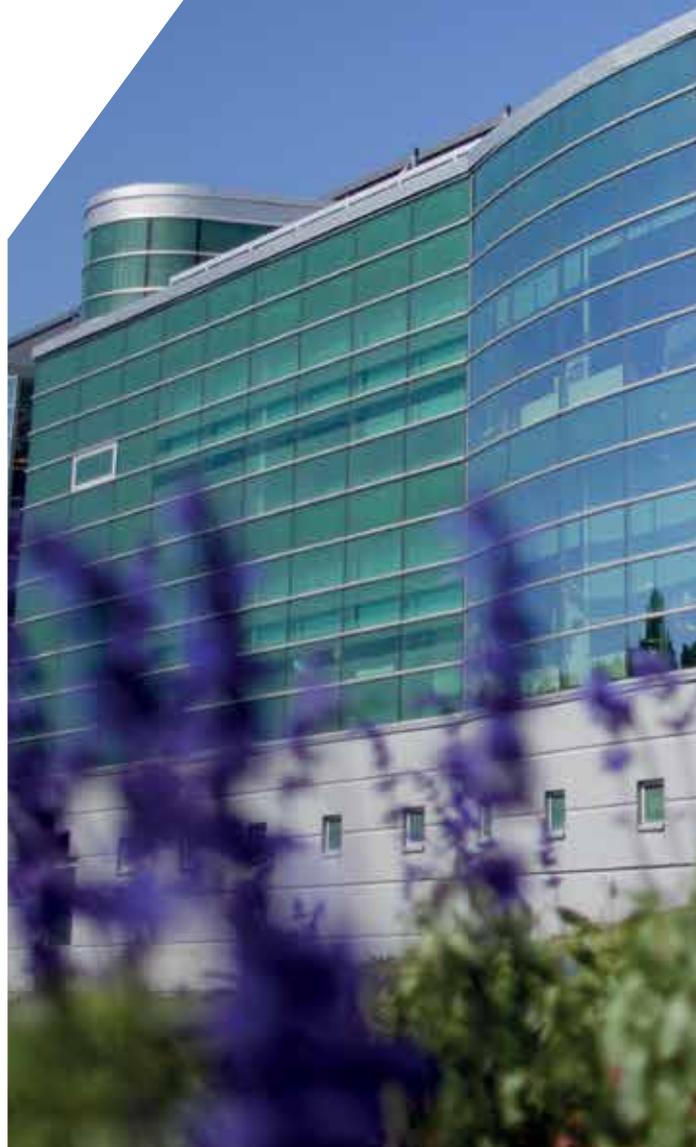
As the industry leader, we offer you the best in service and support with Glaston Genuine Care. It's our way to extend the lifetime of your glass processing machinery, cut operating and maintenance costs and take your business to the next level.

Glaston Genuine Care includes all services needed over the lifetime of your machinery, including Glaston Care agreements, spare parts and tools, service work, training and consulting, as well as upgrades.

This is our genuine commitment to your long-term success. For more information, please contact your nearest Glaston representative at [glaston.net/contacts](https://www.glaston.net/contacts)

Glaston – changing the way the world sees glass

NOTE: Images shown in this brochure are indicative and depend on the level of equipment.
Models may differ from the pictures shown.



We are a global company that develops glass processing technology for architectural, automotive, appliance, and solar industries.

As the market and technology leader, we provide you with the highest quality glass processing machines and lifecycle services.

We have the largest installed machine base in the industry, with deliveries to more than 100 countries.

glaston

www.glaston.net

Keep in touch with the latest industry news, business insights and practical tips at
www.glastory.net

© 2017 Glaston Corporation,
Glaston RC Series ENG
printed 09/17 HKP