

LandGlass

EXPLORING THE POSSIBILITIES OF TEMPERED GLASS

In its activities aimed at meeting market demands in architecture, furniture, household appliance, automobile and solar energy industries, LandGlass is continuing to develop new and highly technical solutions that not only increase furnace performance and product quality, but also increase production efficiency, while guaranteeing energy saving and consumption reduction.





INTEGRITY, QUALITY, INNOVATION AND SERVICE

LandGlass Technology Co., Ltd. is a hi-tech enterprise specializing in the development, manufacturing and marketing of glass tempering furnaces under the guidance of the philosophy of 'integrity, quality, innovation and service'. LandGlass has, over the years, established an entire series of technical solutions for the flat and bent tempered glass products to meet the demands in architec-

ture, furniture, household appliance, automobile and solar energy industries. There are ten series of equipment and over one thousand kinds of specifications and types. The company's latest product, Cyclone™ series achieves significant improvement in furnace performance, including the four main features of outstanding product quality, increased production efficiency, energy saving and consumption reduction, intelligent operation and control, to help customers improve

their products and make continuous progress in technological innovation. The products of LandGlass are popular among Chinese customers, and are also sold in dozens of countries and regions in Europe, North and South America, Asia, Oceania and the Middle East. Today, LandGlass' worldwide marketing networks are providing zero-distance technical consultation and solutions for custo-

mers, as well as providing customers with localized comprehensive technical services by utilizing technical service capacity and spare part storage.



MOVING FORWARD AND DEVELOPING NEW TECHNOLOGIES

With its LD-Cyclone Series, LandGlass is taking yet another step forward in its exploration of the possibilities of tempered glass. Since various types of coated glass, especially online and offline low-E glass, are being used more and more extensively in the building industry, the Jet-Convection™ series tempering furnaces introduced by LandGlass are gaining a high reputation in the

domestic and international markets regarding the tempering of high end glass products.

In 2015, LandGlass introduced a brand new series of forced convection tempering furnaces, the Cyclone™ series, which achieved significant improvement in terms of product quality, productivity, energy saving, intelligent control, and wireless connection.

Application Fields: Architecture and Furniture, Automobile Industries, Household Appliances and Solar Power Industries, etc.

Heating Mode: Cyclone™ convection technology

Glass can be Tempered: On-line and Off-line Low-E ($E=0.02$) Glass, Ultra Clear Glass, Screen Printed Glass, Pattern Glass, Tinted Glass, Clear Glass, etc.

Technical Features

Five Advantages:

1. Outstanding quality
The quality of the tempered glass produced by LandGlass Cyclone™ is improved significantly with the application of Cyclone™ convection technology, isotherm™

technology and GeniusCool™ technology.

2. High productivity
LandGlass Cyclone™ can increase productivity by 40 per cent when tempering double-silver and triple-silver low-E glass.
3. Low energy consumption

With its leading energy-saving technologies, LandGlass Cyclone™ can reduce energy consumption by 10 per cent, compared with standard convection tempering furnaces.





4. Intelligent control
Automatic production can be realized by LandGlass Cyclone™ with its eAdapt™ system and eVision™ technology.
5. Wireless connection
Safe and stable running can be guaranteed by remote control and message notification system.

Eight technologies:

1. Cyclone™ convection technology
Cyclone™ convection technology is for the high efficiency of heat transfer in heating furnaces and for the best quality tempered glass, from float glass to double-silver and triple-silver low-E glass.
2. IsoTherm™ technology
IsoTherm™ technology enhances the evenness of the thermal field and is for the most even heating ever obtained in a tempering furnace.
3. GeniusCool™ technology

TECHNICAL PARAMETERS

| LD-Cyclone™ Series Convection Glass Tempering Furnace | | | |
|---|---|-------------------------------|--------------------------|
| LD-Cyclone™ | | 5 mm Clear Glass | 5 mm low-E |
| Product Quality | | Waviness≤0.1 | Waviness≤0.12 |
| Productivity (Loads/h) | | 21 | 18 |
| Power Consumption | | 3.5 - 3.7 kWh /m ² | 3.75 kWh /m ² |
| eAdapt™ System | Digital production has been realized according to China National Industrial Standard 4.0. | | |

GeniusCool™ achieves unbelievable even quenching and cooling pressure for most even stress distribution.

4. StraightEdge™ technology
StraightEdge™ technology effectively eliminates edge kinks while lifting optical quality to highest level.
5. EnergySave™ technology
EnergySave™ dynamically adjusts power output in quenching

and cooling processes, and lowers power consumption remarkably.

6. ThermoLock™ technology
ThermoLock™ technology increases the thermal resistance of the furnace walls, also minimizes heat loss out during operations.
7. eVision™ technology
eVision™ scans sizes, shapes and quantities of the glass sheets and transfers data to the control system, which allows for easier operations.
8. eAdapt™ system
eAdapt™ technology makes digital production come true, and largely reduces dependence on professional operator skills.

It can adjust cooling time and air pressure and detect the temperature of the glass surface automatically. The blower will stop blowing once the glass reaches the temperature at which it is ready to be unloaded.

It reduces dependence on professional operator skills.



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