LD-A JetConvection Flat Glass Tempering Furnace

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

Heating Mode:
Forced convection heating on the top and bottom.

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.

Product Introduction
LandGlass is a pioneer in R&D of forced convection heating technology. After years of theoretical research and production test, the LD-AJ JetConvection Tempering Furnace has become the first choice for small, medium and large glass manufacturing companies. This tempering furnace is recognized internationally, and it is the core product of LandGlass.
JetConvection™ Convection heating plays a main role during glass heating. Air is heated in the JetConvection chamber inside the heating furnace and is blown onto the glass surfaces. Air is then recirculated and recirculated by the convection blowers into the JetConvection chamber. LandGlass JetConvection technology enhances the quality of the final product and increases productivity by ensuring an even heating, while minimizing production costs.

LD-A JetConvection™ Flat Glass Tempering Furnace adopts JetConvection™ Heating Technology. Glass tempered by this tempering furnace has the best quality and is suitable for the architectural and furniture markets. Glass that can be tempered includes: on-line and off-line Low-E (E=0.02) glass, extra ultra clear glass, screen printed glass, pattern glass, tinted glass, clear glass, etc.

**Technical Features**

1. Full convection is a completely different approach to the traditional combination of radiation heating and convection pipes. The use of full convection solves a series of heating challenges that are due to the different emissivities at the top and bottom surfaces of coated glass.

2. Our convection technology has been developed to allow for more heating zones along the width of the furnace. Each of these heating zones can be controlled separately, allowing the generation of heating profiles along the width and the length of the furnace.

3. The length of the furnace will determine the number of convectors that will be installed, each of which will be independently controlled to allow for different convection settings. Convection blowers are installed at the top of the convection box to balance the air pressure inside the furnace. The air flow distributing mechanism together with the specially designed nozzles, ensure a uniform distribution of the convective airflow.

4. The built-in optimization algorithm and the computer fuzzy temperature control modules of the PID database, together with the frequency control of the blowers, assure that both heating and frequency profiles can be customized and optimized.

5. Lower bottom heating temperature can be achieved by adjusting the convection parameters, so that the heating defects such as white haze, hot spots, etc., can be eliminated. In the meantime, heating time is reduced and efficiency is optimized.
### LD-A JetConvection Flat Glass Tempering Furnace

<table>
<thead>
<tr>
<th>Types</th>
<th>Max. Dimension</th>
<th>Min. Dimension</th>
<th>Glass thickness</th>
<th>Heating time(second)</th>
<th>Productivity (loads/h)</th>
<th>Installed capacity (KVA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1830J</td>
<td>1800X3000</td>
<td>150X300</td>
<td>4-19</td>
<td>Clear glass: 28-32; Low-E: 38-42</td>
<td>18-20; 15-18</td>
<td>500</td>
</tr>
<tr>
<td>A2036J</td>
<td>2000X3600</td>
<td>150X350</td>
<td>4-19</td>
<td>Clear glass: 28-32; Low-E: 38-42</td>
<td>18-20; 15-18</td>
<td>630</td>
</tr>
<tr>
<td>A2436J</td>
<td>2440X3600</td>
<td>150X350</td>
<td>4-19</td>
<td>Clear glass: 28-32; Low-E: 38-42</td>
<td>18-20; 15-18</td>
<td>800</td>
</tr>
<tr>
<td>A2442J</td>
<td>2440X4200</td>
<td>150X350</td>
<td>4-19</td>
<td>Clear glass: 28-32; Low-E: 38-42</td>
<td>18-20; 15-18</td>
<td>1000</td>
</tr>
<tr>
<td>A2450J</td>
<td>2440X5000</td>
<td>150X350</td>
<td>4-19</td>
<td>Clear glass: 28-32; Low-E: 38-42</td>
<td>18-20; 15-18</td>
<td>1000</td>
</tr>
<tr>
<td>A2460J</td>
<td>2440X6000</td>
<td>150X350</td>
<td>4-19</td>
<td>Clear glass: 28-32; Low-E: 38-42</td>
<td>18-20; 15-18</td>
<td>1250</td>
</tr>
<tr>
<td>A2850J</td>
<td>2800X5000</td>
<td>200X400</td>
<td>4-19</td>
<td>Clear glass: 28-32; Low-E: 38-42</td>
<td>18-20; 15-18</td>
<td>1250</td>
</tr>
<tr>
<td>A3050J</td>
<td>3000X5000</td>
<td>300X500</td>
<td>5-19</td>
<td>Clear glass: 28-32; Low-E: 38-42</td>
<td>18-20; 15-18</td>
<td>1250</td>
</tr>
</tbody>
</table>

Productivity is calculated on 5mm clear glass and 5 mm Low-E glass (E=0.08) with 65% loadage. Actual productivity is subject to glass types, sizes and loadage. Not all types are listed here due to limited space.

### Customer Case

**Company** | Glas Strack  
**Location** | Germany, Europe  
**Company Profile** | Glas Strack is a German enterprise with a long history more than 70 years. As a senior pioneer in the glass processing industry, it has different roles during the daily work. Besides the wholesale of glass, Glas Strack also designs and manufactures products according to the specific requirements of the customers.  
**Furnace Type** | LD-A JetConvection Flat Glass Tempering Furnace  
**Main Products** | Tempered glass, laminated glass, glass door, glass shower room, art glass, decorative glass, stained glass, etc.  

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YouTube:  https://www.youtube.com/watch?v=I54GICEEwLI