

# GLASS LAMINATION FLY

Vacuum and hot air membrane ovens for quick glass lamination with the best quality output.



**M.I.T. S.r.l.**

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## GLASS LAMINATION – FLY

FLY 200, 400, 600 lamination ovens are designed, thanks to 10 years of experience in glass lamination, for the companies that deal with small, medium and high customized productions, desire the basics but expect quality at a relatively low cost. FLY line is characterized by the combined heating system made up of Infrared tubular resistors and hot air in recirculation.

### FEATURES:

- Heating done by tubular resistors and hot air in recirculation
- High quality silicone membrane for greater strength and durability
- PTFE net included for high vacuum performance
- Double stage vacuum pump with high suction and vacuum depression performance
- Quick silicon sheet downs
- Possibility to have a second drawers (for FLY 400 and FLY 600) to duplicate the productivity
- Possibility to save the cycle parameter (temperature, vacuum state, time) in a USB memory (e.g. for the glass certification)
- Possibility to use EVA or PVB
- Fast connection system for vacuum bag
- Possibility to install a roll support on the machine
- Vacuum control with digital vacuum meter
- Possibility to install a Varnish dryer equipment
- Forced air cooling at the end of the heating cycle (for the highest quality of glass transparency)

### BENEFITS:

- Simple and economical processing time: unlike the processes in a standard autoclave, it is possible to heat glasses of different dimensions or thickness.
- Easy to operate: A user-friendly touch screen is provided on all machine models to allow the user to input, modify and/or save the desired glass lamination recipes. The control panel includes warning signals and lights, which easily indicate the presence of errors
- Labor saving and work area efficiency: A spacious worktop is provided on all FLY model, for assembling of glasses, potentially reducing required work area and internal product handling.

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- **Strength and durability:** All the machines possess a robust steel support frame (coated with an anti-corrosive paint) and internal steel platform support(s) to handle the various stresses present in a factory environment.
- **Energy saving & increase in productivity:** Thanks to the high quality of technical characteristics and high quality certified insulating material panels, the heating performance featured by our machines is uniform throughout the treatment chamber and desired temperatures can be achieved faster and maintained, reducing processing time and energy consumption.
- **Long-term aging resistance:** we use the best components and materials to guarantee the best durability of the machine over the time.
- **Specialized training:** Our staff is available to resolve any issues with our machines. In addition, our specialized technicians provide training for use our machines to laminate glasses.

### **WHY INVEST IN A MACHINE THAT PROCESS LAMINATED GLASS WITH EVA?**

**TO CREATE SAFETY GLASS:** in the event of breaking, the glass maintains together without shattering into sharp pieces. The interlayer adhesive EVA film keeps the layers of glass bonded. **To create decorative glass:** EVA excellent transparency, adhesion and barrier characteristics allow the usage of laminated glass on numerous applications, such as furniture, paintings, sculptures, etc.

**MANY ADVANTAGES:** Simple and economical processing time: unlike other common adhesives, EVA's chemical composition makes it possible to treat laminated glass at relatively low heat cycles and without the need of a pressurized chamber (autoclave)- UV protection- High impact resistance- Sound barrier- Long-term aging resistance

### **Additional information on EVA:**

- EVA's waterproof and humidity durability characteristics permit easy handling and storage.
- EVA films are available in a wide range of colors (white, transparent, red, green, yellow, blue etc.)

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## **TECHNICAL CHARACTERISTICS: FLY 200**

<b>Application</b>	Glass Lamination & Varnish Dryer
<b>Internal platform work area standard dimensions</b>	1800 mm x 3200 mm
<b>Height of Treatment chamber</b>	200 mm
<b>Machine outermost standard dimensions (closed drawer)</b>	2450 mm x 4230 mm x h 950 mm
<b>Machine outermost longitudinal standard dimension (opened drawer)</b>	8500 mm
<b>Weight</b>	2000 kg
<b>Installed Power</b>	25 kW
<b>Heating system</b>	IR Tubular resistors + Hot air in recirculation
<b>Estimated absorbed power / standard cycle</b>	15 kWh
<b>Voltage</b>	400 V 3 phase– 50 Hz
<b>Working temperature</b>	130 °C
<b>Maximum temperature</b>	150 °C
<b>Process recipe programs</b>	Up to 256 programmable recipes / up to 10 interval cycles
<b>Automatic Night cycle</b>	Programmable
<b>Number of treatment drawers</b>	
<b>Tear resistance silicon sheet (with net in PTFE coated fiber glass)</b>	2 sheets 1.5 mm thickness
<b>EVA roll support</b>	Optional
<b>Forced cooling system</b>	Yes
<b>Number of vacuum valves</b>	1 per treatment platform
<b>Vacuum silicon bag with easy attachment</b>	Optional
<b>Number of vacuum pumps (Pump Power)</b>	1 (1.5 kW) 3 phase double stage
<b>Vacuum pressure reader</b>	Yes
<b>Programmable logic controller (PLC)</b>	Touchscreen



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## TECHNICAL CHARACTERISTICS: FLY 400

<b>Application</b>	Glass Lamination & Varnish Dryer
<b>Internal platform work area standard dimensions</b>	1800 mm x 3200 mm
<b>Height of Treatment chamber</b>	400 mm
<b>Machine outermost standard dimensions (closed drawer)</b>	2450 mm x 4230 mm x h 1150 mm
<b>Machine outermost longitudinal standard dimension (opened drawer)</b>	8500 mm
<b>Weight</b>	2300 kg
<b>Installed Power</b>	35 kW
<b>Heating system</b>	IR Tubular resistors + Hot air in recirculation
<b>Estimated absorbed power / standard cycle</b>	21 kWh
<b>Voltage</b>	400 V 3 phase – 50 Hz
<b>Working temperature</b>	130 °C
<b>Maximum temperature</b>	150 °C
<b>Process recipe programs</b>	Up to 256 programmable recipes / up to 10 interval cycles
<b>Automatic Night cycle</b>	Programmable
<b>Number of treatment drawers</b>	1 Optional: the second drawers (sliding or not sliding)
<b>Tear resistance silicon sheet (with net in PTFE coated fiber glass)</b>	2 sheets 1.5 mm thickness
<b>EVA roll support</b>	Optional
<b>Forced cooling system</b>	Yes
<b>Number of vacuum valves</b>	1 per treatment platform
<b>Vacuum silicon bag with easy attachment</b>	Optional
<b>Number of vacuum pumps (Pump Power)</b>	1 (1.5 kW) 3 phase double stage
<b>Vacuum pressure reader</b>	Yes
<b>Programmable logic controller (PLC)</b>	Touchscreen



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## TECHNICAL CHARACTERISTICS: **FLY 600**

<b>Application</b>	Glass Lamination & Varnish Dryer
<b>Internal platform work area standard dimensions</b>	2 platforms each 1800 mm x 3200 mm
<b>Height of Treatment chamber</b>	600 mm
<b>Machine outermost standard dimensions (closed drawer)</b>	2450 mm x 4230 mm x h 1350 mm
<b>Machine outermost longitudinal standard dimension (opened drawer)</b>	8500 mm
<b>Weight</b>	3100 kg
<b>Installed Power</b>	45 kW
<b>Heating system</b>	IR Tubular resistors + Hot air in recirculation
<b>Estimated absorbed power / standard cycle</b>	27 kWh
<b>Voltage</b>	400 V 3 phase – 50 Hz
<b>Working temperature</b>	130 °C
<b>Maximum temperature</b>	150 °C
<b>Process recipe programs</b>	Up to 256 programmable recipes / up to 10 interval cycles
<b>Automatic Night cycle</b>	Programmable
<b>Number of treatment drawers</b>	2 The top drawers sliding or not sliding
<b>Tear resistance silicon sheet (with net in PTFE coated fiber glass)</b>	4 sheets 1.5 mm thickness
<b>EVA roll support</b>	Optional
<b>Forced cooling system</b>	Yes
<b>Number of vacuum valves</b>	1 per treatment platform
<b>Vacuum silicon bag with easy attachment</b>	Optional
<b>Number of vacuum pumps (Pump Power)</b>	1 (1.5 kW) 3 phase double stage
<b>Vacuum pressure reader</b>	Yes
<b>Programmable logic controller (PLC)</b>	Touchscreen



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