

# Sklářské stroje Znojmo S.r.o



KP 01  
KP 02

**MOULD PRE-HEAT OVEN**

# Detailed description

The moulds pre-heat oven is used for tempering container glass moulds and keeping their rated temperature. The oven is designed to reach a maximum temperature of 600 oC during approx. 2 hours.

The moulds pre-heat oven is equipped with the direct gas heating with a proportional control system and decompression channel preventing the inner pressure increase. The proportional process of heating is controlled by a microprocessor regulator.

The heating unit consists of the automatic gas burner fixed on the heating chamber rear wall. The burner is joined with a heating tube pointed to the suction of a recirculating fan. The high-power fan recirculates the air in a closed space. The air goes through the loading trolley desk around the heated moulds and is sucked by the fan again.

The loading trolley is equipped with the independent drive for loading and unloading of moulds to/from the oven. The loading grate placed on the support frame slides is designed for a maximum load of 1000 kg. Both front and rear axles are driven and move on rails.

The heating chamber is closed by the vertically moving door. The lifting mechanism positioned on the chamber frame beams is equipped with an independent drive. When the door is dropped to the bottom position it is automatically fixed and sealed.

The whole procedure of the door lifting, loading trolley moving as well as heating process itself is fully automatic. All operations, both executive and safety, follow in logical steps and are initiated by pressing a single button only. Loading trolley moving to and out of the oven requires no physically demanding assistance from the operator – pressing the button will do the job.



Technical data	
<b>Main dimensions:</b>	
Max. height	2 730 mm
Max. width	2 320 mm
Max. depth	2 430 mm
Wall & roof insulation thickness	300 mm
Bottom insulation thickness	200 mm
Chamber width	1 100 mm
Chamber height	1 000 mm
Chamber depth	1 400 mm
Clear height over trolley platform	500 mm
Trolley platform level	700 mm
Width of trolley platform	1 000 mm
Length of trolley platform	1 200 mm
Mould oven total weight	2 335 kg
<b>Electrical parameters:</b>	
Electrical power consumption	6,5 kVA
Main feed current	9,4 A
Electrical system	TN-S 3+PE+N, 3x230/400V AC 50 Hz
<b>Gas:</b>	
Heating medium	natural gas
Gas efficiency	9,425 kWh/m <sup>3</sup>
Gas pressure on burner input	3±9 kPa



Mould pre-heat oven was certified by Strojírenský zkušební ústav, s.p.  
Notified body 1015, authorized body 202



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