

J. v. G. Cooling AUTO 2012



This machine is a new revolutionary cooling & heating facility for the module production.

The advantage is a better lamination result, the modules are in a much higher quality. J.v.G. invented this in 2008. Modules have a **longer lifetime, better against delamination and finally more yield.**

The cooling process is automated, with FIFO (first in first out) principle. Hand cooling is not defined, not repeatable and not unique made. The cooling station also extends the capacity of the laminator.

Fully automated Interfaces to laminators, already realized are Nishinbo- Spaleck, ECO and J. v. G. BIPV 3622-laminators. Same machine is also used as climate chamber before Flasher. (25°C).

Specification datas

- 1 Increases quality of the modules, better against delamination; increases quality of Flasher measurements
- 2 FIFO (First in - First out) principle
- 3 Increases capacity of the line, higher output of modules
- 4 Variable size of glass; up to 2 meters, customer spezific even more
- 5 Two high precision pyrometer sensors
- 6 One conveyor sensor for loading modules
- 7 Five sensors for unloading conveyor
- 8 PLC controlled loading & unloading mode
- 9 PLC controlled cooling scenarios (three examples programmed) customer specific possible
- 10 PLC controlled heating scenarios
- 11 Motor driven
- 12 Frequence controlled
- 13 Temperature sensors (two), with LCD display and control outside
- 14 Three cooling programs with PLC useable / three heating programs with PLC useable
- 15 Inline version; replaces unload conveyors of laminator
- 16 Automated interface for Nishinbo laminator; Spaleck & Ecoprogetti; Endeas; J. v. G. BIPV 3622 laminator, Berger; J. v. G. FL - 09, Flasher inline and J. v. G. LED 12.20 Flasher
- 17 Unload buffer for cooled modules; for one complete load capacity (3-4 modules)
- 18 Prepared up to ultra super fast cure (curing time 12 minutes, minimum 5 minutes possible)

Dimension of the cooling station

minimum	600 mm x 1200 mm
maximum	1000 mm x 2000 mm
length	8,50 m
width	2,00 m
height	1,80 m
height	1,00 m