

Economy Vapour Phase Soldering Machine for Laboratory / Small Scale Production



MiniLab

Features

- Ideal for prototyping laboratory tests and rework
- Low operating costs and compact design
- Easy handling with solder automatic and heater level adjustment
- Designed for lowest fluid consumption incl. integrated heat exchanger to prevent drag out of liquid agent
- Variable energy level set-up
- Automatic fluid level indicator
- Standby-mode
- Maintenance free transport system (**Patented**)

Standard Equipment / Specification

- Automatic loading and unloading of the carriers
- Observation window to the process chamber
- Integrated illumination of the soldering area
- Controlled heating chamber, no overheating (thermocouple checked)
- Integrated vapour level check
- Automatic fluid level check
- Integrated fluid recovery system
- Variable energy level control
- Maintenance free high-grade steel transportation system. (**Patented**).
- Automatic and time controlled soldering

Options

- Adapter for double sided PCB boards.
- ReSy, a device for repair of QFP's and BGA's, (patented)
- Stainless steel grid for the workpiece carrier
- Chiller with closed loop machine cooling system

Overview

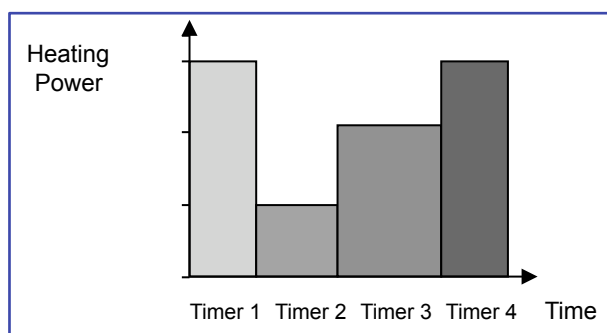
Although the MiniLab requires a low footprint to install only, it has all features required to operate the system as a fully functional vapour phase soldering machine.

The MiniLab was developed for small scale operation time and space. It is ideal for laboratory applications, prototyping and small production, as well as rework and quality tasks

Modes of operation

Heat Level Mode (HL-Mode)

A simple variation of vapour phases soldering, generates different, nearly linear temperature profiles. Energy transfer is controlled by adjustable heating power.



Solder Automatic

The machine can operate in a time controlled sequence programmed by the user. It also can operate completely automatically. Then the time in the vapour chamber is shortened or extended automatically according to the mass to be soldered.

Technical Data MiniLab

Width	730mm
Depth	600 mm
Height	600 mm
Weight	70 kg
Maximum PCB size	300 x 275 x 80 mm
Liquid agent filling (min)	2 kg
Water connection	1/2"
Max. heating capacity	1,8 kW
Ø power consumption	0,8 kWh
Power supply / main fuse	230 VAC, 2 kW / 16 A, Type "gL" or "C"

- Technical changes reserved -