

Model **KPH-10 & 20**

“modules to pre-heat the circuit board prior to the selective soldering process”



FEATURES:

- Individual 10"x12" zones that can be activated separately.
- Operates by “ramp to temperature and hold” or “time out”.
- Comes with 4 thermocouples to aid in profiling functions.
- Expanding rail widths that align with the KISS machines.
- Will accept PCB panels up to 18" x 24" (model #KPH-20).

DESCRIPTION:

The **KPH Family of pre-heaters** KPH Series infrared (IR) preheat modules for the KISS102 Series Selective Soldering machine. Available in two models, the KPH-10 and KPH-20, both units are simple to set up and use, and feature thermocouple ports to facilitate thermal profiling. The KPH-10 offers a 10" x 24" heating area divided into two 10" x 12" individually-controllable zones of 750-watts each. The PH-20 offers a 20" x 24" heating area divided into four 10" x 12" zones.

Preheating drives out volatiles or moisture from the circuit board, minimizing the potential for delamination from expansion of moisture; it raises the overall temperature of the assembly and prevents thermal shock to the board, allows for faster processing, and reduces the potential for thermal shock and stress to the PCB.

Available in benchtop or stand-alone configuration, the KPH

Series product support rails line up with the rails of the KISS selective soldering machines, programmable, fully automated machine that uses the proven ‘traveling mini-solder wave. This system, offering a lead-free compatible solder pot, overcomes the limitations of operator-dependent soldering with a truly flexible molten solder delivery system. It is designed to fill the gap between hand soldering and more expensive automated in-line robotic selective soldering.

PROCESS OVERVIEW:

The operator places the PCB onto the location KPH rails and starts the automated cycle. The pre-heat cycle warms the board to the set point temperature while the previous board is in the KISS selective soldering process. When the soldering process is completed and the pre-heat cycle for the next board is finished, the operator slides the pre-heated board into position in the KISS machine and initiates the soldering process. Another board is placed on the KPH completing the cycle.

SPECIFICATIONS:

PCB Panel Size:

• KPH-10	Minimum 2" x 2"	Maximum 12" x 20"
• KPH-20	Minimum 2" x 2"	Maximum 18" x 24"

Physical:

• KPH-10	24" wide x 24" deep x 48" high.
• Weight	80 lbs.
• Power	240VAC/1 Ph/60 Hz 10 amps
• KPH-20	30" wide x 30" deep x 48" high.
• Weight	125 lbs.
• Power	240VAC/1 Ph/60 Hz 15 amps