



# Model **KPHOB**

“modules to maintain top side board temperature during the selective soldering process”



### **FEATURES:**

- Real-time top side pre-heating during the soldering process.
- Individual IR zones that can be activated separately.
- Operates by “ramp to temperature” and hold at set point.
- Real-time optical pyrometer control.
- Control settings via a touch screen.
- Available on all KISS selective soldering machines.

### **DESCRIPTION:**

The **KPHOB** is a true real-time top side pre-heater.....

Applying a heat source to the top side of the PCB during the soldering operation promotes the draw of the solder through the barrel to the top side of the board enhancing the formation of fillets on the top side. This function is not practical or possible on machines that grip and robotically move the PCB as the pre-heater would need to travel with the board and the gripper simply is in the way. The unique design of all KISS machines keeps the PCB stationary while the flux and solder stations move underneath. This is a major feature that allows for an unobstructed area above the PCB where our **KPHOB** resides. The **KPHOB** can be used as the prime pre-heating function or to maximize productivity used in combination with our discrete pre-heaters to maintain board temperature during the soldering operation. The optical pyrometer reads the actual PCB temperature with real-time closed loop control.

**The combination of these features provides superior soldering quality and productivity from the KISS machines.**

### **PROCESS OVERVIEW:**

The **KPHOB** is fixed within the KISS machine enclosure directly over the located PCB. Immediately upon sensing a board in place the heating cycle is initiated under program control. The board reaches a pre set temperature and the selective soldering cycle begins. During the S.S. process the heaters cycle to maintain the top side board temperature at the set level. You can set the process to pre-heat then flux or flux first then pre-heat the board.

### **SPECIFICATIONS:**

#### Machine used on:

- **KPHOB-12** KISS-101 and 102 models
- **KPHOB-34** KISS-103 and 104 models

#### PCB maximum size:

- **KPHOB-12** 12" x 12" (300 x 300mm)
- **KPHOB-34** 18" x 24" (450 x 600mm)

#### Power requirements:

- **KPHOB-12** 220VAC/1 Ph/60 Hz  
20 AMPS
- **KPHOB-34** 220VAC/1 Ph/60 Hz  
30 AMPS