The Most Cost Effective Choice for Through-Hole Selective Soldering

RELIABLE, DEPENDABLE, FLEXIBLE

AIR-VAC

PCBRM15

Lead-Free & Tin-Lead Through-Hole Rework/Selective Soldering

Alignment System for Precision Repeatability

- Rigid platform insures board is parallel to the solder wave
- Robust cast framework for continuous industrial usage
- X, Y, Z board carrier provides large PCB holding with precision rail movement and positioning

Reliable Process Control

- Allows safe selective soldering or removal on the most delicate or thermally challenging assemblies
- High thermal mass equates to low operating temperatures
- No manual scraping tips or overheating of pads.

Flexible Solder and Temperature Control

- Adjust solder flow to control wave height for any tooling configuration
- Closed-loop temperature control
- Cycle duration control

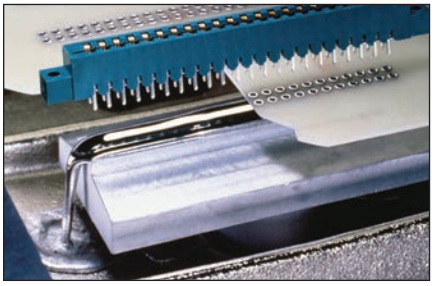
Long Lasting Pumping System and Solder Pot

- Three (3) year solder pot warranty
- Process single or multiple sites up to 15” long or 5” x 7”
- Pump mounted below surface of solder, minimizing dross accumulation
- Pump shaft sleeve minimizes dross migration into pot
- Integral cast 2500 watt heating element

Simple, Reliable, Robust

- Components can be soldered or removed in 5-10 seconds
- Reliable performance in demanding environment
- Robust features insure long life
- Easy operating process

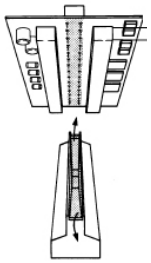
Application Specific Tooling Provides the Most Efficient Process Solution for any Assembly



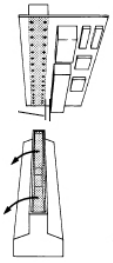
Flow wells match the lead pattern and determine the size, shape and direction of solder flow. Air-Vac maintains an assortment of standard flow wells and cleaning hoods. Flow wells can be made up to 15” long and have multiple process sites.

The success of reflow soldering and rework is related to the flow well design. Air-Vac’s approach is to take responsibility for the process by receiving the assembly, discussing the application, quoting the flow well and developing a proven process prior to shipment.

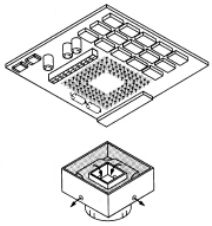
Send your board to us for quick response, to simplify your process and to improve your productivity.



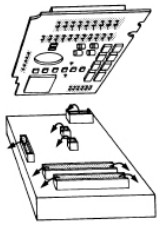
For double-sided boards, solder flow is directed away from bottom-side components.



For edge connectors, solder flows away from the board.

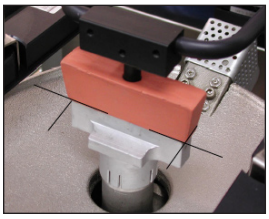


The solder flow can be directed inward, protecting components near the lead pattern.

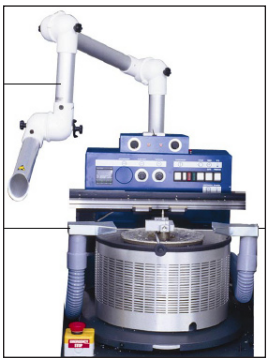


The solder flow can be directed to large select areas for multiple soldering.

Options



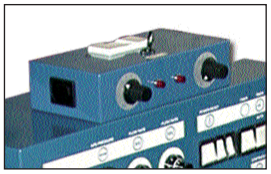
Air Cleaning System (#APS)
Aligns component over solder wave. After component removal, the air cleaning hood is lowered against the board surface. Low pressure air is applied to the lead pattern, forcing the molten solder from the barrels.



Fume Extraction Manifolds
(#3005.02.040) - Connects to central exhaust or fume extraction system. Solder fumes and flux vapors are removed for a safer environment.

Fume Extraction Unit
(#1020.01.105) - High suction force of 25” WC, three-stage filtration, HEPA efficiency of 99% at 0.3 micron. 185 cfm capacity, quiet operation. Connects to 2” and 2.5” diameter hoses. Separate literature available.

Extension Assembly
(#3006.01.010 *set of 4*)
(#3006.01.040 *single*)
Used when component is near or against the carrier rails. Positions the board 0.7” away from rails.



Flow Well Heater Control Module (#ST350) - Independent power source maintains uniform heat on larger flow wells.

Stand Alone Preheater
(#PHS1500 or PHS4000) - Ideal for lead-free or high thermal mass assemblies. 1500 or a larger 4000W infrared heater provides uniform heat. An audible alarm indicates when desired temperature is reached. Optional non-contact temperature sensor with light pointer and air knife for board cooling. Separate literature available.

Technical Data

- **Physical Dimensions:** 32”W x 32”D x 26”H
- **X/Y Board Carrier Size:** 22”W x 24”D (standard)
- **Solder Capacity:** 35 lbs.
- **Total Weight with Solder:** 125 lbs.
- **Electrical:** 208/220 VAC, 15 amps, single phase
- **Compressed Air:** 60-80 psi, clean moisture free

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