

# AUTOMATIC MICROPLATE FRIT PUNCH

## SPECIFICATIONS:

- INPUT POWER: 110-250 VAC, single phase with ground & neutral. 50/60 Hz. Factory set.
- AIR PRESSURE: 75 PSI, clean & dry air < 10 SCFM.
- WEIGHT: 37 pounds.
- DIMENSIONS: 22" long, 7" deep, 20" high.
- MICROPLATE SIZE: Standard 8 x 12 or 16 x 24, 96-384 well 9mm or 4.5mm pitch plates.
- FILTER FRIT SIZE: Can be designed for any frit diameter that will fit within the pitch format.
- SPEED: One tray stuffed every 1-2 minutes for 96 or 384 well formats, respectively.
- CONTROLS: Rear-mounted ON/OFF switch & fuse. Power master control relay is "latched on" by the START button. Prominent E-STOP button "unlatches" power MCR. All action is "paused" or "reset" by the STOP button. The sequence can be stepped and stopped at any point for setup. Automatic operation with one RUN button. Air pressure set by the regulator knob and actual pressure displayed. Switch to select 96 or 384 well microplates
- COMPLIANCE: Built to NFPA-79 and CE standards.



## FEATURES:

- The machine uses an integral programmable logic controller, PLC, which coordinates all manual and automatic functions in response to operator inputs.
- The slide that holds the tray and the filter sheet is driven back and forth by a stepper motor that turns an enclosed lead screw. The plastic screw nut runs without periodic lubrication.
- The slide can be driven back and forth for easier loading and unloading of the tray and filter sheet by pushing the FOR REV button.
- A large-bore air cylinder drives the cut tubes and their ejection pins with sufficient force to remove 8 frits at once from the filter sheet. Setting the frits in the trays takes little force.
- Safety covers prevent the operator from getting fingers caught in the punching area.
- Motion sensors detect any jams or faults that interrupt operation and motion is stopped.
- The STOP indicator flashes an on/off sequence to indicate the source of any faults.
- The cut and set stopping positions can be adjusted by an internal potentiometer.
- Program changes for different format frits and trays can be made with factory support.
- The operator can make all common setup adjustments.
- Full and complete operator manual includes parts list and electrical schematic.

