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PCB PROCESSING EQUIPMENT

PCB Processing Tanks

Mega is the leading manufacturer of small PCB processing tanks which are used with great success in both Industry and Education. The successful proven design features self contained units each of which are free standing and will accept boards up to 320 X 260mm (12.6" X 10.23").

Each unit is formed in two parts, the high density polypropylene inside tank being injection moulded as a single piece. This method of construction has proved to be far more efficient than the old method of welding together several vacuum formed parts which by design gives inherent danger of leaks from joins. This one piece design is an important safety feature which should be considered when choosing PCB tanks. This inside tank has an integral top surround, which secures over the second of the two parts, a rigid rotationally moulded polyethylene outer case. A splash proof lid with full length board holder mesh covers a working area of 5 litre capacity. The board holders feature yellow side clips which can be secured to close the sides of the mesh when very small boards are being processed. For added safety the inside tank is bolted to the outer case at the bottom of the unit. This must be removed before access to electrical components. Where applicable, the specially developed 500 watt heater with protective silica sheath is externally mounted in the tank, as is the thermostat sensor. The heater is now fitted with an internally mounted thermal fuse which will blow if it is inadvertently turned on without any liquid in the tank. All splash proof electrical controls including a variable thermostat setting are located in a recessed panel on the case front, which prevents liquid getting in contact with the electrics.

For ultimate convenience of use we recommend all our PA processing tanks are used in conjunction with the Process Tank Workstation Tray.

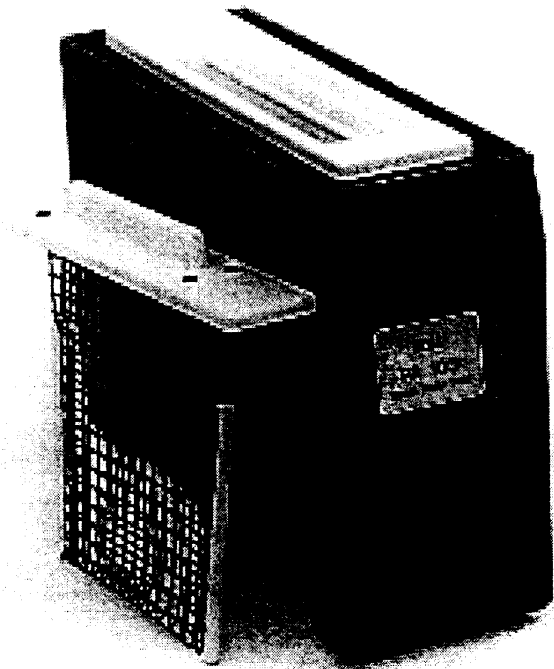
We also recommend that all tanks are used with a RCD power break device. All the PA series tanks are designed to be modular, the following being an ideal processing sequence:

| | | | | | | |
|---------|------------|------|------------|--------------|------------|-------------|
| Develop | Spray Wash | Etch | Spray Wash | Resist Strip | Spray Wash | Immerse Tin |
|---------|------------|------|------------|--------------|------------|-------------|

PA103 SPRAY WASH TANK

PA103 Spray Wash

This tank contains two spray wash bars at the top, driven from a single mains water inlet, between which the developed, etched stripped or tinned board can be suspended to be rinsed. A bottom tube permits used water to be run off to waste.



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|---------|------------|------|------------|--------------|------------|-------------|

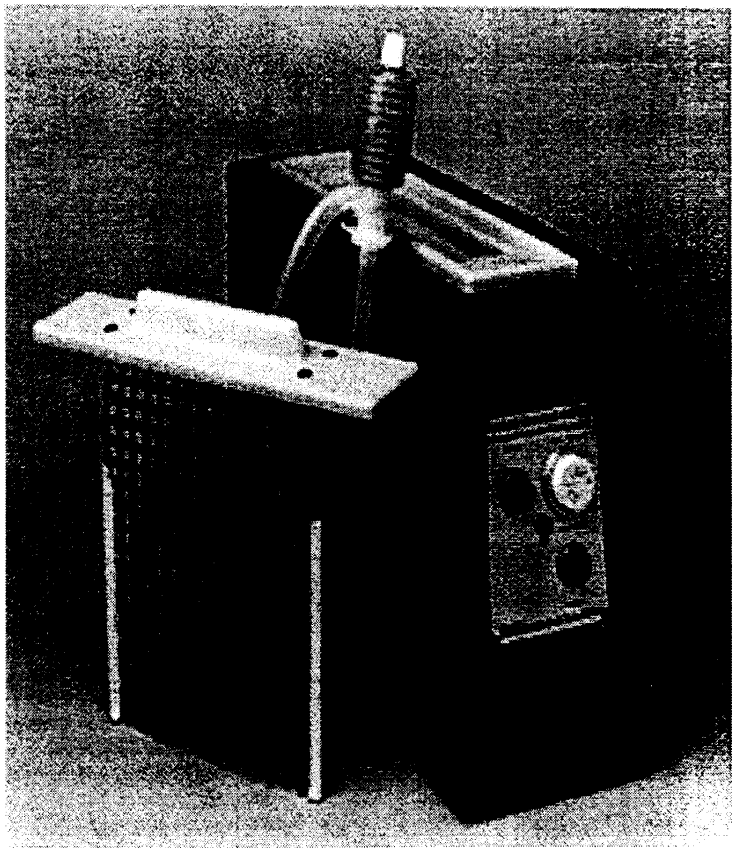
PA107 UNIVERSAL TANK

PA107 UNIVERSAL TANK

Develop, Strip or Tin

Complete with thermostatically controlled heater to cover temperature range of 10 °C to 65°C. The tank can be thus selected for DEVELOP

(25°C), RESIST STRIP (45°C) or IMMERSE TIN (21°C) . Neons indicate when the mains heater is operative. Supplied complete with a syphon, IEC socket and 2 metre mains cable with moulded 13amp plug.

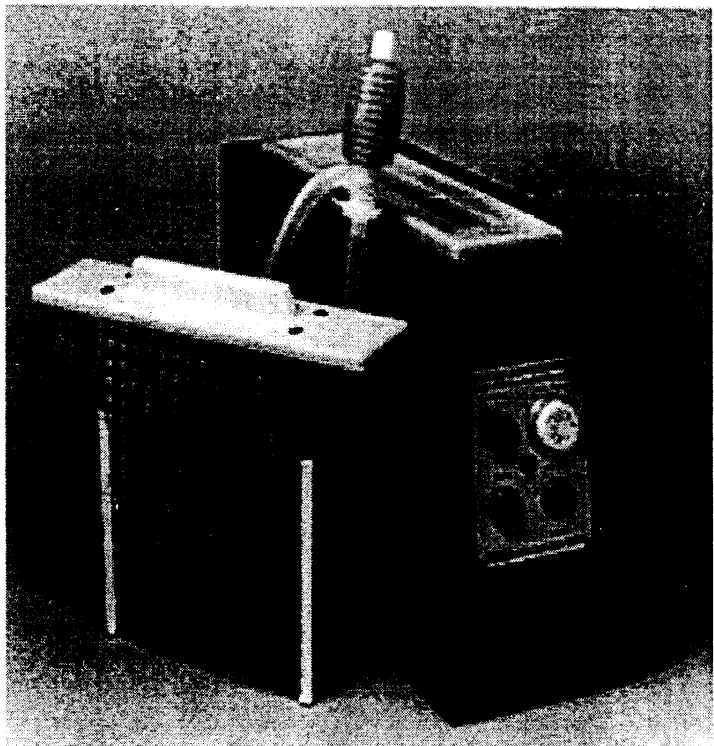


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| Develop | Spray Wash | Etch | Spray Wash | Resist Strip | Spray Wash | Immerse Tin |
|---------|------------|------|------------|--------------|------------|-------------|

PA104 BUBBLE ETCH TANK

PA104 BUBBLE ETCH TANK



This, the most popular of single tanks, includes the heater and thermostat sensor as described above and has a pump fitted which forces air through two bubble bars to provide efficient and even etching. Supplied illuminated switches control mains power and the pump whilst a neon indicates heater operation. The switches and neon have splash proof covers.

The temperature is set by adjusting the variable thermostat control knob. (Optimum temperature for Ferric Chloride 40 - 45 °C). The tank is supplied with a syphon, IEC socket and 2 metres mains lead with moulded 13amp plug.

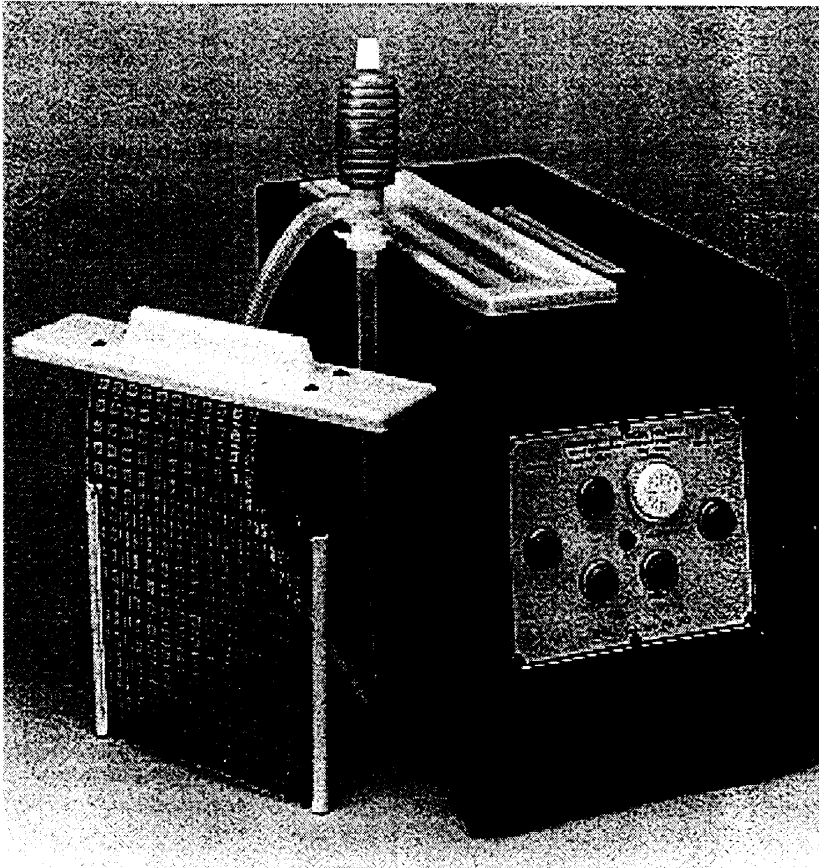
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PA210 TWO-TANK UNIT

PA210 TWO-TANK UNIT

Etch & Wash



An improvement over a standard Bubble Etch Tank. This unit is the same as the PA104 Bubble Etch Tank with the addition of an integral spray wash tank. The spray wash is solenoid operated and all electrical controls are on the front panel. Connections are provided at the rear for drain and cold water requirements. The integral spray wash tank offers safer and more

efficient etching of boards than a standard bubble etch tank and being wider also gives greater stability. Complete with IEC socket and supplied with a 2 metre mains cable with moulded 13 amp plug and syphon.

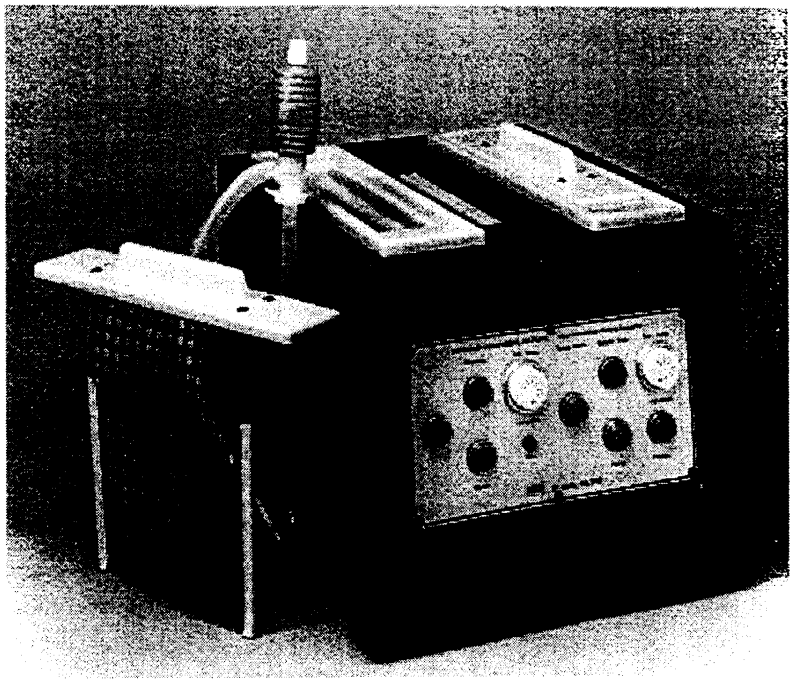
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PA310 TRI-TANK UNIT

PA310 TRI-TANK UNIT

Develop, Wash and Etch



Our best selling and most popular PCB processing unit. A self-contained triple process unit with built-in DEVELOP / SPRAY WASH / BUBBLE ETCH functions providing a convenient bench standing system. The PA310 eliminates the normal untidiness associated producing PCBs to the

solderable-etched stage. A RESIST STRIP / SPRAY WASH / IMMERSE TIN combination can be added to provide a full PCB processing run. Function tanks and splash proof controls are as standard, with all electrics brought together on the recessed front panel. The connections are provided at the rear for drain and cold water requirements. Complete with IEC socket, 2 metre mains cable with moulded 13amp plug and two syphons.P

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|---------|------------|------|------------|--------------|------------|-------------|