

# PA104 BUBBLE ETCH

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.

The PA104 will accept boards up to 320 x 260mm (12.6" x 10.23"). The tank 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, an outer made from 6mm Polypropylene using our CNC machine and advanced plastic welding techniques. A splash proof lid with full length board holder mesh covers a working area of 5 litre capacity.

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 fitted with an internal re-settable safety device to protect the tank if it is inadvertently turned on without any liquid in. 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.

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
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Measurements	External	525 x 180 x 380mm
	Internal	325 x 45 x 280mm (to fill pipe)
Maximum Board Size:		313 x 260mm



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