



- **Self checking, safe to leave unattended**
- **Compact – releases floor space**
- **24 volt electrics for operator safety**
- **Mixes or recycles most liquid chemistries**
- **Simple to operate, foolproof, automatic operation**

- **A versatile automatic chemical mixer for the demanding photographic Laboratory**
- **Low cost of ownership, within the reach of most processing labs**
- **Eases Safety Compliance (COSHH / OSHA)**

THE ROCKWELL HITEC MINIMIXER MM3 is a precision automatic chemical mixer for the laboratory which requires the highest possible standards of photographic processing. Compared with earlier models, the mixers incorporate a number of features which simplify operation and reduce the cost of ownership.

The mixers are by design "fail safe". They will either operate correctly or, if that is not possible, will stop and give a warning.

A cabinet houses up to 4 or 6 separate solution mixing units each of which mixes, or recycles small batches, typically 4.5 litres.

The mixed or recycled replenisher solutions are pumped into storage tanks which provide a buffer stock. One mixer can supply several processors.

If only modest amounts of chemistry are required, the solutions can be stored in the mixing tanks and the processors draw from these.

There are many options to meet every need. Capacity of the mixers depends on the specification selected in the range of 20-40 litres per hour for each solution. Because mixing takes place in small batches, they are also suitable for much lower throughputs. For larger requirements **Rockwell Hitec** manufacture a range of high output mixers.

The mixers require a supply of tempered water and power and can either be plumbed to a drain or a collection bottle.

The mixing sequence follows the convention of adding the chemical concentrates in turn, either to the overflow to be recycled or to water. Each step is checked and if not correct the mixer stops and gives an audible and visual warning.

ROCKWELL HITEC MINIMIXERS use a volumetric method to meter the constituents of a mix. Self priming pumps and water solenoid valves feed the overflows, concentrates and water into a measuring chamber mounted above each mixing tank. This is filled to a precise volume determined by preset level probes and then a solenoid valve in the base opens, releasing the contents into the mixing tank.

The MIX DATA - the mix quantities, sequence and mix times - are programmed into a memory chip and the precise quantities of each constituent are set by software adjustment from the keyboard. No adjustment of metering pump cams is required. The quantity dispensed depends on the volume of the measuring chamber, which is unlikely to change and is almost completely independent of pump characteristics. The plug-in memory is easily exchanged or re-programmed.

An efficient impeller, driven by a low voltage motor, thoroughly mixes the overflows, concentrates and water in a few seconds.

A 4 line LCD display and audio alarm provide fail safe warnings and in combination with a keypad, a very simple to use calibration and diagnostic facility. A number of options for remote data logging and control are available.

Almost any type of chemical pack can be used - plastic bottles, drums, or cubes. Large packs reduce chemical costs. For dimensions, technical specification and ordering particulars consult specification sheet and price list.

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