

# ACID DISPENSER FOR ULTRAMATIC 40 – 90 - 200



## ACID DISPENSER

### AUTOMATIC SYSTEM OF ACID ADDITION IN SAFETY FOR THE PREPARATION AND MAINTENANCE OF THE BATH

The acid dispenser was developed for the use with our ULTRAMATIC etching machines, but it can be used with your etchers too, offering the following benefits.

#### Rapid and exact preparation of the new bath:

- Automatic and exact dosage of the right quantity of water.
- Automatic and exact dosage of the right quantity of acid.

#### Maintenance of the bath:

- Bath level precisely constant: adding acid an equal volume of bath is removed, stocked in the dispenser and recycled because still usable.
- Precise additions of acid also for low regenerations: the automatic addition system through a dosing pump enables the accurate adding even of few decilitres of acid avoiding any contact with the operator.
- The quantity of Magnesium etched grows considerably enabling a longer life of the bath.
- Automatic start of the recycling pump at the end of each etching process in order to mix the bath present in the Ultramatic and the one in the Acid Dispenser.

#### Removal of the exhausted bath:

- A pump enables a fast and safe drain process of the exhausted bath into your collecting tank.

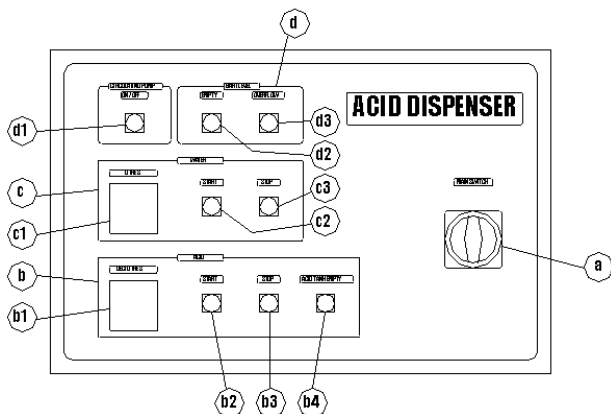
Dimensions: 700 x 600 x 1.350 mm.

Net weight: 80 kg.

Voltage: 400 V, 3ph + n + gnd.

Frequency: 50 or 60 Hz.

Current consumption: 3A max.



- Main and safety switch.
- Nitric acid dosing section.
  - Dosing system for the acid. Counter the acid quantity in decilitres. Example: acid to be added 3.6 litres, load on counter 36 decilitres.
  - Start. Put in function the acid dosing pump. Each pump stroke push 0.20 litre of acid in the Ultramatic, the number of pump strokes are counted and pump is stopped when the set dose is reached. Pump stroke length can be adjusted on the dosing pump to calibrate dose.
  - Stop. Suspend the dosing pump functioning.
  - Nitric acid warning pilot lamp, when the nitric acid tank is empty the dosing pump is stopped and the warning pilot lamp lights up. The dosing pump starts again to complete the regeneration when the acid tank has been replaced.
- Water dosing section.
  - Dosing system for the water. Counter of the water quantity in litres. Example: water for bath preparing 45 litres, load on counter 45.
  - Start. Put in function the water dosing system. An electro-valve is opened and the water flowing litres counted, when the set value is reached, valve is closed.
  - Stop. Suspend the water dosing system functioning. The electro-valve is closed.
- Bath circulating, bath unloading section.
  - Bath pump switch. Press the push button to star the pump, bath mixing or bath unloading is made depending from (k,l) taps position.
  - Dispenser empty pilot lamp. Lamp is on when chamber B of dispenser is empty, circulating/unloading pump is disabled.
  - Dispenser full pilot lamp. Lamp is on when chamber B of dispenser is full, water and acid dosing system are disabled no more bath can be added in chamber B, bath must be unloaded.



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