CORROSIONBOX

Model 100 A.I.

Corrosion test system with cycling immersion of samples in a salt solution.

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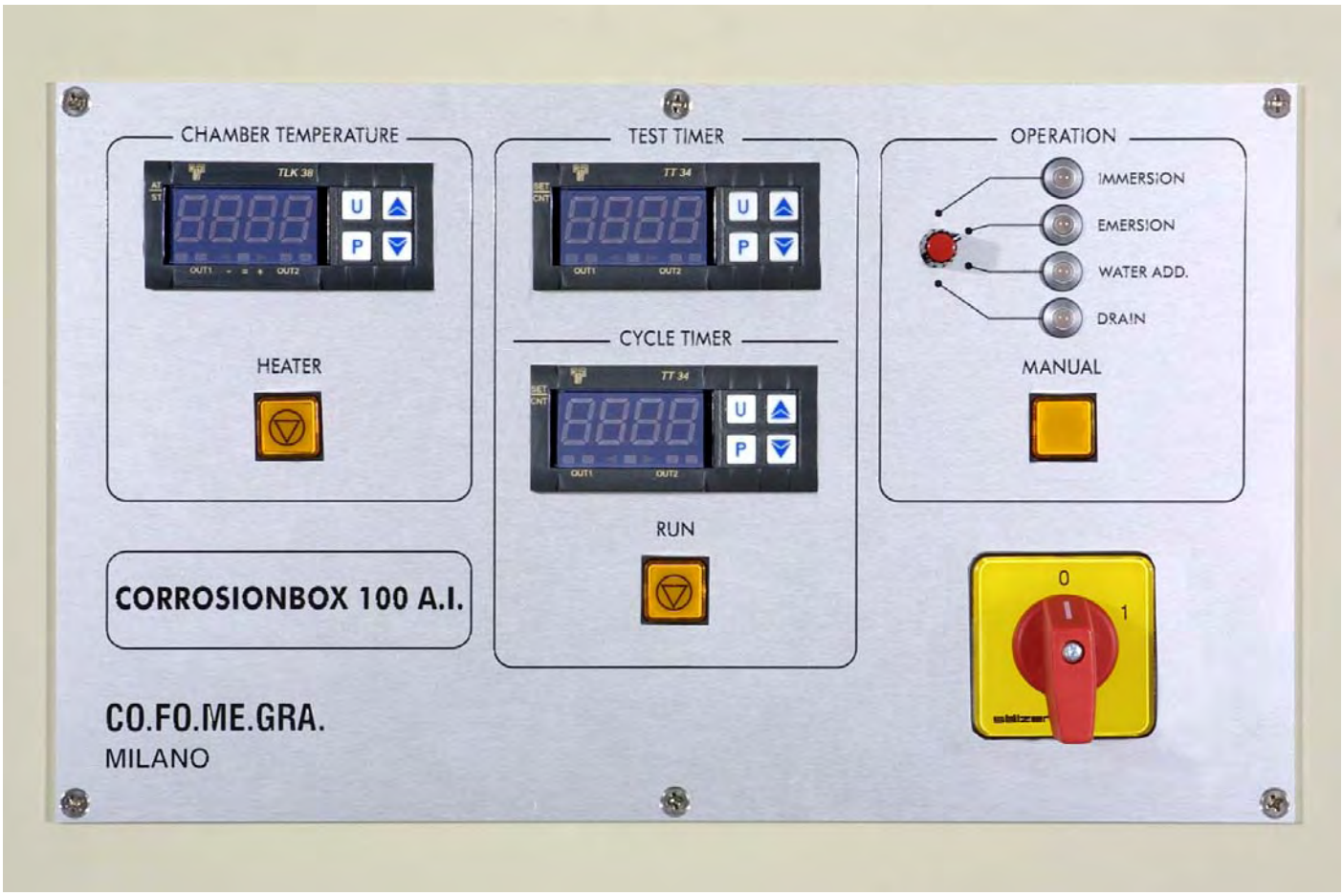
Control panel to select chamber temperature, immersion cycling and testing time.



Corrosion test chamber in conformity with EN3212 standard.

Test chamber built completely in PP resistant to corrosion. Basic characteristics:

- Temperature control system of the chamber with electronic digital thermoregulator. Temperature range: from ambient to 50°C (EN3212 standard requires 35°C).
- Container for the testing solution with specimen tray for specimen of 100 x 40 x 0,8-2 mm. Maximum number of specimen: 10 with 10 positions each.
- Device for cyclic specimen immersion in a solution contained in an apposite container. The immersion-emersion times are easily and simply programmable in a wide range through an electronic digital timer (EN3212 standard requires 2 hours immersion and 2 hours emersion).
- Digital electronic timer to set the total duration of the test. At the end of the test the specimen are held in emersion, the thermoregulation of the chamber is switched off and the solution automatically drained.
- Automatic system for restoring solution level with addition of distilled water drawn from an external tank.
- Automatic and manual system for draining the solution in an external collecting tank.

The points of standard EN3212 1995 that refer to the test apparatus

3 Principle
Immerse then emerge a sample in the test solution.

4 Apparatus
An environmental chamber equipped with a glass or plastic tank containing the test solution and an appropriate device to carry out the test automatically and continuously.
The chamber must be maintained at a temperature of 35 ± 2 °C and at a Relative Humidity ≥ 80%.

5 Test solution
It is given the composition of the solution.

6 Test pieces
Sample material complying to EN2633.
Sample minimum dimensions: 100 X 40 X 0,8 up to 2 mm.

7 Procedure
Make cuts in the test pieces in accordance with the annexes.
Immerse the test piece so that it is surrounded by at least 10 mm of the test solution. If there are several pieces in the chamber, the distance between them must be at least 10 mm. The volume of the solution must be > 4 ml/cm^2 of the test pieces surface.
A cycle comprises 2 hours of immersion and 2 hours of emersion.
The level of the test solution must be maintained constant by adding distilled or deionized water.
The test solution must be renewed twice during the first week, then every 10 days.

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