



RAPID CHLORIDE PERMEABILITY TESTER

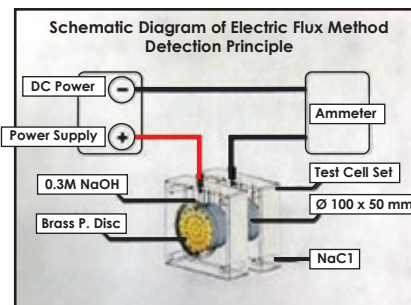
Standard: ASTM C1202 / AASHTO T277 / ASTM C1760

The **Rapid Chloride Permeability Tester** independently developed has user friendly interface. It is used for testing the durability of concrete exposed to chloride-contaminated environment. The test fixture design is suitable for cylindrical concrete test blocks, and the sample installation time is very short; the test uses corrosion-resistant electrodes, which can be used for a long time. With automatic acquisition, measurement and control system, the test results are reliable & accurate. The method for evaluating the ability of concrete to resist chloride ion penetration is referred to as the electric flux method.

To proceed testing, a **NL 4051 X / 001 – P005, Vacuum Saturation Apparatus** is required.

Features:

- >> Bright, high-resolution touchscreen for excellent visibility in both day and night conditions.
- >> Equipped with a versatile switching power supply featuring strong anti-interference capability, ensuring stable and reliable performance in both laboratory and field environments.
- >> Automatically calculates electric flux and allows specimen diameter input, removing the need for manual calculations.
- >> Data save intervals can be freely set by the user.
- >> Voltage is continuously adjustable from 0 to 60 V with high stability.
- >> Current & temperature ports are clearly marked and easy to connect.
- >> Full operation is controlled via the touchscreen, with the main unit capable of running the entire test automatically.
- >> High sampling speed of up to 12 readings per second, with data protection to prevent loss during power interruptions.



Test Cell Assembly

Technical Specifications :

Model Number	NL 4051 X / 001
Test Channels	6 Channels (For Ø100mm x 50mm specimen)
Applied Voltage & Accuracy	60 ± 0.1V (Adjustable)
Temp. Measuring Range & Accuracy	0 - 80 °C ± 1 °C
Range of Current Measurement & Accuracy	0 - 300 mA ± 0.1
Data Transfer	USB Flash Drive to PC
Dimension (mm) / Weight (Device)	300 (L) x 300 (W) x 200 (H) / 9kg
Dimension (mm) / Weight (Test Cell Set)	160 (L) x 150 (W) x 100 (H) / 1.2kg per set
Operation Voltage	220~240 V, 1 Ph, 50/60 Hz



Vacuum Saturation Apparatus

Technical Specifications :

Model Number	NL 4051 X / 001 – P005
Tank Size	Ø300 x 300mm
Accuracy	±1kPa
Vacuum Degree	-97kPa
Pumping Rate	7.2m³/h
Dimension	530 (L) x 450 (W) x 630 (H) mm
Weight	27.5 kg
Power	220~240 V, 250 W, 1 Ph, 50/60 Hz

Unit Consist Of :

Model Number	Parts Description	Qty
NL 4051 X / 001 – P 001	Rapid Chloride Permeability Tester	1 no
NL 4051 X / 001 – P 002	Test Cell Assembly	6 sets
NL 4051 X / 001 – P 005	Vacuum Saturation Apparatus	1 Unit