

Product Code

- UTC-1200 Rapid Chloride Permeability Test (RCPT) Equipment with Standard Cell, 110-240V 50-60 Hz, 1 ph**
- UTC-1201 Rapid Chloride Permeability Test (RCPT) Equipment Cell with Cooling Fins, 110-240V 50-60 Hz, 1 ph**
- UTC-1205 RCPT Measurement Unit for UTC-1200 and UTC-1201, 110-240 V 50-60 Hz, 1 ph**
- UTC-1210 RCPT Standard Cell, for UTC-1200**
- UTC-1220 RCPT Cell with Cooling Fins for UTC-1201**
- UTGE-3530 Vacuum Pump, Dual Stage 128 L/min capacity, 220-240V, 50-60 Hz, 1ph. (Optional)**
- UTGE-3552 Vacuum Gauge, Analog, Scale Range (-100/0 kPa).(Optional)**
- UTGE-3560 Vacuum Container with Water Inlet, 4,3 L. (Optional)**
- UTGE-3570 Air drying Unit/ Water Trap, Vacuum Type (Optional)**
- UTGG-2016 Filter Flask for Vacuum, 2000 ml (Optional)**

Standards

ASTM C 1202; ASTM C 1760

UTC-1200 and UTC-1201 Rapid Chloride Permeability Test Equipment (RCPT) are used for evaluation the resistance of a concrete sample to the penetration of chloride ions. Test is performed by placing a 100 mm diameter concrete cylinder into the sample cells that contain 3.0 % salt solution and 0.3 N sodium hydroxide solution. A voltage of 60 V DC is maintained across the ends of the sample throughout the test and the charge that passes through the sample is recorded. Based on the charge, a qualitative rating can be made of concrete's permeability.

UTC-1200 and UTC-1201 contain four cells, four PT-100 sensors for temperature monitoring during the test Utest provides two types of sample cells for RCPT. UTC-1220 has additional cooling fins and can be used when the temperature should be kept constant. Each of UTC-210 and UTC-1220 RCPT Cells include a spacer disks and a rubber gasket.

UTC-1205 RCPT Measurement Unit has 4 measurement channels, 190x64 resolution LCD screen,  $60 \pm 0.1$  V application voltage,  $0 - 400 \pm 0.1$  mA measurement range. Supplied complete with a power cord. Temperature and current measurements on each of the four cells is displayed on the unit.

USOFT-1200 Utest Software for RCPT tests. Using USOFT-1200 temperature and current measurements on each of the four cells can be displayed and final charge passed (Q) can be reported as excel and pdf.

To proper the specimens for the test, vacuum container (UTGE-3560), vacuum pump, vacuum gauge(UTGE-3552), 2 pcs. filter flask (UTGG-2016) or air drying unit / water trap (UTGE-3570) should be ordered separately.

UTGE-3530 Vacuum Pump is supplied with 3m plastic tube (Ø8mm OD) and an oto-nipple.

UTGE-3552 Vacuum Gauge, Analog, Scale Range (-100/0 kPa),

Accuracy (1.0 % of scale range), 1 kPa graduated, Ø63mm. Supplied with a valve, 4-way dispenser, muffler, an oto-nipple and its hanger.



UTGE-3530



UTGG-2015

Technical Specifications

Measurement Channels	4
Temperature Measurement Range	0-100°C
Dimensions	360x830x180 mm
Weight (approx.)	25,50 kg

UTC-1200 Rapid Chloride Permeability Test Equipment is supplied complete with;

- RCPT Measurement Unit with a power cord
- 4 pcs. RCPT cells(UTC-1210 or UTC-1220 acc. to the order),
- 4 pcs. temperature sensors,
- 4 pair Black&Red cables,
- USB cable for connection PC
- USOFT-1200 software for RCPT testing.