

ControlArt AB

Name of document	Type of document		
Technical Documentation			
Address	Issue	Issue date	Page
ControlArt HB, Allévägen 3, S-430 91 Hönö, Sweden	1.1		1 (2)
Tel: +46 (0)703 785212, Fax: +46 (0)31 968150			

Technical Documentation

The test equipment is first and foremost developed to satisfy the need of testing cyclic atmospheric corrosion with a good regulating accuracy.

Eleven unit step work operations is included in test equipment setup as follows:

1. Climate (humidity and temperature control)
2. Synthetic "rain" of salt solution which can be bee pH regulated.
3. Drying of chamber and samples by condensing out the surplus water.
4. Temperature control only
5. When raining, amount o rain high or low (preparedness for ECC1-test).
6. Extra function 24 V 1 on relay.
7. Extra funktion 24 V 2 on relay.
8. Extra function 24 V 3 on relay.
9. Extra funktionn 230 V 1 on relay.
10. No climate, only stand by recirculation the air.
11. Climate control with cooling in the circuit.

Installation requirements

Compressed air

Minimum 6 bar pressure. An air consumption of ca. 0.25 m³/min. The compressed air should be clean from dust particles and oil sediments and dried from water.

If you are not able to provide compressed air we could deliver equipment as an option.

Electricity

Required electricity outfit is 380 Volt with tripod, ground and neutral, with 3*16 A fuse. If earth fault breaker is requisite it has to be regulated when ordering the equipment.

Water

Clean deionised water or reversed osmosis water or likewise with a conductivity of less than 25 µS. The water must have a pressure of min 2,0 Bar. Consumption depends on the test method. When raining a consumption of app.110 litres per hour I needed, and within a normal climate cycle app. 1-2 litre per hour.

If the laboratory lacks a pressurised laboratory water system it could be delivered as an option.

Drainage

An outlet that can take the used a water flow containing mainly 0,5-1% of slightly acidified sodium chloride water solution.

The drain should be placed in connection with the Climate Chamber unit, preferably behind a line that could be described as the centre line in the longitudinal direction, see diagram below.

