

COLLECTION OF CTL DECISIONS

Standard: IEC 730-2-8, 1 st edition	Sub clause: 14	Sheet No. 244 B Page 1(1)
Subject: Heating test on equipment in operation, when tested in a heating cabinet without specification of air speed	Key words: - temperature rise – heating test – heating cabinet – air speed	Decision 15 taken at 32 nd meeting/1995 and confirmed at 36 th meeting/1999
<p>Question:</p> <p>When making a heating test, the temperature rise depends on the speed of the air circulation within the heating cabinet. What should be taken into account that the air speed of the heating cabinet has no influence of the test results?</p> <p>Decision:</p> <p>When water valves are tested, care must be taken to ensure that the air speed of the heating cabinet is sufficiently low, so that it will not cool the test sample unduly. When the temperature rise of the unit under test is close to the specified limit, then particular care needs to be taken, for example by the use of air baffles or a reduced fan speed. In this case it is advisable to measure the air temperature of the heating cabinet close to the test sample. The decision is limited to testing of water valves.</p> <p>Note:</p> <p>This decision is in line with the latest test specification given by TC 72 „Automatic controls“; indeed the 2nd edition of IEC 60730-1 adds in subclause 14.5 the following test specification for heating cabinets: „...<i>the test shall be conducted in an environment protected from drafts. Natural convection is permitted</i>“</p>		