



PERMANENT DOCUMENT

ENEC 303
Annex BE

**Annex BE
to Routine Test Requirements for manufacturers
(as per Article 9 of the Agreement)**

**Safety requirements for electrical equipment for
measurement, control, and laboratory use**

EN 61010-2-

**Part 2-010: Particular requirements for laboratory
equipment for the heating of Materials**

**Part 2-020: Particular requirements for laboratory
centrifuges**

**Part 2-030: Particular requirements for equipment
having testing or measuring circuits**

**Part 2-033: Particular requirements for hand-held
multimeters and other meters, for domestic
and professional use, capable of measuring
mains voltage**

**Part 2-081: Particular requirements for automatic and
semi-automatic laboratory equipment for
analysis and other purposes**

**Part 2-101: Particular requirements for in vitro
diagnostic (IVD) medical equipment**

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Annex BE to PD ENEC 303

Safety requirements for electrical equipment for measurement, control, and laboratory use – EN 61010-2-

Part 2-010: Particular requirements for laboratory equipment for the heating of Materials - EN 61010-2-010

Part 2-020: Particular requirements for laboratory centrifuges – EN 61010-2-020

Part 2-030: Particular requirements for equipment having testing or measuring circuits

Part 2-033: Particular requirements for hand-held multimeters and other meters, for domestic and professional use, capable of measuring mains voltage – EN 61010-2-033

Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes – EN 61010-2-081

Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment – EN 61010-2-101

1 ROUTINE TESTS (100%)

Test requirement of PD ENEC 303 Annex BA General requirements EN 61010-1 Part 1 is applicable for all the listed Part 2 standards.

1.1 Additional requirements for EN 61010-2-010:

Drying Out Time:

If the performance requirements of the equipment cannot be achieved without the use of hygroscopic heater insulation it is permissible for equipment to require a period of operation to dry out the insulation before meeting the requirements of the routine Test part 1 with F.3 MAINS CIRCUITS voltage test.

1.2 Additional requirements for EN 61010-2-020:

- Visual inspection of the critical components for the mechanical stability of the rotor assembly, bucket, chamber, protective casing, LID and if applicable the Bioseal device.
- Test run with max. rated speed.

1.3 Additional requirements for EN 61010-2-030:

Part 1 is applicable, except as follows. High Voltage Test in acc. To Annex K:
K.3 Insulation in circuits not addressed in 6.7, Clause K.1 or Clause K.2

K.3 Insulation for circuits not addressed in 6.7, Clauses K.1, K.2 or K.101, and for measuring circuits where MEASUREMENT CATEGORIES do not apply

K.101 Insulation requirements for measuring circuits of MEASUREMENT CATEGORIES II, III and IV:
Table K.102 – Test voltages for testing electric strength of solid insulation in measuring circuits of MEASUREMENT CATEGORY II

Table K.103 – Test voltages for testing electric strength of solid insulation in measuring circuits of MEASUREMENT CATEGORY III

Table K.104 – Test voltages for testing electric strength of solid insulation in measuring circuits of MEASUREMENT CATEGORY IV

2 PERIODIC TESTS

Test requirement of Part 1 is applicable:

PD ENEC 303 Annex BA Part 1: General requirements EN 61010-1