

Indian Standard
SPECIFICATION FOR
ELECTRIC BACTERIOLOGICAL INCUBATORS

(First Revision)

0. FOREWORD

0.1 This Indian Standard (First Revision) was adopted by the Indian Standards Institution on 21 November 1978, after the draft finalized by the Hospital Equipment Sectional Committee had been approved by the Consumer Products and Medical Instruments Division Council.

0.2 Formulation of standards on hospital equipment has been taken up on the recommendations of the Advisory Committee for the Development of Surgical Instruments, Equipment and Appliances of the then Ministry of Industry and Supply, Government of India.

0.3 This standard was first published in 1965 and now it has been revised keeping in view the latest developments in the manufacture of electric bacteriological incubators. In this revision, performance test for thermostats used has been included and the insulation resistance test has been modified.

0.4 This standard covers the general, performance and safety requirements for electrically heated incubators mainly used in laboratories for bacteriological and allied work, with a view to ensuring reliable operation, personal safety against electric shock, heat and fire. Dimensions of components parts have not been specified. It is recognized that some parts of incubators may have to be replaced during use. For this reason, it is essential that the manufacturers should so design their incubators that the spare parts of any particular size are interchangeable within one's manufacture.

0.5 Adequate provisions have been made throughout, the standard for safety and satisfactory design of the apparatus, bearing in mind the fact that a good deal of latitude is to be allowed to the individual manufacturer of incubators to introduce innovations and refinements.

0.6 General and safety requirements for household and similar electrical appliances (*fourth revision*) (IS: 302-1973) to which references have been

IS : 3118 - 1978

made in this standard with regard to general and safety requirements as well as methods of tests is a necessary adjunct to this standard. Should, however, any deviations exist between the requirements of IS: 302-1973 and those of this standard, provisions of the latter shall apply.

0.7 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard lays down the requirements and performance tests of electrically heated incubators used in the laboratories for bacteriological and allied work (*see* **2.1**), designed for thermostatic control at one or more temperatures above ambient and up to 80°C, and for connections to supplies at 240 V ac single-phase 50 c/s, or dc 230 or 240 V systems, with rated loading not exceeding 3 kW.