

Procedure for Application of Type-Approval of Table-Top Autoclave

The Owner or company applying for type-approval of table-top autoclave is required to submit the following documents to the Ministry of Manpower, Occupational Safety and Health Division, Specialists Department for consideration:

- A) Design calculations of autoclave. The design of autoclave should be based on one of the following design codes*:
- i) ASME Boiler & Pressure Vessel Code;
 - ii) British Standard (BS);
 - iii) Japanese Standard (JIS); or
 - iv) German Standard (TRD).

** Other internationally recognized codes may be accepted (subject to approval by the Ministry)*

- B) Construction drawings
The design calculations and construction drawings of the autoclave are checked and endorsed by an Authorised Examiner who is familiar with the design code.
- C) Manufacturer's certificate, which is signed by the Chief Executive Officer or someone holding similar post, certifying that the autoclave is designed to the requirements of the design code and the requirements of the Workplace Safety and Health Act.
- D) A copy of ISO 9000(or equivalent) Certification of the manufacturer.
- E) An undertaking by the Authorised Examiner as per Annex A.

**UNDERTAKING FOR APPLICATION OF TYPE APPROVAL
OF TABLE-TOP AUTOCLAVE BY AUTHORISED EXAMINER**

Particulars of Autoclave

| | |
|-----------------------|-------------------|
| Brand: | Model: |
| Name of Manufacturer: | E-Submission No.: |

Undertaking by Authorised Examiner

I, _____ (Name) _____ (NRIC No.)
_____ (AE No.) certify that the above-mentioned autoclave meets the following criteria:

- a. The autoclave is of table-top type and using electricity as the only form of power;
- b. The autoclave has a maximum steam volume of not more than **25 litres** and a maximum operating pressure of not more than **4 bars** gauge;
- c. Feed water cannot be continuously fed from the portable water main into the pressure chamber of the autoclave during the steam raising process of the sterilisation;
- d. The autoclave is designed to the code as ticked (✓) :
 - ASME Boiler & Pressure Vessel Code
 - British Standards and Code (BS)
 - Japan Industrial Standards (JIS)
 - German Standard (TRD)
- e. The manufacturer is an ISO9000 or equivalent certified company which has in place a manufacturing programme to ensure that the autoclave was manufactured to the requirement of the design code;
- f. The manufacturer has issued a manufacturing report (signed by the Chief Executive Officer or a staff holding a similar post) which certifies the code that the autoclave was designed and manufactured to, and that the autoclave has been successfully tested to the manufacturing tests specified in the codes;

- g. The autoclave meets the relevant requirements stipulated in Regulation 28 of the WSH (General Provisions) Regulations; and
- h. In addition to the safety devices stipulated in the WSH (General Provisions) Regulations, the autoclave has also been installed with [*please tick (✓) where applicable*]
 - [] An interlock device to positively prevent the door of the autoclave from being opened when the autoclave is under steam pressure; or
 - [] A pressure relief device to effectively remove all steam pressure in the autoclave before the door can be opened.

Any other comments:

Signature of Authorised Examiner

Date