

KENYA PUBLICLY AVAILABLE SPECIFICATION

KPAS 2920:2020

ICS 11.080

APPROVED
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First Edition

Sanitization booth — Specification

KPAS 2920:2020

TECHNICAL COMMITTEE REPRESENTATION

The following organizations were represented on the Technical Committee:

Adverteyez Ltd.
ASL Ltd.
Crown Paints (K) Plc
Crystal Impex Ltd.
Dominion Engineering
Engineering Supplies Ltd.
Jantech Engineering
Kenelec Technomation Ltd.
Megh Cushions Ltd.
Ministry of Health
Pamba Industries
Roto Moulders Ltd.
Kenya Bureau of Standards — Secretariat

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Foreword

This Kenya Standard was developed by various stakeholders as shown in the Technical Committee representation under the guidance of the Standards Projects Committee, and it is in accordance with the procedures of the Kenya Bureau of Standards.

This document gives the minimum specifications of a sanitization booth as an additional protective equipment to be used in public during the current COVID-19 pandemic or any other emergency declared by the Cabinet Secretary concerned with Health at the time. It sets out minimum requirements of what is 'minimally acceptable' performance in an emergency situation. It is for use in addition to use of contactless temperature guns when entering public buildings including hospitals, supermarkets, amongst others during emergency medical services.

Places with large number of people flow have had challenges of sanitizing resulting in long queues and waiting times. Sanitization booths endeavour to hasten mass flow of people through the booth in the shortest achievable timeframe while achieving efficient body exposure to aerosolized mists to attain the maximum body surface coverage.

Sanitization booth — Specification

1 Scope

This Kenya Publicly Available Specification specifies the minimum requirements, construction and use of locally manufactured sanitization booths during the COVID-19 pandemic or any other emergency declared by the Cabinet Secretary concerned with Health at the time.

2 Normative references

There are no referenced documents in this standard.

3 Terms and definitions

For the purpose of this document, the following terms and definitions apply.

3.1

sanitization booth

unit specifically designed for whole human body coverage while walking through or turning around, for sanitization purpose in public facilities in Kenya during the COVID-19 pandemic or any other emergency declared by the Cabinet Secretary concerned with health

3.2

frame

structure of the booth on which the side panels or clads are mounted

4 Requirements

4.1 General

All manufacturers shall have a risk management system in place related to:

- a) manufacturer's policy on risk;
- b) risk management plan; and
- c) users comfort, allergy and privacy are to be considered when manufacturing the sanitization booths.

4.2 Construction

4.2.1 Size and structure

4.2.1.1 The size and structure of the booth shall be dependent on available space, body coverage and preference of the purchaser.

4.2.1.2 The sanitization booth shall have the following dimensions as a minimum:

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- a) Height = 2.1 m;
- b) Width = 1m; and
- c) Length= 1.0 m.

4.2.2 Structure

The structure shall be made in such a manner to avoid collapse and shall consist of non-corrosive materials such as aluminium, hot-dip steel hollow sections, ultra- violet resistant plastics, fibre glass or any other material with equivalent properties that will ensure structural strength and durability (and general disinfectant chemical corrosion resistance, and surface wear resistance).

4.2.3 Cladding and/or canopy

These shall be of tapered top to eliminate external surface liquid stagnation and fabricated from suitable materials such as aluminium composite panels, hot-dip galvanized steel panels, ultra- violet resistant plastics or fibre glass.

4.2.4 Atomization nozzles

4.2.4.1 The atomization nozzles shall be of non-corrosive nature.

4.2.4.2 The atomization nozzles shall be such that vapour is precipitated and disbursed through atomization process, creating moisture throughout the “passage” as suspended approved cleansing sanitizer through the tunnel.

4.3 Sanitization chemicals

These shall be as prescribed by the Ministry of Health.

4.4 Contamination

4.4.1 Reverse delivery of contaminated chemicals shall be applied from the entry point to the exit in order to avoid taking contamination after exiting the sanitization booth. This shall be achieved by having the walking surface in the booth made with slight taper from entry to exit.

4.4.2 There shall be an under-feet cleansing design and waste residue channelled to a holding, flood drain or council drain in accordance with existing environmental laws and regulations.

4.4.3 The used chemical water shall be collected, treated before discharge to public water systems.

4.5 Components

The sanitization booth shall have the following operation units and controls:

- a) double diaphragm pump or any other suitable pump that can convey the sanitization chemical;
- b) control box (sensor);
- c) timer (6 seconds setting) and fail-safe switch in case of sensor failure;

- d) atomizing nozzles;
- e) sanitization chemical reservoir; and
- f) thermal imaging facility (optional).

NOTE Suitable compressors may be used in the in some installations.

5 Marking

5.1 The following information shall be indelibly and legibly marked on the equipment:

- a) name and physical address of the manufacturer;
- b) trade name, if any;
- c) name of the equipment, e.g. sanitization booth; and
- d) name of the disinfectant and disposal instructions.

5.2 The sanitization booth shall also be accompanied with instructions for safety, assembly and use, recommended cleaning and/or disinfection materials and processes.

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