Second edition
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Dentistry — Central suction source equipment

Médecine bucco-dentaire — Systèmes d'aspiration centrale

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Foreword

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This document was prepared by Technical Committee ISO/TC 106, *Dentistry*, Subcommittee SC 6, *Dental equipment.*

This second edition cancels and replaces the first edition (ISO 10637:1999), which has been technically revised.

The main changes compared to the previous edition are as follows:

— clarification of the scope;

— addition of the classification according to the air flow rate (Type 1, Type 2 or Type 3);

— addition of measurement and test methods;

— addition of diagrams for different suction source equipment in the Annexes.

Introduction

Dental suction systems evacuate solids, liquids, aerosols and gases from the oral cavity and immediate surrounding area for the purpose of improving operating effectiveness and efficiency during oral treatment procedures and limiting the contamination of the immediate environment. In central suction systems the equipment that generates suction and performs other supporting functions is located in a central location outside of the dental treatment room to isolate this equipment from the immediate vicinity of patient treatment and often to provide suction to multiple treatment rooms.

A central suction system consists of four basic elements:

1) dental treatment room suction components (e.g. dental unit suction system);

2) facility suction pipeline;

3) central suction source equipment;

4) exhaust pipeline.

The central suction source equipment consists of all the components from the facility suction pipeline connection point (i.e. discharge end of the facility suction pipeline) to the exhaust pipeline connection point (i.e. inlet to the exhaust pipeline). In addition to the equipment that generates air flow, centrally located amalgam separators and air water separators (if present) are also component parts of the central suction source equipment.