# ISO 22052:2020 (E)

## Dentistry — Central compressed air source equipment

# Contents


Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Classification

5 Requirements

5.1 Electrical safety
5.2 Electromagnetic compatibility
5.3 Quality of dental air
5.4 Performance
5.4.1 Air delivery flow rate of central compressed air source equipment
5.4.2 Condensate drain
5.4.3 Bacterial filter
5.4.4 Sound level of central compressed air source equipment
5.5 Test report

6 Sampling

7 Measurement and test methods

7.1 Visual inspection
7.1.1 General
7.1.2 Visual inspection of equipment
7.1.3 Visual inspection of documentation
7.2 Equipment performance
7.2.1 General test conditions
7.2.2 Air delivery flow rate at the central compressed air source equipment connection point
7.2.3 Air treatment system performance
7.2.3.1 Particles
7.2.3.2 Humidity
7.2.3.3 Oil content
7.2.4 Sound generation

8 Information to be supplied by the manufacturer

8.1 General
8.2 Instructions for use
8.3 Technical description
8.4 Information about the central compressed air source equipment location

9 Marking

9.1 Marking on the central compressed air source equipment
9.2 Marking of controls
9.3 Graphical symbols

Annex A (informative) Example of design of central compressed air source equipment

A.1 General
A.2 Minimum recommended air flow rate
A.3 Typical components of a central compressed air source equipment

A.4 Fresh air inlet
A.5 Air treatment system performance — Humidity

Annex B (informative) Typical arrangements of central compressed air source equipment in the dental facility and recommendations for construction and installation

B.1 Typical arrangements of central compressed air source equipment
B.1.1 Oil-lubricated dry receiver
B.1.2 Oil-lubricated wet receiver
B.1.3 Non-oil-lubricated dry receiver
B.1.4 Non-oil-lubricated wet receiver
B.2 Suction tube
B.3 Fresh air inlet
B.4 Dental compressor ventilation
B.5 Main line for dental air
B.6 Central compressed air source equipment connection point
B.7 Shut-off valve
B.8 Fittings
B.9 Pressure-regulating valve
B.10 Pressure of dental air
B.11 Air receiver

Annex C (informative) Suggested template for test report

Page count: 23