

DIN EN ISO 23402-3:2024-09 (E)

Dentistry - Portable dental equipment for use in non-permanent healthcare environment - Part 3: Portable suction equipment (ISO 23402-3:2024)

Contents		Page
European foreword	.....	4
Foreword	.....	5
Introduction	.....	6
1 Scope	.....	7
2 Normative references	.....	7
3 Terms and definitions	.....	8
4 Classification	.....	9
4.1 Applicable classifications	.....	9
4.2 Classification according to the degree of integration and location	.....	9
4.2.1 General	.....	9
4.2.2 Type A: Fully integrated	.....	9
4.2.3 Type B: Remote	.....	9
4.2.4 Type C: Standalone	.....	9
4.3 Classification according to air flow rate	.....	9
5 Requirements	.....	10
5.1 General	.....	10
5.2 Protection against electric shock	.....	10
5.3 Safety requirements	.....	10
5.4 Electromagnetic compatibility	.....	10
5.5 Utility requirements	.....	11
5.5.1 Compressed air supply	.....	11
5.5.2 Suction waste container	.....	11
5.6 Operational requirements	.....	11
5.6.1 General	.....	11
5.6.2 Cleaning	.....	11
5.7 Characterization of portable suction equipment flow rate performance	.....	11
5.8 Maximum suction pressure	.....	11
5.9 Amalgam separator	.....	12
5.10 Bacterial filter	.....	12
6 Sampling	.....	12
7 Measurement and test methods	.....	12
7.1 General	.....	12
7.1.1 General provisions for tests	.....	12
7.1.2 Reference conditions (air flow rates)	.....	12
7.1.3 Atmospheric conditions	.....	12
7.1.4 Other conditions	.....	13
7.2 Performance tests	.....	13
7.2.1 Measurement of flow rate performance	.....	13
7.2.2 Measurement of maximum suction pressure of portable suction equipment types A and C	.....	13
7.2.3 Measurement of maximum suction pressure of type B portable suction equipment	.....	13
7.2.4 Measures to prevent excessive suction pressure	.....	14
7.3 Bacterial filters	.....	14

7.4	Visual inspection	14
7.4.1	Visual inspection equipment.....	14
7.4.2	Visual inspection of documentation.....	14
7.5	Resistance to solutions for the cleaning process	14
7.5.1	Principle.....	14
7.5.2	Test specimens.....	14
7.5.3	Test conditions.....	14
7.5.4	Solution(s) for the cleaning process	15
7.5.5	Immersion procedure	15
7.5.6	Inspection.....	16
8	Information supplied by the manufacturer	16
8.1	General.....	16
8.2	Instructions for use.....	16
8.3	Technical description.....	17
9	Marking.....	18
9.1	General.....	18
9.2	Marking on the outside of electrically operated portable suction equipment.....	18
9.3	Marking of packaging.....	18
10	Packaging.....	18
	Bibliography.....	19