

# ISO 16571:2024-03 (E)

## Systems for revacuation of plume generated by medical devices

---

### Contents

Page

Foreword	iv
Introduction	v
<b>1 Scope</b>	<b>1</b>
<b>2 Normative references</b>	<b>2</b>
<b>3 Terms and definitions</b>	<b>2</b>
<b>4 General requirements</b>	<b>7</b>
4.1 Components	7
4.2 Systems	7
4.3 Capture device	8
4.4 Transfer tubing	9
4.5 Filtration subsystem	9
4.6 Control subsystem	9
4.7 Flow-generator	9
4.8 Exhaust subsystem	10
4.9 Colour coding	10
<b>5 Portable and mobile system requirements</b>	<b>10</b>
5.1 General requirements	10
5.2 Acoustic noise test	10
5.3 Ingress protection	12
<b>6 Stationary and pipeline system requirements</b>	<b>12</b>
6.1 Stationary plume evacuation systems	12
6.2 Design	12
6.3 Flow-generators	13
6.4 Exhausts	13
6.5 Flow-generator controls	13
6.6 Pipeline	14
6.7 Terminal units	14
6.8 Commissioning and testing	14
<b>7 Endoscopic and laparoscopic system requirements</b>	<b>15</b>
7.1 Active PESSs	15
7.2 Passive PESSs	15
<b>Annex A (informative) Rationale</b>	<b>17</b>
<b>Annex B (informative) Plume evacuation system implementation</b>	<b>20</b>
<b>Annex C (normative) Plume removal efficiency test method</b>	<b>23</b>
<b>Annex D (normative) Colour coding</b>	<b>29</b>
<b>Annex E (normative) Information to be supplied to the healthcare facility</b>	<b>32</b>
<b>Annex F (informative) Acoustic testing muffler design</b>	<b>35</b>
<b>Bibliography</b>	<b>37</b>