

DIN EN 14175-3:2019-07 (E)

Fume cupboards - Part 3: Type test methods

Contents		Page
European foreword		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Test room and general test conditions	6
4.1	Dimensions and construction	6
4.2	Test room conditions	7
4.3	Fume cupboard installation	7
4.4	Test conditions	7
4.4.1	General	7
4.4.2	Test sash positions	7
4.4.3	General procedure	8
5	Air flow tests	8
5.1	Extract volume flow rate	8
5.2	Face velocity	8
5.2.1	Test equipment	8
5.2.2	Probe positions	8
5.2.3	Test procedure	9
5.2.4	Data analysis and results	9
5.3	Containment	9
5.3.1	Test equipment	9
5.3.2	Test conditions	10
5.3.3	Positioning of test equipment for inner measurement plane	10
5.3.4	Positioning of test equipment for outer measurement plane	12
5.3.5	Test procedure	13
5.3.6	Data analysis and results	14
5.4	Robustness of containment	15
5.4.1	Test equipment	15
5.4.2	Test conditions	15
5.4.3	Positioning of test equipment	15
5.4.4	Test procedure	16
5.4.5	Data analysis and results	16
5.5	Air exchange efficiency	16
5.5.1	Test equipment	16
5.5.2	Positioning of injector grid and sampling probe	17
5.5.3	Procedure	17
5.5.4	Data analysis and results	17
5.6	Pressure drop	18
5.6.1	General	18
5.6.2	Test equipment	18
5.6.3	Test sash positions	18
5.6.4	Positioning of pressure taps	18
5.6.5	Test procedure	18
5.6.6	Expression of results	18
6	Sash tests	18
6.1	Sash suspension test	18

6.2	Sash displacement test	18
6.3	Protection against splashes	18
6.4	Sash stop and alarm test	18
7	Air flow indicator tests	19
8	Construction and materials tests	19
9	Illuminance test	19
10	Test report	20
	Annex A (informative) Sound tests	21
	Annex B (informative) A-deviations	22
	Bibliography	23