

DIN EN 14175-6:2006-08 (E)

Fume cupboards - Part 6: Variable air volume fume cupboards

Contents		Page
Foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Requirements	5
4.1	General	5
4.2	System status port	6
4.3	Air flow indicator	6
5	Type test methods	6
5.1	General	6
5.2	Test conditions	6
5.2.1	VAV fume cupboards (see 5.4)	6
5.2.2	VAV systems (see 5.3)	6
5.3	Test of VAV systems	6
5.3.1	General	6
5.3.2	Tests for air flow rate characteristics	7
5.3.3	Tests for dynamic control behaviour	9
5.3.4	Test of set points	11
5.4	Test of VAV fume cupboards	12
5.4.1	Test installation	12
5.4.2	Test of the integrated VAV system	12
5.4.3	Test of the VAV fume cupboard	12
6	On-site test methods	12
6.1	General	12
6.2	Extract volume flow rate at set points	12
6.3	Test of set points	12
6.4	Test of response time	13
6.5	Containment	13
6.6	Air exchange at minimum volume flow rate	13
7	Product manual	13
8	Marking and labelling	13
9	Test reports	13
9.1	Type test report for VAV systems	13
9.2	Type test report for VAV fume cupboards	14
9.3	On-site test report for VAV fume cupboards	14
Bibliography		16