



MANUFACTURED IN IRELAND
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 Phone: 353 (0)1 835 1311
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CONTAINMENT TESTING

FUME CUPBOARD TEST SHEET

Location: Dublin
Type: 1500mm Fume Cupboard, Bench Mounted, VAV



Velocity Test (inner-plane)

01 0.59	04 0.64	07 0.62	10 0.61	13	16
02 0.57	05 0.56	08 0.55	11 0.60	14	17
03 0.60	06 0.59	09 0.58	12 0.54	15	18

Opening Height:	500mm
Opening Width:	1180mm
Design Velocity:	0.50m/s
Lab Pressure	N/A
Average Velocity:	0.59m/s
Monitor Calibration:	*
Loading:	Empty
Pass / Fail:	PASS

Up to 1020mm - 9 points 1025mm to 1425mm - 12 points
 1430mm to 1830mm - 15 points 1835 to 2235mm - 18 points
 Test Standard: BS EN 14175-4

Test Instrument	Serial Number	Calibration Date
TSI Hot-wire Anemometer	TA4301146803	05-Dec-16

Velocity Comments: * Airflow monitor is in need of calibration. The average face velocity is 0.59m/s while the target is 0.50m/s.

Fume Cupboard Inspection

Fabric

Overhead Access Doors	
Back Baffle	
Internal Lining/Worktop	
Front Aerofoil	
Under Bench Cupboard	
Ductwork	

Mechanical

Fans	
Damper (VAV/VCD)	
Sash Mechanism	
Lighting	
Services	
Monitor/Alarm	

Inspection Comments: Inspections not carried out.

Containment Tests (inner-plane)

All values are in ppm of SF6

Position P01	Position P03	Position P05	Position P07	Position P09
Mean: <0.005	Mean: <0.005	Mean: <0.005	Mean:	Mean:
Max: <0.010	Max: <0.010	Max: <0.010	Max:	Max:
Position P02	Position P04	Position P06	Position P08	Position P10
Mean: <0.005	Mean: <0.005	Mean: <0.005	Mean:	Mean:
Max: <0.010	Max: <0.010	Max: <0.010	Max:	Max:

Up to 875mm - 4 locations 880mm to 1480mm - 6 locations
 1485mm to 2085mm - 8 locations 2090 to 2690mm - 10 locations
 Test Standard: BS EN 14175-4

Test Instrument	Serial Number	Calibration Date
Miran 205B-DL2A3N	80342-480(L)	24-Aug-16

Containment Comments:

Checked	Engineer	Signature	Test Date
Andrew Lange	Iain Mathison	<i>Andrew Lange</i>	11th Jan 2017



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CONTAINMENT TESTING

FUME CUPBOARD TEST SHEET

Location: Galway.
Type: 1600mm Chemical Systems, Bench Mounted, Vertical Sash, CAV.



01 0.53	04 0.53	07 0.50	10 0.54	13	16
02 0.52	05 0.49	08 0.51	11 0.57	14	17
03 0.48	06 0.50	09 0.50	12 0.52	15	18

Opening Height:	445mm
Opening Width:	1280mm
Design Velocity:	0.50m/s
Lab Pressure	Neg 1.5Pa
Average Velocity:	0.52m/s
Loading: Empty	✓
Loading: Light	
Loading: Medium	
Loading: Heavy	
Loading: V Heavy	

Up to 1020mm - 9 points 1025mm to 1425mm - 12 points
 1430mm to 1830mm - 15 points 1835mm to 2235mm - 18 points

Test Standard: BS EN14175-4

Test Instrument	Serial Number	Calibration Date	Alarm Tested	Alarm re-calibrated	Test Result
TSI Hot-wire Anemometer	TA4301146919	14-May-14	No	No	PASS

Cabinet Condition

Fabric

Overhead Access Doors	OK
Back Baffle	OK
Internal Lining/Worktop	OK
Sash Condition	OK
Under Bench Cupboard	OK
Ductwork	OK

Mechanical

Fans	N/A
Damper (VAV/VCD)	OK
Sash Mechanism	OK
Lighting	OK
Services	N/A
Monitor/Alarm	ChemFlow Monitor: OK

Comments:

Containment Tests (inner-plane)

All values are in ppm of SF₆

Position P01	Position P03	Position P05	Position P07	Position P09
Mean: <0.005ppm	Mean: <0.005ppm	Mean: <0.005ppm	Mean:	Mean:
Max: <0.010ppm	Max: <0.010ppm	Max: <0.010ppm	Max:	Max:
Position P02	Position P04	Position P06	Position P08	Position P10
Mean: <0.005ppm	Mean: <0.005ppm	Mean: <0.005ppm	Mean:	Mean:
Max: <0.010ppm	Max: <0.010ppm	Max: <0.010ppm	Max:	Max:

Up to 875mm - 4 locations 880mm to 1480mm - 6 locations
 1485mm to 2085mm - 8 locations 2090mm to 2690mm - 10 locations

Test Standard: BS EN14175-4

Test Equipment: Miran 205B SN: ISO020 Calibration Date: 01-Jan-2015

Comments:

* Lab Temp = 19°C.

Checked	Engineer	Signature	Test Date
D. Milne	A. Lange		24th March 2015



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CONTAINMENT TESTING

FUME CUPBOARD TEST SHEET

Location: Dublin
Type: 2300mm Fume Cupboard, Vertical Sash, Bench Mounted, VAV



Velocity Test (inner-plane)

01 0.53	04 0.54	07 0.52	10 0.54	13 0.56	16 0.52
02 0.59	05 0.53	08 0.53	11 0.51	14 0.50	17 0.51
03 0.52	06 0.54	09 0.56	12 0.52	15 0.56	18 0.55

Opening Height:	500mm
Opening Width:	1980mm
Design Velocity:	0.50m/s
Lab Pressure	Neg 4Pa
Average Velocity:	0.54m/s
Monitor Calibration:	Good
Loading:	Medium
Pass / Fail:	PASS

Up to 1020mm - 9 points 1025mm to 1425mm - 12 points
 1430mm to 1830mm - 15 points 1835 to 2235mm - 18 points
 Test Standard: BS EN 14175-4

Test Instrument	Serial Number	Calibration Date
TSI Hot-wire Anemometer	9545A0713012	17-Jun-16

Velocity Comments:

Fume Cupboard Inspection

Fabric		Mechanical	
Overhead Access Doors		Fans	
Back Baffle		Damper (VAV/VCD)	
Internal Lining/Worktop		Sash Mechanism	
Front Aerofoil		Lighting	
Under Bench Cupboard		Services	
Ductwork		Monitor/Alarm	VAV Control

Inspection Comments: Inspections not carried out.

Containment Tests (inner-plane) All values are in ppm of SF6

Position P01	Position P03	Position P05	Position P07	Position P09
Mean: <0.005	Mean: <0.005	Mean: <0.005	Mean: <0.005	Mean:
Max: <0.010	Max: <0.010	Max: <0.010	Max: <0.010	Max:
Position P02	Position P04	Position P06	Position P08	Position P10
Mean: <0.005	Mean: <0.005	Mean: <0.005	Mean: <0.005	Mean:
Max: <0.010	Max: <0.010	Max: <0.010	Max: <0.010	Max:

Up to 875mm - 4 locations 880mm to 1480mm - 6 locations
 1485mm to 2085mm - 8 locations 2090 to 2690mm - 10 locations
 Test Standard: BS EN 14175-4

Test Instrument	Serial Number	Calibration Date
Miran 2058-DL2A3N	80342-480	24-Aug-16

Containment Comments:

Checked	Engineer	Signature	Test Date
Andrew Lange	Iain Mathison	<i>Andrew Lange</i>	14th February 2017