



Airtech Premier Ltd

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Accessible / Reliable / Affordable / Accountable / Sustainable

COMMISSIONING & TEST REPORT

For the Attention of: _____

System: KITCHEN EXTRACT

Contract: VARLEY STREET

Client: VAUGHANS

Remarks:

	Sheet Ref: ATS-2A
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Date: 30/09/25	Engineer: D GRIMES	Sheet No. 1 of 4
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Airtech Premier Ltd

Client: VAUGHANS
System: KITCHEN EXTRACT
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AIR SYSTEM PRE-COMMISSIONING SHEET



With electrical supply isolated, check the following:	Y / N	Comments / follow-up reference
General Checks:		
1 Installation complete.	Y	Verified by: VAUGHANS
2 Air leakage tests complete. (if applicable)	Y	Verified by: VAUGHANS
3 Branch regulating dampers open.	Y	
4 Grille/Diffuser regulating dampers open.	Y	
Electrical Checks:		
5 Power available	Y	Refer To Controls Specialist Report
6 Starter overload range correct.	Y	Refer To Controls Specialist Report
7 Starter overload set to motor FLC	Y	Refer To Controls Specialist Report
8 Motor runs at or below FLC	Y	Refer To Controls Specialist Report
Mechanical Checks:		
9 Fan chambers clean.	Y	
10 Filters fitted.	Y	
11 Inlet free from obstruction.	Y	
12 Flexible connections airtight at fan	Y	
14 Drive guard fitted.	Y	
15 Transit bolts removed.	Y	
16 Impellor free to rotate.	Y	
17 Unit dampers set to full fresh air	Y	
18 Axial fans installed for correct air flow direction.	Y	
19 Rotation of motor shaft is correct.	Y	
20 Motor, fan and drive are free from vibration and undue noise	Y	

Remarks:

		Sheet Ref: ATS-3A
Date: 30/09/25	Engineer: D GRIMES	Sheet No: 2 of 4

Client:	VAUGHANS
System:	KITCHEN EXTRACT
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Contract: *VARLEY STREET*



Fan Test Sheet

FAN	Manufacturer	ELTA FANS		Serial No.		500099720	
	Type	GA04090-12411-6673		Model No.		BIFCN040K2	
		Units	Design		Test		% Design
	Volume	m3/s	0.845		0.858		102%
	Static Pressure	Pa	Not Stated		- 260	+ 180	Total SP 440
		Design			Test		
	Speed	2880		RPM	SEE BMS RPM		
MOTOR	Manufacturer	ELTA FANS		Output Kw		2.2	
	Type	GA04090-12411-6673		Model No.		BIFCN040K2	
	Serial No	500099720		Full Load Current		4.6 Amps	
	Voltage	415/3/50					
		Design			Test		
	Speed	2880		RPM	SEE BMS RPM		
	Comments:						

Airtech Premier Ltd

Client: *VAUGHANS*

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DUCT VOLUME TEST SHEET



Test Point Location	Design Volume m^3/s	Duct Size mm	Duct Area m^2	Velocity m/s
<i>ROOF</i>	<i>0.845</i>	<i>450 x 400</i>	<i>0.18</i>	<i>4.69</i>

VELOCITY PROFILE (taken facing air flow)

UNITS = m/s

LEFT								RIGHT	
T O P ↑ ↓ B O T T O M	1	2	3	4	5	6	7	8	
	4.8	4.6	4.8						A
	4.4	4.5	4.5						B
	5.1	5.1	5.1						C
									D
									E
									F
									G
									H
									I
	14.3	14.2	14.4						J
Total of Velocities:								42.9	

Average Velocity m/s	Test Volume m^3/s	% of Design	Static Pressure Pa
<i>4.77</i>	<i>0.858</i>	<i>102</i>	<i>160</i>

Remarks:

FAN RUNNING AT 73%

Instruments used: (Ref.No): *MICROMANOMETER*

Sheet Ref: *ATS-12A*

Date: *30/09/25* Engineer: *D GRIMES*

Sheet No: *4* of *4*