

# LEV PERFORMANCE TEST REPORTS



## INFRATEC UK LTD

Thorough Examination & LEV Performance Tests

Carried out on 11/09/2024

by Air-Tech Tees Valley Ltd

Air-Tech Tees Valley Ltd

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# LOCAL EXHAUST VENTILATION PERFORMANCE TEST REPORT

PERSON CARRYING OUT TEST		LOCATION OF TESTING	
Laura A Wathey Air-Tech Tees Valley Ltd Cowpen Lane Industrial Estate TS23 4JB		Infratec UK Ltd Unit 8-9 Easter Park Barton Road Middlesbrough TS2 1RY	
Date Of Examination	Next Examination Due	Date of Previous Examination	
11/09/2024	11/11/2025	18/07/2023	
Examiners Signature		LEV Responsible Person Signature	
<i>L A Wathey</i>			
Instruments Used	Calibration Date	Next Calibration Due	
Multifunction anemometer, Serial no. 9565P1426001, Complete with / compatible with the following: <ul style="list-style-type: none"> <li>- differential pressure ports, static pitot tube.</li> <li>- 100mm rotating vane.</li> <li>- Hot wire articulating probe complete with thermometer.</li> </ul> - Micro fogger 3 smoke generator  T9600 particle counter	13/09/2023	13/09/2024	
Process Controlled			
Soldering fumes.			
Conditions At Time of Test			
Air-Tech Tees Valley attended site on 11/09/2024 to conduct the routine thorough examination and test of a LEV system at Infratec UK Ltd to comply with regulation 9 of CoSHH 2002.  We conducted quantitative and qualitative assessments at flexible hoses and ducts (test points at least 6/8 duct diameters away from turbulence <b>where possible</b> ) Smoke containment tests were used to help establish control effectiveness. Equipment was in normal production operating conditions at the time of testing and were observed in use where possible, these visual checks were also used to help establish control effectiveness when possible. The average ambient temperature was around 18.6 degrees at the time the tests were carried out.			

# LOCAL EXHAUST VENTILATION PERFORMANCE TEST REPORT

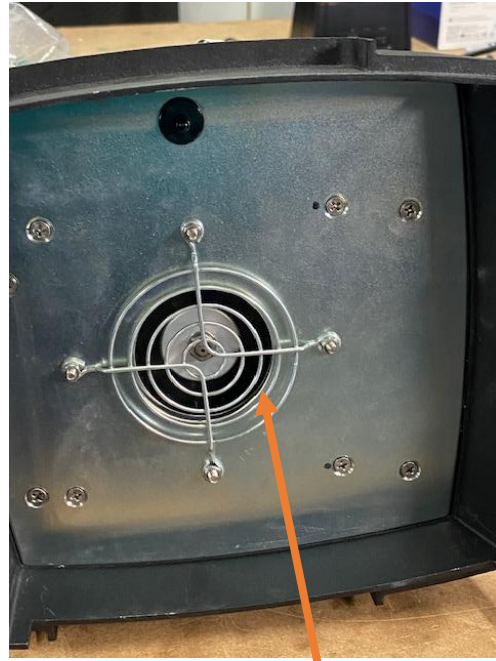
[illegible]

## SYSTEM PHOTOS



Capture hood

Flexible arm



Extract fan/filter housing

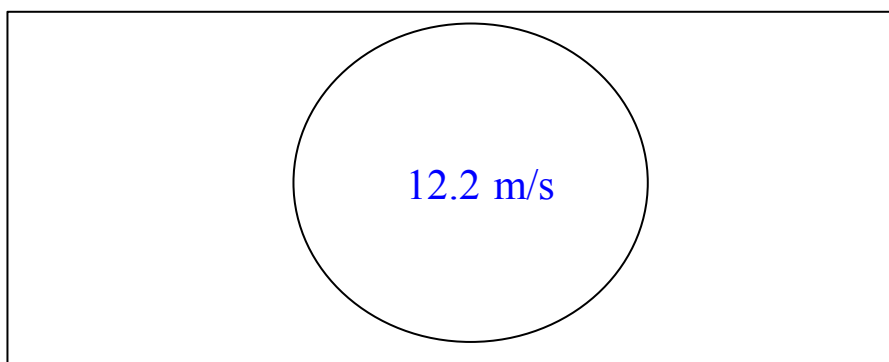
Extraction fan



Carbon filter

## LOCAL EXHAUST VENTILATION TEST REPORT

Registration number	LEV 1	Company	Infratec UK Ltd
Location	EE Workshop	Unit	Oki mobile fume extractor
Point of measurement	Target velocity	Achieved Velocity	Reading acceptable?
Hose Entry	5 m/s	12.2 m/s	Yes



40 mm diameter

Area m <sup>2</sup>	x	Average Velocity	x	3600	=	Total extract rate m <sup>3</sup> /hr
0.0012	x	12.20 m/s	x	3600	=	53 m <sup>3</sup> /hr

<b>Qualitative Tests</b>	PASS
Smoke containment test:	Showed good containment
Tyndall beam test:	N/a to this inspection

**Comments:**

Static pressure = - 201Pa.

Achieved an effective capture distance of 65mm when challenged with smoke.

<b>Control Effectiveness:</b>	EFFECTIVE	POOR	UNCERTAIN
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**Actions Required:**

<b>Actions Completed</b>	<b>Equipment owner/responsible person</b>
Date:	Signature:

# LOCAL EXHAUST VENTILATION INSPECTION TEST REPORT

Registration number	LEV 1	Company	Infratec UK Ltd
Location	Workshop	Unit	Oki mobile fume extractor
Performance test	Satisfactory		
Previous report reviewed?	Yes		
<b>CONDITION OF SYSTEM</b>			
Component	Condition satisfactory or specify defects		
Enclosures/booths/captor hoods	Ok		
Ducting	Ok		
Flexible	N/a		
Dampers	N/a		
Explosion relief panels	N/a		
Air cleaner casing	Ok		
Primary filters	Ok		
Secondary filters	N/a		
Fan casing	Ok		
Drive belts	N/a		
Drive motor	Ok		
Stack	N/a		
Comments			
Indicative particle count testing showed the filter was working effectively at time of test.			
<b>INSPECTORS REPORT</b>			
Name of person carrying out inspection	L A Wathey		
Job Title	Engineering Technician		
1. The system is:	Satisfactory		
2. The inspection interval should remain:	The same		
3. The next inspection will be due before:	11/11/2025		
Signature: <i>L A Wathey</i>	Test date: 11/09/2024		
<b>ACTIONS REQUIRED</b>			
Actions completed	(equipment owner/responsible person)		
Date:	Signature:		