

Local Exhaust Ventilation Thorough Examination & Test Report

Customers name

Address

Post code

March 2021

LEV System Reference:17863/001-012

Report Number:17863

Test Engineer: Name

Signed:



BOHS
The Chartered Society for Worker Health Protection

British Occupational Hygiene Society Certified P601 Certificate No XXXXX/003

Ducting Express Services Ltd, 7, Claymill Road, Thurmaston, Leicester, LE4 9JJ. Tel: 01455 616444, Fax: 01455 616442, info@ducting-express.co.uk, www.ducting-express.co.uk



Introduction:

Ducting Express Services Ltd were commissioned to conduct the thorough examination and testing of the Local Exhaust Ventilation system(s) as laid out in the report shown on the following page. The work was carried out as a direct result of, and in accordance with the Control of Substances Hazardous to Health (COSHH) Regulations 2002 (as amended) and as per guidelines detailed in HSG258 Controlling airborne contaminants at work; A guide to local exhaust ventilation (LEV). All testing is carried out in line with the latest HSE guidance, COSHH/HSG258 and by P601 accredited testers or equivalent competent person.

COSHH regulations 9 (2) requires that all control measures are given a thorough examination and test at suitable intervals. For most types of LEV systems the tests should be carried out at a maximum interval period of 14 months, however, in practice this is usually taken to mean annually. You should also be aware that many other factors could determine that the testing should be carried out on a more frequent basis. These factors include, but are not limited to, process, wear and tear, degradation and cleaned air being fed back in to the working area (return air system).

This report must be retained and saved in accordance with the COSHH Regulations for a minimum of 5 years by the site employer. Your attention is drawn to the requirements of HSG 258 - section 9. It is recommended that a user manual logbook is maintained. We trust that you will find this report comprehensive, but should you have any queries, please do not hesitate to contact us on 01455 616444.

Tables below provide indicative values of performance levels related to LEV systems as per recommended guidance HSG 258.

Capture velocity is the velocity required at a contaminant source to overcome the movement of the contaminant cloud and draw it into the hood. Please see our recommended minimum capture velocities quoted below.

Contaminant cloud release	Example of process	Capture velocity range, m/s
Into still air with little or no energy	Evaporation, mist from electroplating tanks.	0.25 to 0.5
Into fairly still air with low energy	Welding, soldering, liquid transfer.	0.5 to 1.0
Into moving air with moderate energy	Crushing, spraying.	1.0 to 2.5
Into turbulent air with high energy*	Cutting, abrasive blasting, grinding.	2.5 to > 10

^{*} These types of cloud are difficult to control using capturing hoods.

The air velocity through the duct must be high enough to keep particles suspended in the air stream. The required transport velocity depends on the type of contaminant being conveyed. Please see our recommended minimum duct velocities below.

Type of contaminant	Indicative duct velocity, m/s		
Gases and non-condensing vapours	5		
Condensing vapours, fume and smoke	10		
Low or medium density, low moisture content dusts (plastic dust, sawdust), fine dusts & mists	15		
Process dust (cement dust, brick dust, wood shavings, grinding dust)	≈20		
Large particles, aggregating and damp dusts (metal turnings, moist cement dust, compost)	≈25		



Summary Overview:

On this occasion a previous report was made available to us and the details contained within the report have been used as a benchmark by us. Original design or commissioning data was not made available to us. In all other cases, comparisons were made with theoretical design figures and good working practices.

The level of control achieved by any system depends on a number of factors, such as the hazardous nature of the substance used, the risks presented by their use, the duration of exposure, work practice and the availability of personal protective equipment. Consequently, the comments made in this report should be interpreted in conjunction with any assessment of risk performed in accordance with COSHH Regulation 6 and other related assessments.

Considering the above, the detail of all the measurements taken can be found in the report along with the technical information collected on each system. An outline of the more significant points are on the General Summary page.

LEV System Evaluation:

LEV Ref	Description/System Name	Location	Action Required/ Advised
17863-001	Polishing extraction	Trimming Area	Satisfactory
17863-002	Brazing extraction	Brazing area	Satisfactory
17863-003	Metal cutting extract	XWB cell	Satisfactory
17863-004	Dust extraction	Wrapping and flattening Cell	Satisfactory
17863-005	Portable Extraction Unit	Foil forming cell	Satisfactory
17863-006	Metal cutting extract	Safran Cell	Satisfactory
17863-007	Metal cutting extract	safran Cell	Satisfactory
17863-008	Welding fume Extract	Welding Bay	Satisfactory
17863-009	Fume Extraction	Compipe	Satisfactory
17863-010	Fume Extraction	Compipe	Satisfactory
17863-011	Fume Extraction	Compipe	Satisfactory
17863-012	Drum sander extract	Compipe	Satisfactory



Test Report

LEV Reference	17683-001	
System description	Extraction of Oil mist from cutting process	
Date of previous TEST	03.02.2020	
Date of latest TEST	02.03.2021	
Due date for next TEST	March 2022	
Location	Trimming	
Process/substance source	Metal cutting	
Control effectiveness	SATISFACTORY	
Hazard to be controlled	Oil mist	
Operators usage	Not witnessed	
Operating conditions	Ran in test mode	
Instruments used	Hot wire anemometer AS Ref 1	
	Smoke tester AS	
Calibration Notes	All calibration records are kept at our head office in both hard	
	and soft copies and are available on request	
Customer LEV logbook completed?	Yes	
Modifications made to system?	No - Checked to drawing	
Recommendations	None	



Filter/	Air Cleaner	Filter 1	Filter 2	
Make	Make		n/a	
Model		Unknown	n/a	
Туре		Inline	n/a	
Serial Number		Unknown	n/a	
Filter media type		Unknown	n/a	
Filter cleaning mechanis	m	Replacement	n/a	
Explosion relief vent	.0	n/a	n/a	
Pressure drop (Pa)	0'~	n/a	n/a	
Inlet static pressure (Pa)		n/a	n/a	
Outlet static pressure (P	a)	n/a	n/a	
Satisfactory		Yes	n/a	
Comments		None	n/a	
		Ducting		
Type/Description		Plastic flexible	e/Galvanised spiral	
Recommended	0.50	Recommended	10.00	
Capture Velocity (m/s)		Duct Velocity (m/s)	•	
Are the ductwork/hoods	s etc in a satisfactory	Yes		
condition?				
Damper settings		Open or closed		
Stack height & termination		Outside		
Return air fitted? Position?*		n/a		
Satisfactory		Yes		
Comments		ı	None	

^{*} If a return air facility is in use then we advise that the frequency of testing should be at least once every 6 months



Fan(S)

Detail	Fan 1	Fan 2
Туре	Inline	n/a
Supplier	Unknown	n/a
Serial number	Unknown	n/a
Fan speed (rpm)	Unknown	n/a
Drive type	DD	n/a
Fan Status	Operational	n/a
Rotation (from drive side)	Unknown	n/a
Motor speed (rpm)	Unknown	n/a
Motor power (kW)	Unknown	n/a
Motor voltage (V)	240	n/a
Motor full load current (A)	Unknown	n/a
Satisfactory	Yes	n/a
Comments	None	n/a



General Summary of LEV System

Hazard to be controlled	Oil mist
Sources	Metal cutting
WEL (if known) mg/m³ 8hr TWA	MSDS on site for reference
Is the system used correctly? (Advise where necessary)	Yes
Is the system in good condition?	Yes
Is the system clean?	Yes
Air quality testing carried out?	Yes - See additional report
Repairs undertaken during inspection?	No
Is the control adequate under regulation 7 of the C.O.S.H.H. 2002 regulations	Yes

Further comments

From the test results, the filter and fan are confirmed as suitable for intended application.

Ducting Express Services opinion is that the levels of oil mist emanating from area will not exceed TLV's regulated by the HSE, especially considering PPE regulations in place on site. Extraction from the internally located fan/filter is efficient and as such operators are at no risk in terms of oil mist inhalation.

Log book completed to conform to H&S Guidance note 258, section 9.

The LEV system has therefore provided PASS in terms of relevant COSHH regulation and is Satisfactory in its present condition at the time of testing.

Action Required:	No
Quotation to be provided by	No
Ducting Express Services Ltd:	NO

To be completed by the LEV owner after rectification work is completed and entered in the logbook to system (if appropriate).

ACTION TAKEN:	
WORK CARRIED OUT BY:	

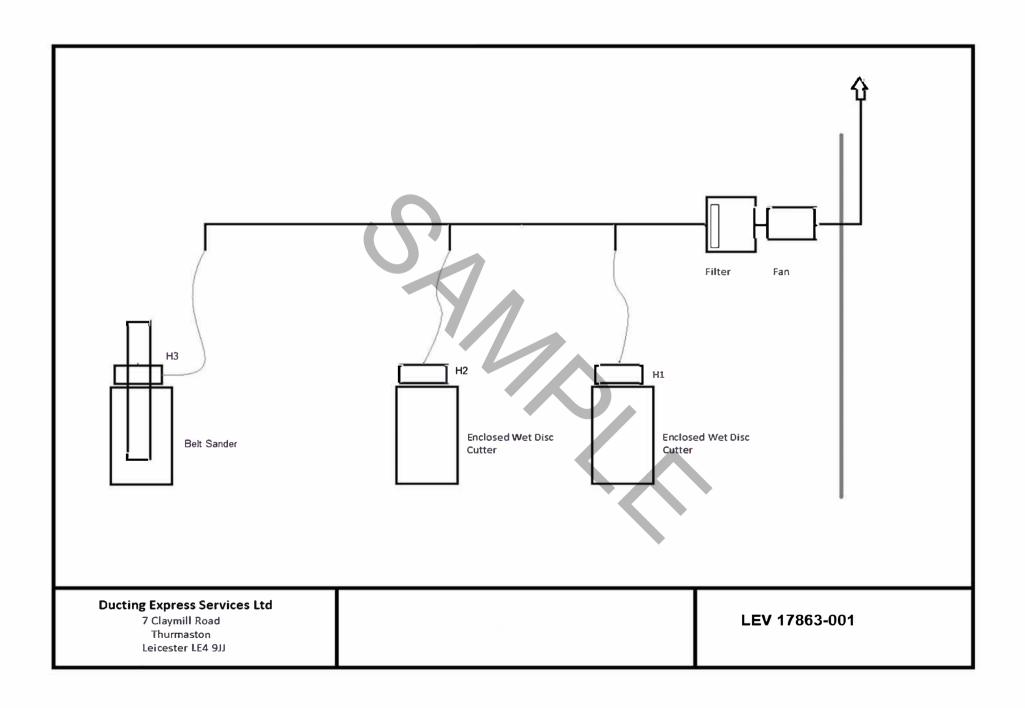


Reference Sheet

Syste	m Reference Number	17863-001									
		Circular Hoods/Enclosures									
Test Point no.	Reference	Hood Type	Hood dia (mm)	Area (m²)	SP (Pa) Behind hood	Face Velocity (m/s)	Vol (m³/hr)	Airflow indicator fitted	Qualitative testing Method	Capture Distance (mm)	Satisfactory
1H	Hood 1	Capturing	125	0.012	n/a	12.30	543.40	No	Smoke test	300.00	Yes
2H	Hood 2	Capturing	125	0.012	n/a	14.60	645.01	No	Smoke test	300.00	Yes
3H	Hood 3	Capturing	125	0.012	n/a	6.35	280.53	No	Smoke test	300.00	Yes

Qualitative Containment Test Report

Summary:- Airflows recorded within guidelines set out in HSG 258 and to be used as a bench mark for future testing. Hoods effective to above stated distances when smoke tested, and to be used no further from process when in use in order to achieve effective control.





Test Report

LEV Reference	17863-002	
System description	Extraction of fumes from brazing pro-	cess.
Date of previous TEST	03.02.2020	
Date of latest TEST	02.03.2021	
Due date for next TEST	March 2022	
Location	Brazing Area	
Process/substance source	Welding/Brazing	
Control effectiveness	SATISFACTORY	
Hazard to be controlled	Welding Fumes	
Operators usage	Not witnessed	
Operating conditions	Operational	
Instruments used	Manometer & pitot tube Ref	
	Hot wire anemometer Ref	
	Smoke tester	
Calibration Notes	All calibration records are kept at our head office	ce in both hard
	and soft copies and are available on re	quest
Customer LEV logbook completed?	Yes	
Modifications made to system?	No - Checked to drawing	
Recommendations	None	



Filter/	Air Cleaner	Filter 1	Filter 2	
Make		ETA	n/a	
Model		Unknown	n/a	
Туре		In-Line Filter	n/a	
Serial Number		00001	n/a	
Filter media type		VNF Panel	n/a	
Filter cleaning mechanism	m	Replacement	n/a	
Explosion relief vent	•0	n/a	n/a	
Pressure drop (Pa)	0	438	n/a	
Inlet static pressure (Pa)		259	n/a	
Outlet static pressure (Pa	a)	697	n/a	
Satisfactory		Yes	n/a	
Comments		None	n/a	
		Ducting		
Type/Description		Galvanised circ	cular and plastic flexible	
Recommended	0.50	Recommended	10.00	
Capture Velocity (m/s)		Duct Velocity (m/s)		
Are the ductwork/hoods condition?	etc in a satisfactory	Yes		
Damper settings		n/a		
Stack height & termination		To high level externally		
Return air fitted? Position?*		n/a		
Satisfactory		Yes		
Comments			None	

^{*} If a return air facility is in use then we advise that the frequency of testing should be at least once every 6 months



Fan(S)

Detail	Fan 1	Fan 2
Туре	Centrifugal Box Fan	n/a
Supplier	ETA	n/a
Serial number	00001	n/a
Fan speed (rpm)	not known	n/a
Drive type	DD	n/a
Fan Status	Operational	n/a
Rotation (from drive side)	Anti-Clockwise	n/a
Motor speed (rpm)	not known	n/a
Motor power (kW)	2.2	n/a
Motor voltage (V)	240	n/a
Motor full load current (A)	6	n/a
Satisfactory	Yes	n/a
Comments	None	n/a



General Summary of LEV System

Hazard to be controlled	Welding Fumes
Sources	Welding/Brazing
WEL (if known) mg/m³ 8hr TWA	Customer to advise
Is the system used correctly? (Advise where necessary)	Yes
Is the system in good condition?	Yes
Is the system clean?	Yes
Air quality testing carried out?	Yes - See additional report
Repairs undertaken during inspection?	No
Is the control adequate under regulation 7 of the C.O.S.H.H. 2002 regulations	Yes

Further comments

From the test results, the filter and fan are confirmed as suitable for intended application. The filter pressure drop across filter implies that these are still within there intended life usage.

At the recorded levels, the fan and extraction hoods are confirmed as more than suitable for intended application. Ducting Express Services opinion is that the levels of fumes caused by welding will not exceed TLV's regulated by the HSE, especially considering PPE regulations in place on site and considering that operatives are only utilising the Welding Bay for very short periods of time and therefore exposure levels are negligible.

Log book provided to conform to H&S Guidance note 258, section 9.

The LEV system has therefore provided PASS in terms of relevant COSHH regulation and is Satisfactory in its present condition at the time of testing.

Action Required:	No	
Quotation to be provided by	No	
Ducting Express Services Ltd:	140	

To be completed by the LEV owner after rectification work is completed and entered in the logbook to system (if appropriate).

ACTION TAKEN:	
WORK CARRIED OUT BY:	

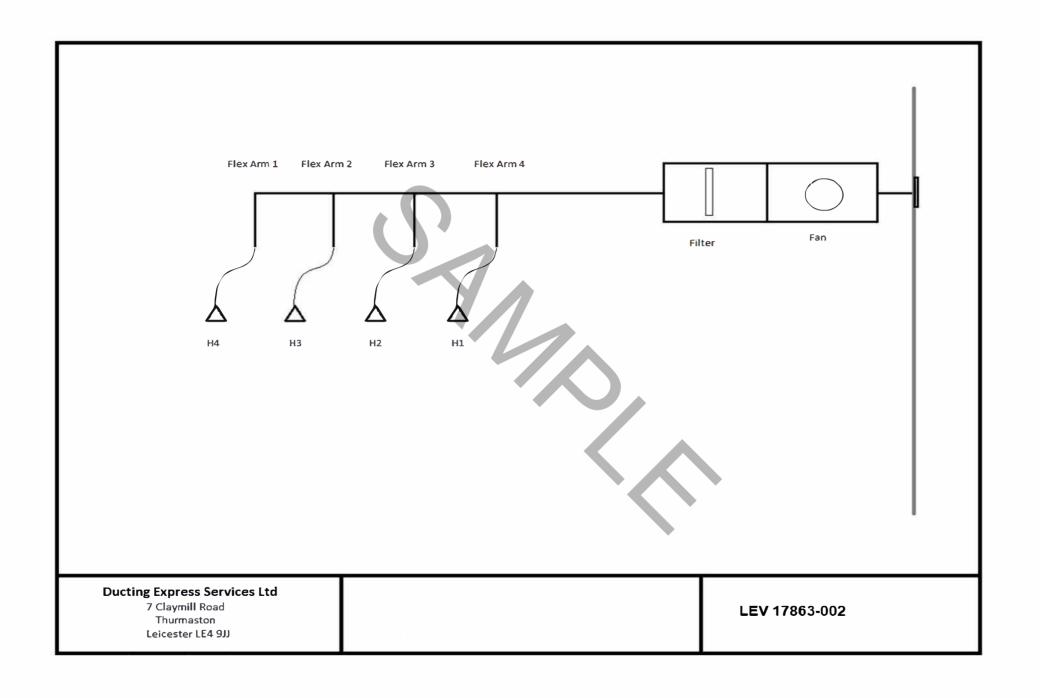


Reference Sheet

Syste	m Reference Number	ber 17863-002										
			Elliptical Hoods/Enclosures									
Test Point		Hood Type	Hood	Hood	Area	SP (Pa)	Face	Vol	Airflow	Qualitative testing	Capture	Satisfactory
no.	Reference		Width	Length	(m²)	Behind	Velocity	(m³/hr)	indicator	Method	Distance	
			(mm)	(mm)		hood	(m/s)		fitted		(mm)	
H1	Flex Arm 1	Capturing	160	220	0.028	21.00	4.10	408.06	No	Smoke test	250.00	Yes
H2	Flex Arm 2	Capturing	160	220	0.028	22.00	5.20	517.53	No	Smoke test	250.00	Yes
Н3	Flex Arm 3	Capturing	160	220	0.028	22.00	4.70	467.77	No	Smoke test	250.00	Yes
H4	Flex Arm 4	Capturing	160	220	0.028	20.00	4.30	427.96	No	Smoke test	250.00	Yes
				· ·								
										·		

Qualitative Containment Test Report

Summary:- Airflows recorded within guidelines set out in HSG 258 and to be used as a bench mark for future testing. Hoods effective to above stated distances when smoke tested, and to be used no further from process when in use in order to achieve effective control.





Test Report

LEV Reference	17863-003		
System description	Extraction of dust from metal Cutting		
Date of previous TEST	03.02.2020		
Date of latest TEST	02.03.2021		
Due date for next TEST	March 2022		
Location	XWB Cell		
Process/substance source	Metal Cutting		
Control effectiveness	SATISFACTORY		
Hazard to be controlled	Metal dust		
Operators usage	Not witnessed		
Operating conditions	Ran in test mode		
Instruments used	Manometer & pitot tube Ref		
	Smoke tester		
Calibration Notes	All calibration records are kept at our head office in both hard		
	and soft copies and are available on request		
Customer LEV logbook completed?	Yes		
Modifications made to system?	No - Checked to drawing		
Recommendations	None		



Filter/	Air Cleaner	Filter 1	Filter 2		
Make		DE	n/a		
Model		M550	n/a		
Туре		Manual shaker	n/a		
Serial Number		1702768	n/a		
Filter media type		PNF x 1x10 envelope style	n/a		
Filter cleaning mechanisi	n	Manual shaker	n/a		
Explosion relief vent	.0	Fitted	n/a		
Pressure drop (Pa)	0'4	991	n/a		
Inlet static pressure (Pa)		625	n/a		
Outlet static pressure (Pa	a)	1616	n/a		
Satisfactory		Yes	n/a		
Comments		None	n/a		
		Ducting			
Type/Description		Galvanis	sed spiral		
Recommended	2.5-10	Recommended	20.00		
Capture Velocity (m/s)		Duct Velocity (m/s)			
Are the ductwork/hoods	etc in a satisfactory	Yes			
condition?					
Damper settings		n/a			
Stack height & termination	on	n/a			
Return air fitted? Positio	n?*	Yes through filter			
Satisfactory		Yes			
Comments		No	one		

^{*} If a return air facility is in use then we advise that the frequency of testing should be at least once every 6 months



Fan(S)

Detail	Fan 1	Fan 2
Туре	Centrifugal	n/a
Supplier	DE	n/a
Serial number	n/a	n/a
Fan speed (rpm)	2860	n/a
Drive type	DD	n/a
Fan Status	Operational	n/a
Rotation (from drive side)	Anti-Clockwise	n/a
Motor speed (rpm)	2860	n/a
Motor power (kW)	1.5	n/a
Motor voltage (V)	415	n/a
Motor full load current (A)	3.14	n/a
Satisfactory	Yes	n/a
Comments	None	n/a



General Summary of LEV System

Hazard to be controlled	Metal dust
Sources	Metal Cutting
WEL (if known) mg/m³ 8hr TWA	Customer to advise
Is the system used correctly? (Advise where necessary)	Yes
Is the system in good condition?	Yes
Is the system clean?	Yes
Air quality testing carried out?	Yes - See additional report
Repairs undertaken during inspection?	No
Is the control adequate under regulation 7 of the C.O.S.H.H. 2002 regulations	Yes

Further comments

From the test results, the dust collector and fan are confirmed as suitable for intended application. The filter pressure drop across filter bag implies that these are still within there intended life usage.

Ducting Express Services opinion is that the levels of metal dust emanating from area will not exceed TLV's regulated by the HSE, especially considering PPE regulations in place on site. Extraction from the internally located fan/filter is efficient and as such operators are at no risk in terms of dust inhalation.

Log book provided to conform to H&S Guidance note 258, section 9.

The LEV system has therefore provided PASS in terms of relevant COSHH regulation and is Satisfactory in its present condition at the time of testing.

Action Required:	No
Quotation to be provided by	No
Ducting Express Services Ltd:	INO

To be completed by the LEV owner after rectification work is completed and entered in the logbook to system (if appropriate).

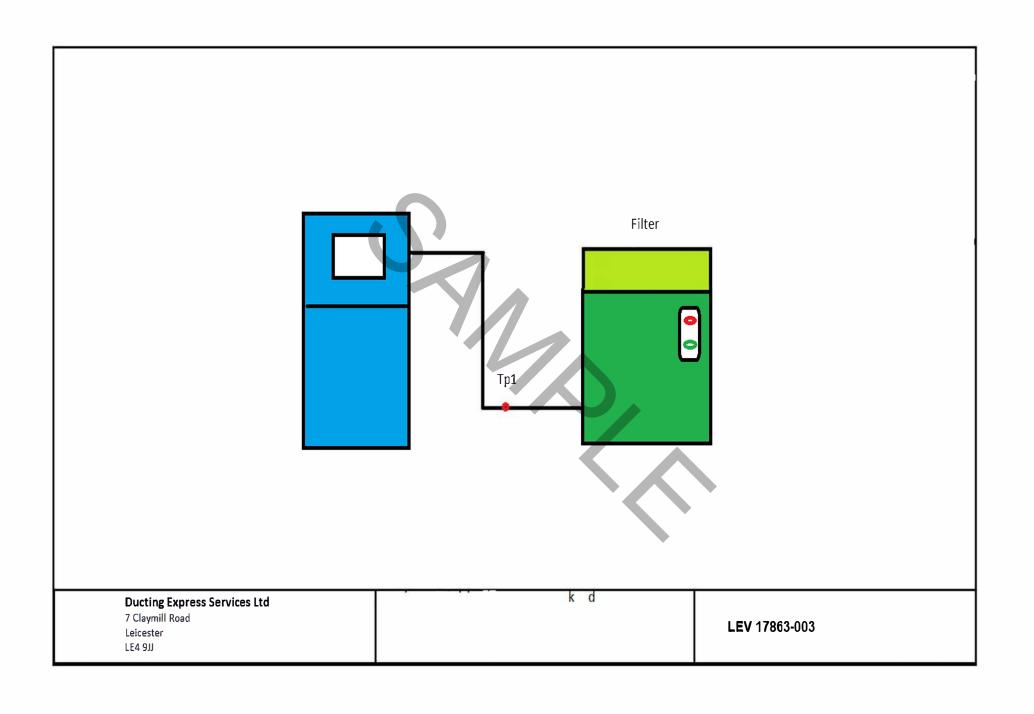
ACTION TAKEN:	
WORK CARRIED OUT BY:	



Reference Sheet

Syste	em Reference Number		17863-003					
			Circular Ducting					
Test Point no.	Reference	Duct dia (mm)	Area (m²)	SP (Pa)	VP (Pa)	Conv. Vel (m/s)	Vol (m³/hr)	Satisfactory
1	Filter inlet	125	0.012	272.00	247	20.27	895.68	Yes
						1		

Summary:- Airflows recorded within guidelines set out in HSG 258 and to be used as a bench mark for future testing.





Test Report

LEV Reference	17863-004	
System description	Extraction of dust from metal Working	
Date of previous TEST	03.02.2020	
Date of latest TEST	02.03.2021	
Due date for next TEST	March 2022	
Location	Wrapping and flattening cell	
Process/substance source	Metal Working	
Control effectiveness	SATISFACTORY	
Hazard to be controlled	Metal dust	
Operators usage	Not witnessed	
Operating conditions	Ran in test mode	
Instruments used	Manometer & pitot tube Ref	
	Smoke tester	
Calibration Notes	All calibration records are kept at our head office in both hard	
	and soft copies and are available on request	
Customer LEV logbook completed?	Yes	
Modifications made to system?	Yes - identified	
Recommendations	None	



Filter/	Air Cleaner	Filter 1	Filter 2
Make		DE	n/a
Model		M550	n/a
Туре		Manual shaker	n/a
Serial Number		1702769	n/a
Filter media type		PNF x 1x10 envelope style	n/a
Filter cleaning mechanisi	n	Manual shaker	n/a
Explosion relief vent	• 0	Fitted	n/a
Pressure drop (Pa)	0/2	191	n/a
Inlet static pressure (Pa)		425	n/a
Outlet static pressure (Pa	a)	616	n/a
Satisfactory		Yes	n/a
Comments		None	n/a
		Ducting	
Type/Description		Galvanis	sed spiral
Recommended	2.5-10	Recommended	20.00
Capture Velocity (m/s)		Duct Velocity (m/s)	
Are the ductwork/hoods	etc in a satisfactory	Yes	
condition?			
Damper settings		n/a	
Stack height & termination	on	n/a	
Return air fitted? Positio	n?*	Yes through filter	
Satisfactory		Yes	
Comments		No	one

^{*} If a return air facility is in use then we advise that the frequency of testing should be at least once every 6 months



Fan(S)

Detail	Fan 1	Fan 2
Туре	Centrifugal	n/a
Supplier	DE	n/a
Serial number	n/a	n/a
Fan speed (rpm)	2860	n/a
Drive type	DD	n/a
Fan Status	Operational	n/a
Rotation (from drive side)	Anti-Clockwise	n/a
Motor speed (rpm)	2860	n/a
Motor power (kW)	1.5	n/a
Motor voltage (V)	415	n/a
Motor full load current (A)	3.14	n/a
Satisfactory	Yes	n/a
Comments	None	n/a



General Summary of LEV System

Hazard to be controlled	Metal dust
Sources	Metal Working
WEL (if known) mg/m³ 8hr TWA	Customer to advise
Is the system used correctly? (Advise where necessary)	Yes
Is the system in good condition?	Yes
Is the system clean?	Yes
Air quality testing carried out?	Yes - See additional report
Repairs undertaken during inspection?	No
Is the control adequate under regulation 7 of the C.O.S.H.H. 2002 regulations	Yes

Further comments

From the test results, the dust collector and fan are confirmed as suitable for intended application. The filter pressure drop across filter bag implies that these are still within there intended life usage.

Ducting Express Services opinion is that the levels of metal dust emanating from area will not exceed TLV's regulated by the HSE, especially considering PPE regulations in place on site. Extraction from the internally located fan/filter is efficient and as such operators are at no risk in terms of dust inhalation.

Log book provided to conform to H&S Guidance note 258, section 9.

The LEV system has therefore provided PASS in terms of relevant COSHH regulation and is Satisfactory in its present condition at the time of testing.

Action Required:	No
Quotation to be provided by	No
Ducting Express Services Ltd:	NO

To be completed by the LEV owner after rectification work is completed and entered in the logbook to system (if appropriate).

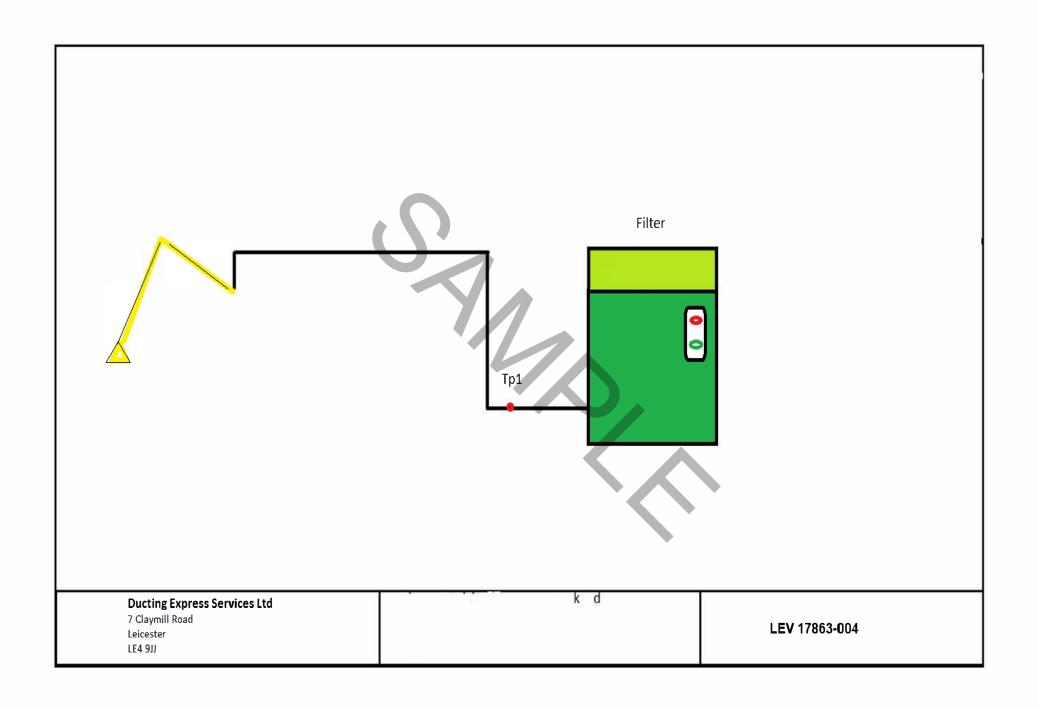
ACTION TAKEN:	
WORK CARRIED OUT BY:	



Reference Sheet

Satisfactory
Yes

Summary:- Airflows recorded within guidelines set out in HSG 258 and to be used as a bench mark for future testing.





Test Report

LEV Reference	17197-005	
System description	Portable Fume Extraction System	
Date of previous TEST	03.01.2020	
Date of latest TEST	04.03.2021	
Due date for next TEST	March 2022	
Location	Foil forming cell	
Process/substance source	tig Welding	
Control effectiveness	SATISFACTORY	
Hazard to be controlled	Weld Fumes	
Operators usage	Not witnessed	
Operating conditions	Ran in test mode	
Instruments used	Smoke tester AS	
	Hot wire anemometer AS Ref 1	
Calibration Notes	All calibration records are kept at our head office in both hard	
	and soft copies and are available on request	
Customer LEV logbook completed?	Yes	
Modifications made to system?	No - Checked to drawing	
Recommendations	None	



ir Cleaner	Filter 1	Filter 2
	Weldability	n/a
	Protectoxtract	n/a
	Portable Unit	n/a
	A16037510031022	n/a
	3 Tier Cartridge	n/a
n	Replacement	n/a
40	n/a	n/a
0	n/a	n/a
	n/a	n/a
	n/a	n/a
	Yes	n/a
	None	n/a
	Ducting	l
	No. 13 PM	Whi Co. Lo
	Plastic Fie.	xible Circular
0.50	Recommended	10.00
	Duct Velocity (m/s)	
etc in a satisfactory	•	Yes
	n/a	
n	To filter outlet	
1?*	Yes filtered	
	Yes	
	N	lone
	0.50 etc in a satisfactory	Weldability Protectoxtract Portable Unit A16037510031022 3 Tier Cartridge Replacement n/a n/a n/a n/a yes None Ducting Plastic Fle 0.50 Recommended Duct Velocity (m/s) etc in a satisfactory To filt

^{*} If a return air facility is in use then we advise that the frequency of testing should be at least once every 6 months



Fan(S)

Detail	Fan 1	Fan 2
Туре	Centrifugal	n/a
Supplier	Weldability	n/a
Serial number	Unknown	n/a
Fan speed (rpm)	Unknown	n/a
Drive type	Direct Drive	n/a
Fan Status	Operational	n/a
Rotation (from drive side)	Clockwise	n/a
Motor speed (rpm)	Unknown	n/a
Motor power (kW)	1.1	n/a
Motor voltage (V)	240	n/a
Motor full load current (A)	7	n/a
Satisfactory	Yes	n/a
Comments	None	n/a



General Summary of LEV System

Hazard to be controlled	Weld Fumes
Sources	tig Welding
WEL (if known) mg/m³ 8hr TWA	MSDS on site for reference
Is the system used correctly? (Advise where necessary)	Yes
Is the system in good condition?	Yes
Is the system clean?	Yes
Air quality testing carried out?	No - not required
Repairs undertaken during inspection?	No
Is the control adequate under regulation 7 of the C,O.S.H.H. 2002 regulations	Yes

Further comments

From the test results, the portable extract unit is confirmed as suitable for intended application.

Ducting Express Services opinion is that the levels of welding fumes emanating from area will not exceed TLV's regulated by the HSE, especially considering PPE regulations in place on site. Extraction from the internally located fan/filter is efficient and as such operators are at no risk in terms of fume inhalation. Therefore no Environmental Air Monitoring is required in our opinion for confirmation of compliance with regulatory workplace exposure limits.

Log book provided to conform to H&S Guidance note 258, section 9.

The LEV system has therefore provided PASS in terms of relevant COSHH regulation and is Satisfactory in its present condition at the time of testing.

Action Required:	No
Quotation to be provided by	No
Ducting Express Services Ltd:	NO

To be completed by the LEV owner after rectification work is completed and entered in the logbook to system (if appropriate).

ACTION TAKEN:	
WORK CARRIED OUT BY:	

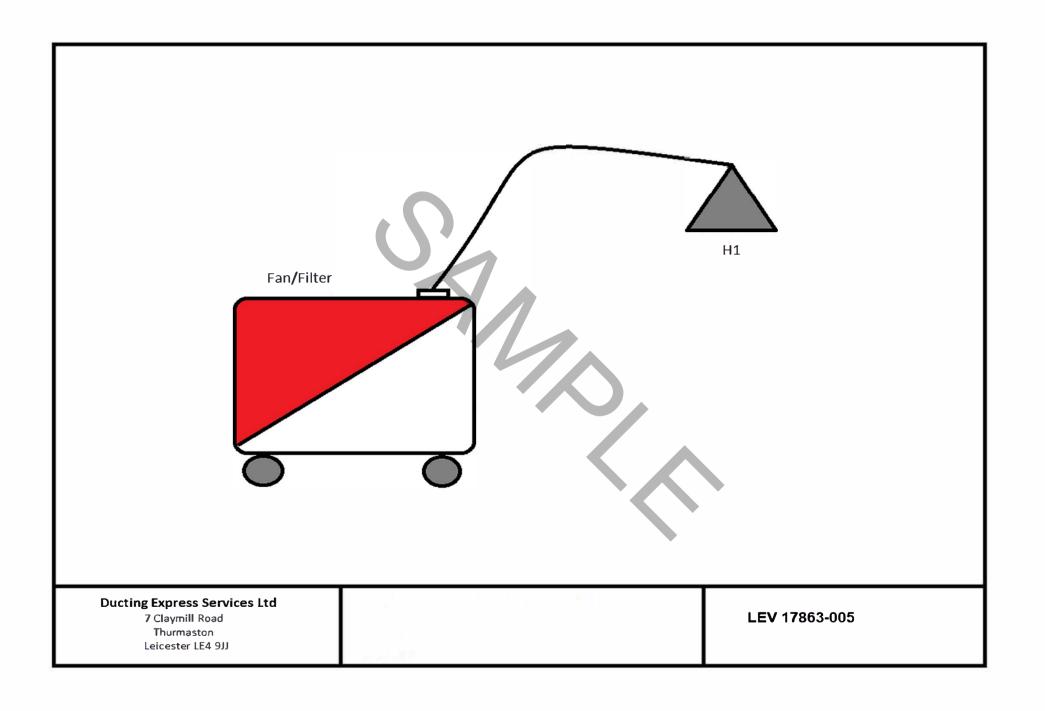


Reference Sheet

System Reference Number			17863-005									
		Elliptical Hoods/Enclosures										
Test Point no.	Reference	Hood Type	Hood Width (mm)	Hood Length (mm)	Area (m²)	SP (Pa) Behind hood	Face Velocity (m/s)	Vol (m³/hr)	Airflow indicator fitted	Qualitative testing Method	Capture Distance (mm)	Satisfactory
H1	Unit Hood	Capturing	250	260	0.051	n/a	9.20	1690.81	No	Smoke test	300.00	Yes

Qualitative Containment Test Report

Summary:- Airflows recorded within guidelines set out in HSG 258 and to be used as a bench mark for future testing. Hoods effective to above stated distances when smoke tested, and to be used no further from process when in use in order to achieve effective control.





Test Report

LEV Reference	17197-006		
System description	Extraction of oil mist from cutting process		
Date of previous TEST	03.02.2020		
Date of latest TEST	04.03.2021		
Due date for next TEST	March 2022		
Location	Safran Cell		
Process/substance source	Metal cutting		
Control effectiveness	SATISFACTORY		
Hazard to be controlled	Oil mist		
Operators usage	Not witnessed		
Operating conditions	Ran in test mode		
Instruments used	Hot wire anemometer AS Ref 1		
	Smoke tester AS		
Calibration Notes	All calibration records are kept at our head office in both hard		
	and soft copies and are available on request		
Customer LEV logbook completed?	Yes		
Modifications made to system?	No - Checked to drawing		
Recommendations	None		



Filter/Air Cleaner	Filter 1	Filter 2		
Make	Nederman	n/a		
Model	NOM 4	n/a		
Туре	НЕРА	n/a		
Serial Number	701510	n/a		
Filter media type	Нера	n/a		
Filter cleaning mechanism	Replacement	n/a		
Explosion relief vent	n/a	n/a		
Pressure drop (Pa)	n/a	n/a		
Inlet static pressure (Pa)	n/a	n/a		
Outlet static pressure (Pa)	n/a	n/a		
Satisfactory	Yes	n/a		
Comments	None	n/a		
	Ducting			
Type/Description	Plastic flexible			
Recommended 0.50	Recommended	10.00		
Capture Velocity (m/s)	Duct Velocity (m/s)			
Are the ductwork/hoods etc in a satisfactory condition?	Yes			
Damper settings	n/a			
Stack height & termination	At filter			
Return air fitted? Position?*	Yes through filter			
Satisfactory	Yes			
Comments	None			

^{*} If a return air facility is in use then we advise that the frequency of testing should be at least once every 6 months



Fan(S)

Detail	Fan 1	Fan 2
Туре	Centrifugal	n/a
Supplier	Nederman	n/a
Serial number	701510	n/a
Fan speed (rpm)	Unknown	n/a
Drive type	DD	n/a
Fan Status	Operational	n/a
Rotation (from drive side)	Clockwise	n/a
Motor speed (rpm)	Unknown	n/a
Motor power (kW)	0.37	n/a
Motor voltage (V)	240	n/a
Motor full load current (A)	Unknown	n/a
Satisfactory	Yes	n/a
Comments	None	n/a



Hazard to be controlled	Oil mist
Sources	Metal cutting
WEL (if known) mg/m³ 8hr TWA	MSDS on site for reference
Is the system used correctly? (Advise where necessary)	Yes
Is the system in good condition?	Yes
Is the system clean?	Yes
Air quality testing carried out?	Yes - See additional report
Repairs undertaken during inspection?	No
Is the control adequate under regulation 7 of the C.O.S.H.H. 2002 regulations	Yes

Further comments

From the test results, the filter and fan are confirmed as suitable for intended application.

Ducting Express Services opinion is that the levels of oil mist emanating from area will not exceed TLV's regulated by the HSE, especially considering PPE regulations in place on site. Extraction from the internally located fan/filter is efficient and as such operators are at no risk in terms of oil mist inhalation.

Log book provided to conform to H&S Guidance note 258, section 9.

The LEV system has therefore provided PASS in terms of relevant COSHH regulation and is Satisfactory in its present condition at the time of testing.

Action Required:	No
Quotation to be provided by	No
Ducting Express Services Ltd:	INO

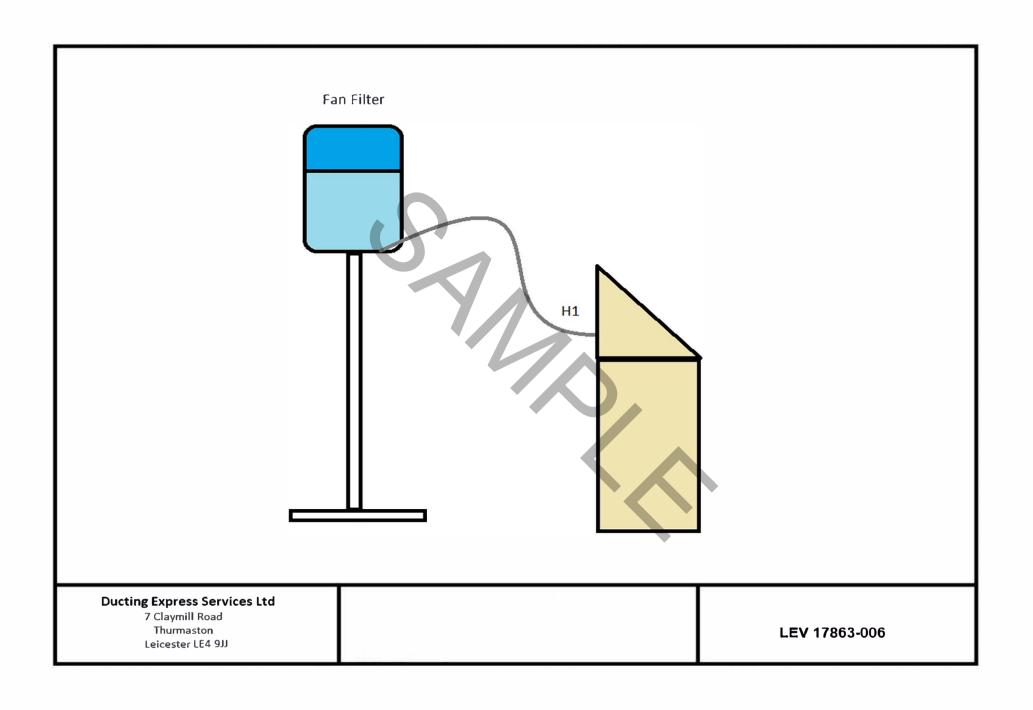
ACTION TAKEN:	
WORK CARRIED OUT BY:	



Syste	m Reference Number	17863-006									
		Circular Hoods/Enclosures									
Test Point no.	Reference	Hood Type	Hood dia (mm)	Area (m²)	SP (Pa) Behind hood	Face Velocity (m/s)	Vol (m³/hr)	Airflow indicator fitted	Qualitative testing Method	Capture Distance (mm)	Satisfactory
1H	Hood to MC2	Capturing	125	0.012	n/a	5.60	247.40	No	Smoke test	300.00	Yes

Qualitative Containment Test Report

Summary:- Airflows recorded within guidelines set out in HSG 258 and to be used as a bench mark for future testing. Hoods effective to above stated distances when smoke tested, and to be used no further from process when in use in order to achieve effective control.





Test Report

LEV Reference	17197-007		
System description	Extraction of oil mist from cutting process		
Date of previous TEST	03.02.2020		
Date of latest TEST	04.03.2021		
Due date for next TEST	March 2022		
Location	Safran Cell		
Process/substance source	Metal cutting		
Control effectiveness	SATISFACTORY		
Hazard to be controlled	Oil mist		
Operators usage	Not witnessed		
Operating conditions	Ran in test mode		
Instruments used	Hot wire anemometer AS Ref 1		
	Smoke tester AS		
Calibration Notes	All calibration records are kept at our head office in both hard		
	and soft copies and are available on request		
Customer LEV logbook completed?	Yes		
Modifications made to system?	No - Checked to drawing		
Recommendations	None		



Filter/A	ir Cleaner	Filter 1	Filter 2			
Make		Nederman	n/a			
Model		NOM 4	n/a			
Туре		НЕРА	n/a			
Serial Number		18114-00 12610468	n/a			
Filter media type		Нера	n/a			
Filter cleaning mechanism	1	Replacement	n/a			
Explosion relief vent	•0	n/a	n/a			
Pressure drop (Pa)	0'4	n/a	n/a			
Inlet static pressure (Pa)		n/a	n/a			
Outlet static pressure (Pa		n/a	n/a			
Satisfactory		Yes	n/a			
Comments		None	n/a			
		Ducting				
Type/Description		Plastic	flexible			
Recommended	0.50	Recommended	10.00			
Capture Velocity (m/s)		Duct Velocity (m/s)				
Are the ductwork/hoods	etc in a satisfactory	Yes				
condition?	·					
Damper settings		n/a				
Stack height & termination		At filter				
Return air fitted? Position	?*	Yes through filter				
Satisfactory		Yes				
Comments		No	ne			

^{*} If a return air facility is in use then we advise that the frequency of testing should be at least once every 6 months



Fan(S)

Detail	Fan 1	Fan 2
Туре	Centrifugal	n/a
Supplier	Nederman	n/a
Serial number	701510	n/a
Fan speed (rpm)	Unknown	n/a
Drive type	DD	n/a
Fan Status	Operational	n/a
Rotation (from drive side)	Unknown	n/a
Motor speed (rpm)	Unknown	n/a
Motor power (kW)	0.37	n/a
Motor voltage (V)	240	n/a
Motor full load current (A)	Unknown	n/a
Satisfactory	Yes	n/a
Comments	None	n/a



Hazard to be controlled	Oil mist
Sources	Metal cutting
WEL (if known) mg/m³ 8hr TWA	MSDS on site for reference
Is the system used correctly? (Advise where necessary)	Yes
Is the system in good condition?	Yes
Is the system clean?	Yes
Air quality testing carried out?	Yes - See additional report
Repairs undertaken during inspection?	No
Is the control adequate under regulation 7 of the C.O.S.H.H. 2002 regulations	Yes

Further comments

From the test results, the filter and fan are confirmed as suitable for intended application.

Ducting Express Services opinion is that the levels of oil mist emanating from area will not exceed TLV's regulated by the HSE, especially considering PPE regulations in place on site. Extraction from the internally located fan/filter is efficient and as such operators are at no risk in terms of oil mist inhalation.

Log book provided to conform to H&S Guidance note 258, section 9.

The LEV system has therefore provided PASS in terms of relevant COSHH regulation and is Satisfactory in its present condition at the time of testing.

Action Required:	No
Quotation to be provided by	No
Ducting Express Services Ltd:	INO

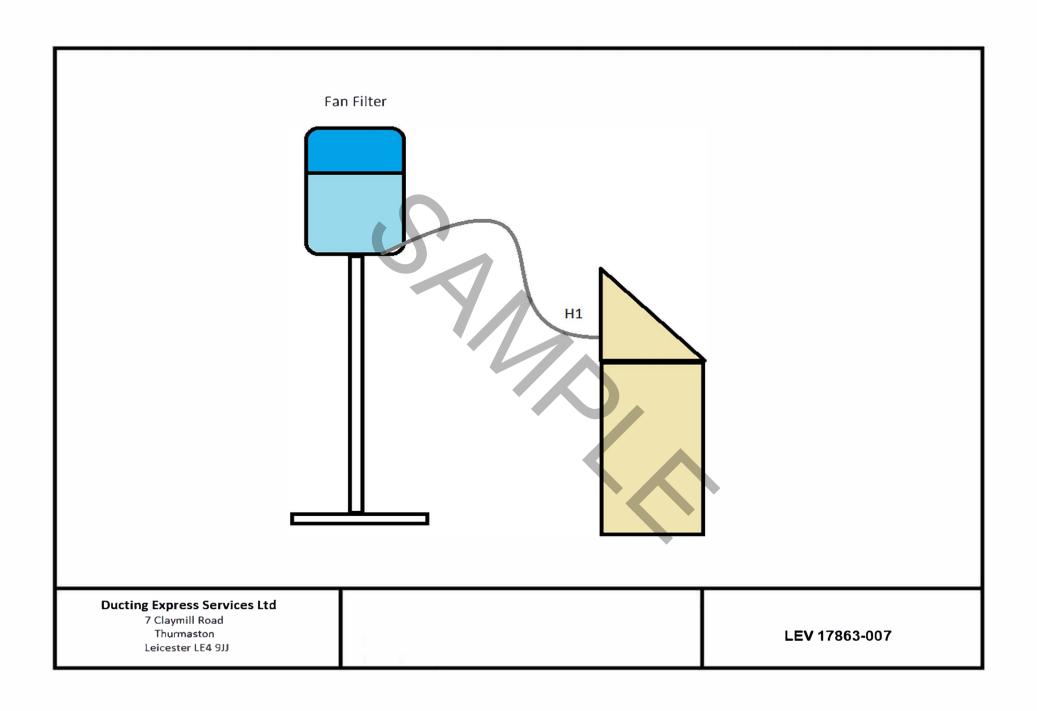
ACTION TAKEN:	
WORK CARRIED OUT BY:	



Syste	m Reference Number	17863-007									
		Circular Hoods/Enclosures									
Test Point no.	Reference	Hood Type	Hood dia (mm)	Area (m²)	SP (Pa) Behind hood	Face Velocity (m/s)	Vol (m³/hr)	Airflow indicator fitted	Qualitative testing Method	Capture Distance (mm)	Satisfactory
1H	Hood to J & S Grinder	Capturing	125	0.012	n/a	4.80	212.06	No	Smoke test	300.00	Yes

Qualitative Containment Test Report

Summary:- Airflows recorded within guidelines set out in HSG 258 and to be used as a bench mark for future testing. Hoods effective to above stated distances when smoke tested, and to be used no further from process when in use in order to achieve effective control.





Test Report

LEV Reference	17863-008		
System description	Portable Fume Extraction System		
Date of previous TEST	03.02.2020		
Date of latest TEST	04.03.2021		
Due date for next TEST	March 2022		
Location	Weld Area/safran		
Process/substance source	Pipe Welding		
Control effectiveness	SATISFACTORY		
Hazard to be controlled	Weld Fumes		
Operators usage	Acceptable		
Operating conditions	Operational		
Instruments used	Smoke tester AS		
	Hot wire anemometer AS Ref 1		
Calibration Notes	All calibration records are kept at our head office in both hard		
	and soft copies and are available on request		
Customer LEV logbook completed?	Yes		
Modifications made to system?	No - Checked to drawing		
Recommendations	None		



aner	Weldability	n/a		
	Protectoxtract	n/a		
	Portable Unit	n/a		
	A16037510031017	n/a		
	3 Tier Cartridge	n/a		
	Replacement	n/a		
	n/a	n/a		
	n/a	n/a		
	n/a	n/a		
Outlet static pressure (Pa)		n/a		
Satisfactory		n/a		
Comments		n/a		
	Ducting	<u> </u>		
	Metal Spiral and	Plastic Flexible Arms		
0.50	Recommended	10.00		
	Duct Velocity (m/s)	¥		
Capture Velocity (m/s) Are the ductwork/hoods etc in a satisfactory		Yes		
	n/a			
	To filter outlet			
	Yes filtered			
	Yes			
	None			
		A16037510031017 3 Tier Cartridge Replacement n/a n/a n/a n/a Yes None Ducting Metal Spiral and 0.50 Recommended Duct Velocity (m/s) a satisfactory To filt		

^{*} If a return air facility is in use then we advise that the frequency of testing should be at least once every 6 months



Fan(S)

Detail	Fan 1	Fan 2
Туре	Centrifugal	n/a
Supplier	Weldability	n/a
Serial number	Unknown	n/a
Fan speed (rpm)	Unknown	n/a
Drive type	Direct Drive	n/a
Fan Status	Operational	n/a
Rotation (from drive side)	Clockwise	n/a
Motor speed (rpm)	Unknown	n/a
Motor power (kW)	1.1	n/a
Motor voltage (V)	230	n/a
Motor full load current (A)	7	n/a
Satisfactory	Yes	n/a
Comments	None	n/a



Hazard to be controlled	Weld Fumes
Sources	Pipe Welding
WEL (if known) mg/m³ 8hr TWA	MSDS on site for reference
Is the system used correctly? (Advise where necessary)	Yes
Is the system in good condition?	Yes
Is the system clean?	Yes
Air quality testing carried out?	No - not required
Repairs undertaken during inspection?	No
Is the control adequate under regulation 7 of the C,O.S.H.H. 2002 regulations	Yes

Further comments

From the test results, the portable extract unit is confirmed as suitable for intended application.

Ducting Express Services opinion is that the levels of process fumes emanating from area will not exceed TLV's regulated by the HSE, especially considering PPE regulations in place on site. Extraction from the internally located fan/filter is efficient and as such operators are at no risk in terms of fume inhalation. Therefore no Environmental Air Monitoring is required in our opinion for confirmation of compliance with regulatory workplace exposure limits.

Log book provided to conform to H&S Guidance note 258, section 9.

The LEV system has therefore provided PASS in terms of relevant COSHH regulation and is Satisfactory in its present condition at the time of testing.

Action Required:	No
Quotation to be provided by	No
Ducting Express Services Ltd:	NO

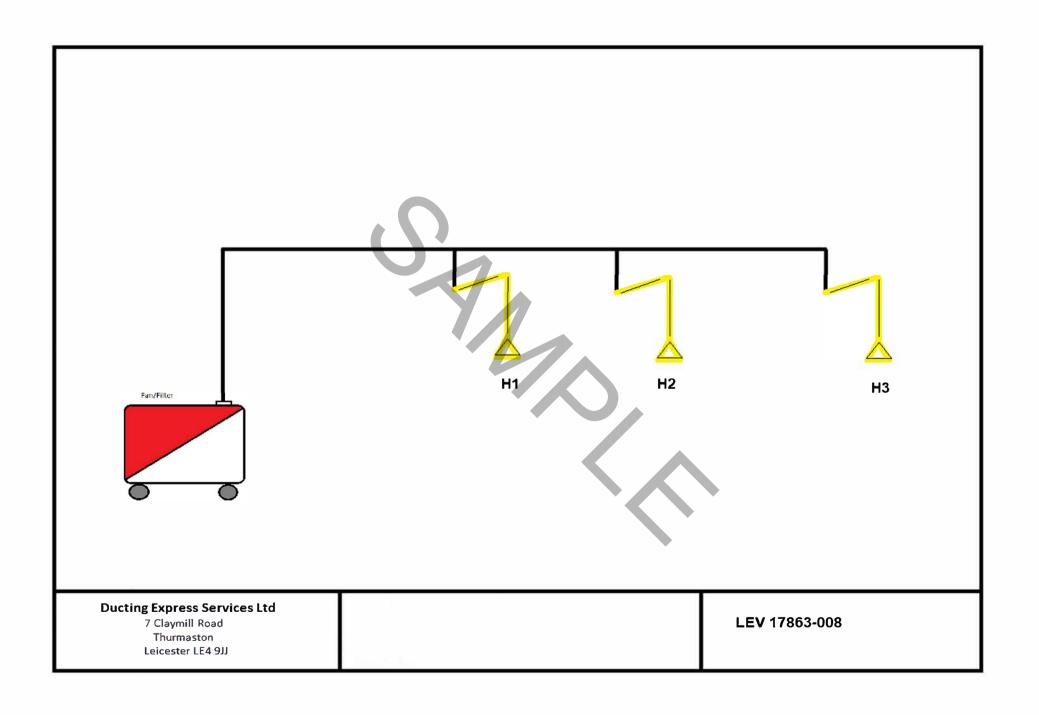
ACTION TAKEN:	
WORK CARRIED OUT BY:	



Syster	m Reference Number		17863-008								
					Circula	r Hoods/E	nclosures				
Test Point no.	Reference	Hood Type	Hood dia (mm)	Area (m²)	SP (Pa) Behind hood	Face Velocity (m/s)	Vol (m³/hr)	Airflow indicator fitted	Qualitative testing Method	Capture Distance (mm)	Satisfactory
1H	Hood 1	Capturing	225	0.040	n/a	3.50	500.99	No	Smoke test	250.00	Yes
2H	Hood 2	Capturing	226	0.040	n/a	3.50	505.45	No	Smoke test	250.00	Yes
3H	Hood 3	Capturing	227	0.040	n/a	3.50	509.93	No	Smoke test	250.00	Yes

Qualitative Containment Test Report

Summary:- Airflows recorded within guidelines set out in HSG 258 and to be used as a bench mark for future testing. Hoods effective to above stated distances when smoke tested, and to be used no further from process when in use in order to achieve effective control. System tested with all dampers opened to hoods





Test Report

LEV Reference	17197-009		
System description	Portable Fume Extraction System		
Date of previous TEST	03.02.2020		
Date of latest TEST	04.03.2021		
Due date for next TEST	March 2022		
Location	Compipe		
Process/substance source	Testing Rig		
Control effectiveness	SATISFACTORY		
Hazard to be controlled	Carbon/Plastic Fumes		
Operators usage	No operator interaction		
Operating conditions	Operational		
Instruments used	Smoke tester AS		
	Hot wire anemometer AS Ref 1		
Calibration Notes	All calibration records are kept at our head office in both hard		
Customer LEV legheek sompleted?	and soft copies and are available on request Yes		
Customer LEV logbook completed?	res		
Modifications made to system?	No - Checked to drawing		
Recommendations	None		



Filter 1 Weldability Protectoxtract Portable Unit	n/a n/a
Portable Unit	n/2
	li/a
A16037510031018	n/a
3 Tier Cartridge	n/a
Replacement	n/a
n/a	n/a
Yes	n/a
None	n/a
Ducting	
Plastic Flexil	ole Circular
.50 Recommended	10.00
Duct Velocity (m/s)	
n/	a
To filter	outlet
Yes fil	tered
Ye	
No	ne
	3 Tier Cartridge Replacement n/a n/a n/a n/a Yes None Ducting Plastic Flexil

^{*} If a return air facility is in use then we advise that the frequency of testing should be at least once every 6 months



Fan(S)

Detail	Fan 1	Fan 2
Туре	Centrifugal	n/a
Supplier	Weldability	n/a
Serial number	Unknown	n/a
Fan speed (rpm)	Unknown	n/a
Drive type	Direct Drive	n/a
Fan Status	Operational	n/a
Rotation (from drive side)	Clockwise	n/a
Motor speed (rpm)	Unknown	n/a
Motor power (kW)	1.1	n/a
Motor voltage (V)	230	n/a
Motor full load current (A)	7	n/a
Satisfactory	Yes	n/a
Comments	None	n/a



Hazard to be controlled	Carbon/Plastic Fumes
Sources	Testing Rig
WEL (if known) mg/m³ 8hr TWA	MSDS on site for reference
Is the system used correctly? (Advise where necessary)	Yes
Is the system in good condition?	Yes
Is the system clean?	Yes
Air quality testing carried out?	No - not required
Repairs undertaken during inspection?	No
Is the control adequate under regulation 7 of the C.O.S.H.H. 2002 regulations	Yes

Further comments

From the test results, the portable extract unit is confirmed as suitable for intended application.

Ducting Express Services opinion is that the levels of process fumes emanating from area will not exceed TLV's regulated by the HSE, especially considering PPE regulations in place on site. Extraction from the internally located fan/filter is efficient and as such operators are at no risk in terms of fume inhalation. Therefore no Environmental Air Monitoring is required in our opinion for confirmation of compliance with regulatory workplace exposure limits.

Log book provided to conform to H&S Guidance note 258, section 9.

The LEV system has therefore provided PASS in terms of relevant COSHH regulation and is Satisfactory in its present condition at the time of testing.

Action Required:	No
Quotation to be provided by	No
Ducting Express Services Ltd:	NO

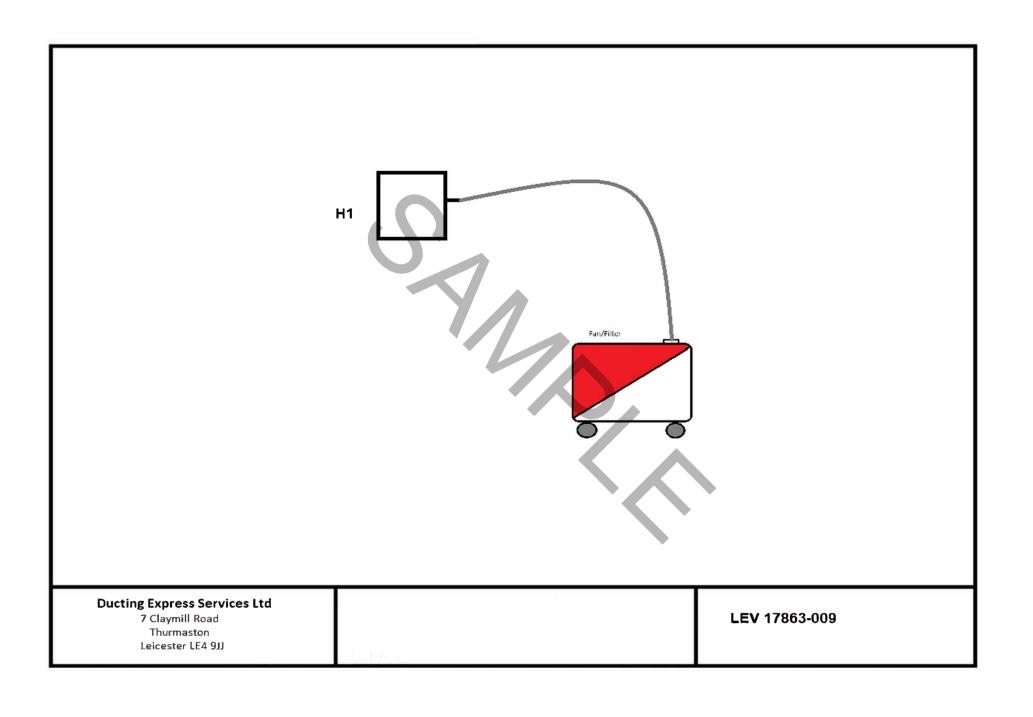
ACTION TAKEN:	
WORK CARRIED OUT BY:	



Reference Number						1	7863-009				
		Elliptical Hoods/Enclosures									
Reference	Hood Type	Hood Width (mm)	Hood Length (mm)	Area (m²)	SP (Pa) Behind hood	Face Velocity (m/s)	Vol (m³/hr)	Airflow indicator fitted	Qualitative testing Method	Capture Distance (mm)	Satisfactory
Unit Hood	Capturing	400	200	0.063	n/a	3.10	701.20	No	Smoke test	400.00	Yes
							_				
		Reference Hood Type	Reference Hood Type Hood Width (mm)	Reference Hood Type Hood Hood Length (mm) (mm)	Reference Hood Type Width (mm) Unit Hood Capturing Hood Hood Length (mm) Capturing 400 200 0.063	Reference Hood Type Hood Hood Length (mm) Hood Unit Hood Capturing Hood Width (mm) Capturing Hood Hood Length (mm) Hood Hood Hood Hood Hood Hood Hood Hoo	Reference Hood Type Hood Width (mm) Hood Length (mm) Hood Hood Hood Hood Hood Hood Hood Hoo	Reference Hood Type Hood Width (mm) Unit Hood Capturing Hood Capturing Hood Width (mm) Hood Hood Length (mm) Hood Hood Hood Length (m²) Hood Hood Hood Hood Hood Hood Hood Hoo	Reference Hood Type Hood Width Length (mm) (mm) Reference Unit Hood Capturing 400 200 0.063 n/a 3.10 701.20 No	Reference Hood Type Hood Width (mm) Hood Length (mm) Hood (mm) Ho	Reference Hood Type Hood Width (mm) Hood (mm) Hood (mm) Hood (m²) Hood (m²) Hood (m²) Hood (m/s) Hood (m/s) Hood (m/s) Hood (m²) Hood (

Qualitative Containment Test Report

Summary:- Airflows recorded within guidelines set out in HSG 258 and to be used as a bench mark for future testing. Hoods effective to above stated distances when smoke tested, and to be used no further from process when in use in order to achieve effective control.





Test Report

LEV Reference		17197-010	
System description	Portable Fume Extraction System		
Date of previous TEST		03.02.2020	
Date of latest TEST		04.03.2021	
Due date for next TEST	March 2022		
Location		Compipe	
Process/substance source	Testing Rig		
Control effectiveness	SATISFACTORY		
Hazard to be controlled	Carbon/Plastic Fumes		
Operators usage	No operator interaction		
Operating conditions	Operational		
Instruments used		Smoke tester AS	
		Hot wire anemometer AS Ref 1	
Calibration Notes	All calibration	records are kept at our head office in both hard	
	and soft copies and are available on request		
Customer LEV logbook completed?	Yes		
Modifications made to system?		No - Checked to drawing	
Recommendations		None	



Filter/A	ir Cleaner	Filter 1	Filter 2	
Make	1ake		n/a	
Model		Protectoxtract	n/a	
Туре		Portable Unit	n/a	
Serial Number		A16037510031021	n/a	
Filter media type		3 Tier Cartridge	n/a	
Filter cleaning mechanisn	1	Replacement	n/a	
Explosion relief vent	•0	n/a	n/a	
Pressure drop (Pa)	0'~	n/a	n/a	
Inlet static pressure (Pa)		n/a	n/a	
Outlet static pressure (Pa		n/a	n/a	
Satisfactory		Yes	n/a	
Comments		None	n/a	
		Ducting		
Type/Description		Plastic Flex	rible Circular	
Recommended	0.50	Recommended	10.00	
Capture Velocity (m/s)		Duct Velocity (m/s)	¥ L	
Are the ductwork/hoods	etc in a satisfactory	Yes		
condition?				
Damper settings		n/a		
Stack height & termination		To filter outlet		
Return air fitted? Position?*		Yes filtered		
Satisfactory		Yes		
Comments		None		

^{*} If a return air facility is in use then we advise that the frequency of testing should be at least once every 6 months



Fan(S)

Detail	Fan 1	Fan 2
Туре	Centrifugal	n/a
Supplier	Weldability	n/a
Serial number	Unknown	n/a
Fan speed (rpm)	Unknown	n/a
Drive type	Direct Drive	n/a
Fan Status	Operational	n/a
Rotation (from drive side)	Clockwise	n/a
Motor speed (rpm)	Unknown	n/a
Motor power (kW)	1.1	n/a
Motor voltage (V)	230	n/a
Motor full load current (A)	7	n/a
Satisfactory	Yes	n/a
Comments	None	n/a



Hazard to be controlled	Carbon/Plastic Fumes
Sources	Testing Rig
WEL (if known) mg/m³ 8hr TWA	MSDS on site for reference
Is the system used correctly? (Advise where necessary)	Yes
Is the system in good condition?	Yes
Is the system clean?	Yes
Air quality testing carried out?	No - not required
Repairs undertaken during inspection?	No
Is the control adequate under regulation 7 of the C.O.S.H.H. 2002 regulations	Yes

Further comments

From the test results, the portable extract unit is confirmed as suitable for intended application.

Ducting Express Services opinion is that the levels of process fumes emanating from area will not exceed TLV's regulated by the HSE, especially considering PPE regulations in place on site. Extraction from the internally located fan/filter is efficient and as such operators are at no risk in terms of fume inhalation. Therefore no Environmental Air Monitoring is required in our opinion for confirmation of compliance with regulatory workplace exposure limits.

Log book provided to conform to H&S Guidance note 258, section 9.

The LEV system has therefore provided PASS in terms of relevant COSHH regulation and is Satisfactory in its present condition at the time of testing.

Action Required:	No
Quotation to be provided by	No
Ducting Express Services Ltd:	NO

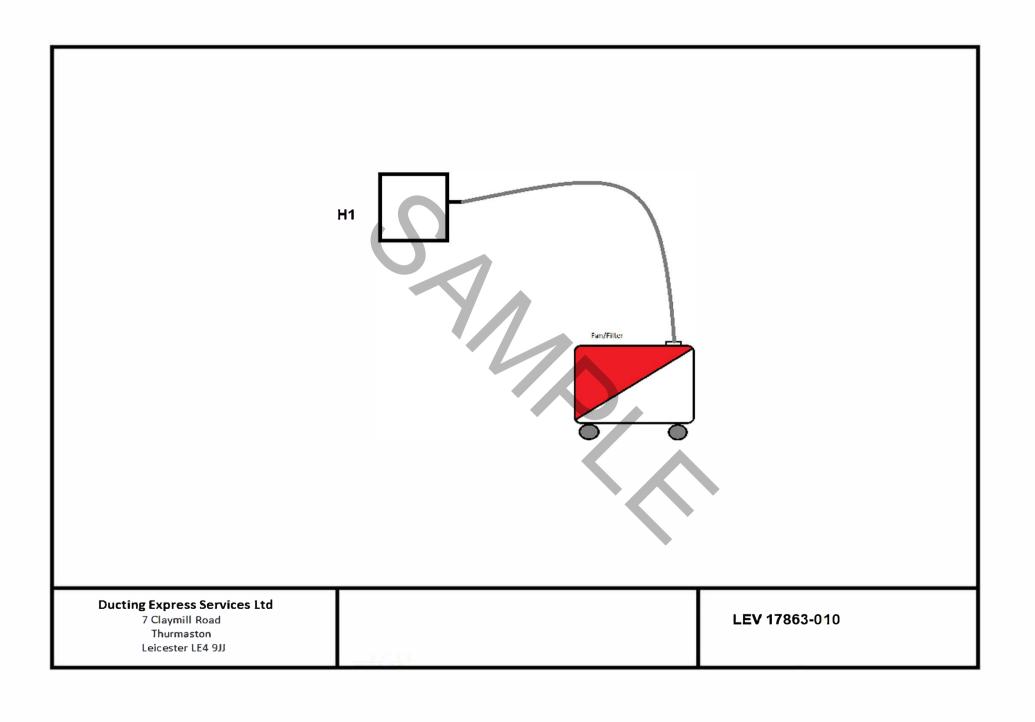
ACTION TAKEN:	
WORK CARRIED OUT BY:	



System	Reference Number						1	7863-010				
			Elliptical Hoods/Enclosures									
Test Point no.	Reference	Hood Type	Hood Width (mm)	Hood Length (mm)	Area (m²)	SP (Pa) Behind hood	Face Velocity (m/s)	Vol (m³/hr)	Airflow indicator fitted	Qualitative testing Method	Capture Distance (mm)	Satisfactory
H1	Unit Hood	Capturing	400	300	0.094	n/a	3.50	1187.52	No	Smoke test	400.00	Yes
					•							
						•						

Qualitative Containment Test Report

Summary:- Airflows recorded within guidelines set out in HSG 258 and to be used as a bench mark for future testing. Hoods effective to above stated distances when smoke tested, and to be used no further from process when in use in order to achieve effective control.





Test Report

LEV Reference		17863-011	
System description	Extraction of dust from metal Cutting		
Date of previous TEST		03.02.2020	
Date of latest TEST	04.03.2021		
Due date for next TEST		March 2022	
Location		Compipe	
Process/substance source	Pipe Fibre weaving		
Control effectiveness	SATISFACTORY		
Hazard to be controlled	Plastic/carbon dust		
Operators usage	Not witnessed		
Operating conditions	Ran in test mode		
Instruments used		Hot wire anemometer AS Ref 1	
		Smoke tester	
Calibration Notes	All calibration	records are kept at our head office in both hard	
		oft copies and are available on request	
Customer LEV logbook completed?	Yes	or copies and are area made of the second	
Modifications made to system?		No - Checked to drawing	
Recommendations		None	



Filter/A	Air Cleaner	Filter 1	Filter 2		
Make		DE	n/a		
Model		M550	n/a		
Туре		Manual shaker	n/a		
Serial Number		190232	n/a		
Filter media type		PNF x 1x10 envelope style	n/a		
Filter cleaning mechanism	m	Manual shaker	n/a		
Explosion relief vent	.0	Fitted	n/a		
Pressure drop (Pa)	0/4	750	n/a		
Inlet static pressure (Pa)		625	n/a		
Outlet static pressure (Pa		1375	n/a		
Satisfactory		Yes	n/a		
Comments		None	n/a		
		Ducting			
Type/Description		Galvanised spiral an	d plastic flexible		
Recommended	1.0-2.5	Recommended	15.00		
Capture Velocity (m/s)		Duct Velocity (m/s)			
Are the ductwork/hoods	etc in a satisfactory	Yes			
condition?					
Damper settings		n/a			
Stack height & termination		n/a			
Return air fitted? Position?*		Yes through filter			
Satisfactory		Yes			
Comments		None			

^{*} If a return air facility is in use then we advise that the frequency of testing should be at least once every 6 months



Fan(S)

Detail	Fan 1	Fan 2
Туре	Centrifugal	n/a
Supplier	DE	n/a
Serial number	n/a	n/a
Fan speed (rpm)	2860	n/a
Drive type	DD	n/a
Fan Status	Operational	n/a
Rotation (from drive side)	Anti-Clockwise	n/a
Motor speed (rpm)	2860	n/a
Motor power (kW)	1.5	n/a
Motor voltage (V)	415	n/a
Motor full load current (A)	3.14	n/a
Satisfactory	Yes	n/a
Comments	None	n/a



Hazard to be controlled	Plastic/carbon dust
Sources	Pipe Fibre weaving
WEL (if known) mg/m³ 8hr TWA	Customer to advise
Is the system used correctly? (Advise where necessary)	Yes
Is the system in good condition?	Yes
Is the system clean?	Yes
Air quality testing carried out?	Yes - See additional report
Repairs undertaken during inspection?	No
Is the control adequate under regulation 7 of the C,O.S.H.H. 2002 regulations	Yes

Further comments

From the test results, the dust collector and fan are confirmed as suitable for intended application. The filter pressure drop across filter bag implies that these are still within there intended life usage.

Ducting Express Services opinion is that the levels of process dust emanating from area will not exceed TLV's regulated by the HSE, especially considering PPE regulations in place on site. Extraction from the internally located fan/filter is efficient and as such operators are at no risk in terms of dust inhalation.

Log book provided to conform to H&S Guidance note 258, section 9.

The LEV system has therefore provided PASS in terms of relevant COSHH regulation and is Satisfactory in its present condition at the time of testing.

Action Required:	No
Quotation to be provided by	No
Ducting Express Services Ltd:	INO

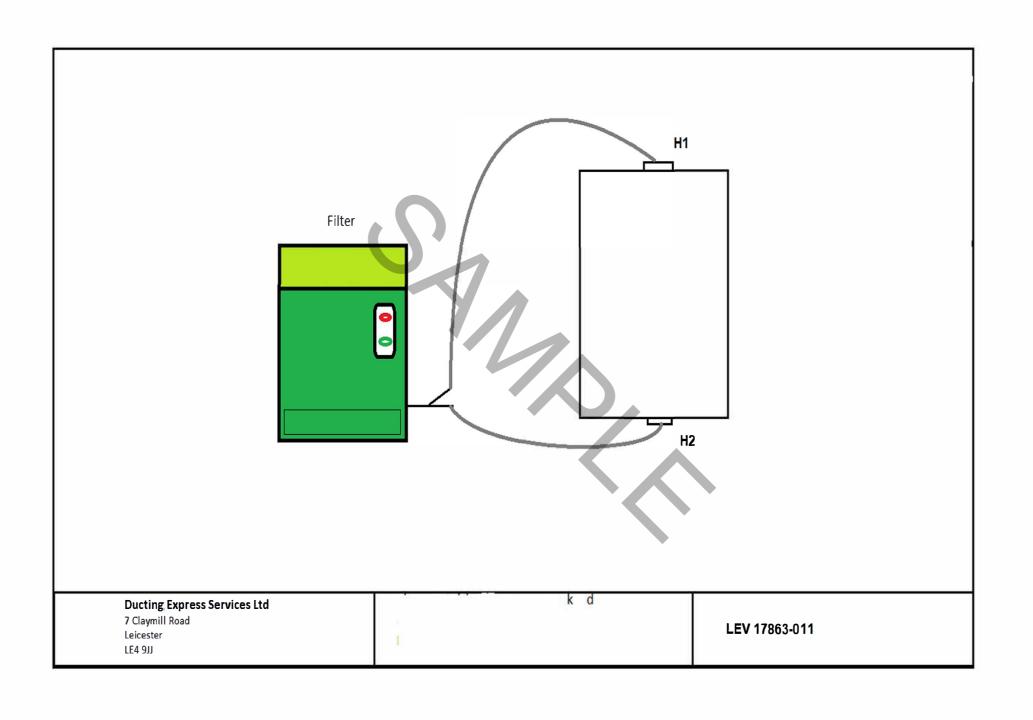
ACTION TAKEN:	
WORK CARRIED OUT BY:	



Syste	m Reference Number		17863-011								
			Circular Hoods/Enclosures								
Test Point no.	Reference	Hood Type	Hood dia (mm)	Area (m²)	SP (Pa) Behind hood	Face Velocity (m/s)	Vol (m³/hr)	Airflow indicator fitted	Qualitative testing Method	Capture Distance (mm)	Satisfactory
1H	Hood 1 top	Capturing	100	0.008	n/a	7.50	212.06	No	Smoke test	300.00	Yes
2H	Hood 2 bottom	Capturing	100	0.008	n/a	11.10	313.85	No	Smoke test	300.00	Yes
				V							

Qualitative Containment Test Report

Summary:- Airflows recorded within guidelines set out in HSG 258 and to be used as a bench mark for future testing. Hoods effective to above stated distances when smoke tested.





Test Report

LEV Reference	17863-012				
System description	Extraction of dust from belt sander				
Date of previous TEST	03.02.2020				
Date of latest TEST	04.03.2021				
Due date for next TEST	March 2022				
Location	Compipe				
Process/substance source	sanding of materials				
Control effectiveness	SATISFACTORY				
Hazard to be controlled	Plastic/carbon dust				
Operators usage	Not witnessed				
Operating conditions	Ran in test mode				
Instruments used	Hot wire anemometer AS Ref 1				
	Smoke tester				
Calibration Notes	All calibration records are kept at our head office in both hard				
	and soft copies and are available on request				
Customer LEV logbook completed?	Yes				
Modifications made to system?	No - Checked to drawing				
Recommendations	None				



aner	Filter 1 Axminster 10-20 plus	n/a				
	10-20 plus					
		, -				
	Manual shaker	n/a				
	13011613	n/a				
	Paper cartridge	n/a				
	Manual clean	n/a				
	n/a	n/a				
	n/a	n/a				
	n/a	n/a				
	n/a	n/a				
	Yes	n/a				
•	None	n/a				
	Ducting					
	plast	ic flexible				
1.0-2.5	Recommended	15.00				
	Duct Velocity (m/s)	V				
a satisfactory		Yes				
Damper settings		n/a				
Stack height & termination		n/a				
Return air fitted? Position?*		Yes through filter				
	Yes					
	None					
	1.0-2.5 a satisfactory	Paper cartridge Manual clean n/a n/a n/a n/a Yes None Ducting plasti 1.0-2.5 Recommended Duct Velocity (m/s) a satisfactory Yes thr				

^{*} If a return air facility is in use then we advise that the frequency of testing should be at least once every 6 months



Fan(S)

Detail	Fan 1	Fan 2
Туре	Centrifugal FM300B	n/a
Supplier	Axminster	n/a
Serial number	501264	n/a
Fan speed (rpm)	2860	n/a
Drive type	DD	n/a
Fan Status	Operational	n/a
Rotation (from drive side)	Anti-Clockwise	n/a
Motor speed (rpm)	2860	n/a
Motor power (kW)	1.5	n/a
Motor voltage (V)	240	n/a
Motor full load current (A)	unknown	n/a
Satisfactory	Yes	n/a
Comments	None	n/a



Hazard to be controlled	Plastic/carbon dust
Sources	sanding of materials
WEL (if known) mg/m³ 8hr TWA	Customer to advise
Is the system used correctly? (Advise where necessary)	Yes
Is the system in good condition?	Yes
Is the system clean?	Yes
Air quality testing carried out?	Yes - See additional report
Repairs undertaken during inspection?	No
Is the control adequate under regulation 7 of the C.O.S.H.H. 2002 regulations	Yes

Further comments

From the test results, the dust collector and fan are confirmed as suitable for intended application. The filter pressure drop across filter bag implies that these are still within there intended life usage.

Ducting Express Services opinion is that the levels of process dust emanating from area will not exceed TLV's regulated by the HSE, especially considering PPE regulations in place on site. Extraction from the internally located fan/filter is efficient and as such operators are at no risk in terms of dust inhalation.

Log book provided to conform to H&S Guidance note 258, section 9.

The LEV system has therefore provided PASS in terms of relevant COSHH regulation and is Satisfactory in its present condition at the time of testing.

Action Required:	No		
Quotation to be provided by	No		
Ducting Express Services Ltd:	140		

ACTION TAKEN:	
WORK CARRIED OUT BY:	



Syste	m Reference Number		17863-012								
			Circular Hoods/Enclosures								
Test Point no.	Reference	Hood Type	Hood dia (mm)	Area (m²)	SP (Pa) Behind hood	Face Velocity (m/s)	Vol (m³/hr)	Airflow indicator fitted	Qualitative testing Method	Capture Distance (mm)	Satisfactory
1H	Hood to Drum sander	Capturing	100	0.008	n/a	16.10	455.22	No	Smoke test	150.00	Yes

Qualitative Containment Test Report

Summary:- Airflows recorded within guidelines set out in HSG 258 and to be used as a bench mark for future testing. Hoods effective to above stated distances when smoke tested.

