

**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:

## 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



### 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	<b>SATISFACTORY</b>	
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	

### Equipment Details

Filter/Air Cleaner		Filter 1		Filter 2	
Make		Unknown		n/a	
Model		Unknown		n/a	
Type		Inline		n/a	
Serial Number		Unknown		n/a	
Filter media type		Unknown		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	
<b>Ducting</b>					
Type/Description		Plastic flexible/Galvanised spiral			
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		Open or closed			
Stack height & termination		Outside			
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

### Equipment Details

#### Fan(S)

Detail	Fan 1	Fan 2
Type	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/m <sup>3</sup> 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.

<b>Action Required:</b>	<b>No</b>
<b>Quotation to be provided by Ducting Express Services Ltd:</b>	<b>No</b>

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

**ACTION TAKEN:**.....

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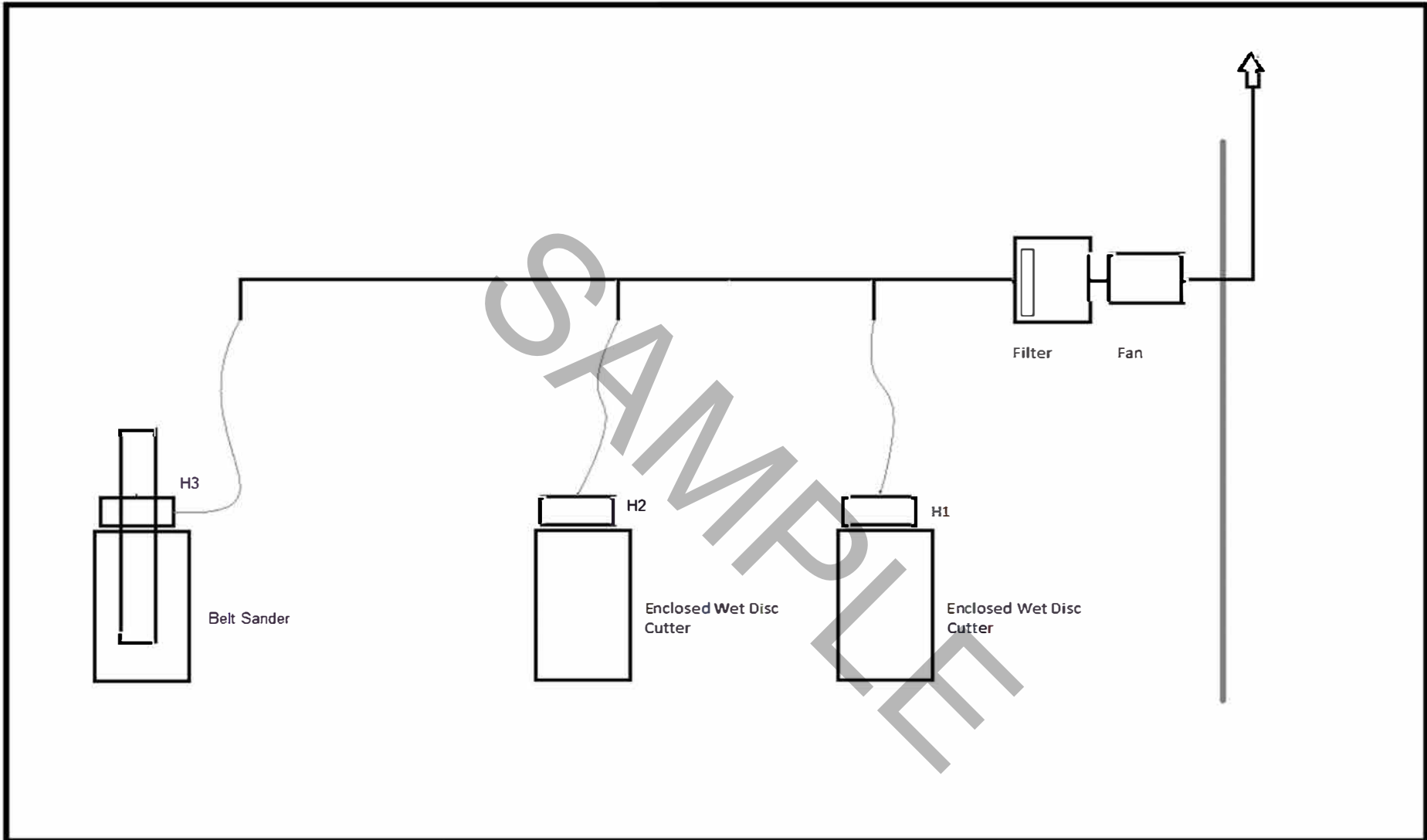
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## Reference Sheet

System Reference Number		17863-001									
		Circular Hoods/Enclosures									
Test Point no.	Reference	Hood Type	Hood dia (mm)	Area (m <sup>2</sup> )	SP (Pa) Behind hood	Face Velocity (m/s)	Vol (m <sup>3</sup> /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											
<p>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.</p>											





**Ducting Express Services Ltd**  
7 Claymill Road  
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Leicester LE4 9JJ

**LEV 17863-001**

### Test Report

LEV Reference	17863-002	
System description	Extraction of fumes from brazing process.	
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	<b>SATISFACTORY</b>	
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 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	

### Equipment Details

Filter/Air Cleaner		Filter 1		Filter 2	
Make		ETA		n/a	
Model		Unknown		n/a	
Type		In-Line Filter		n/a	
Serial Number		00001		n/a	
Filter media type		VNF Panel		n/a	
Filter cleaning mechanism		Replacement		n/a	
Explosion relief vent		n/a		n/a	
Pressure drop (Pa)		438		n/a	
Inlet static pressure (Pa)		259		n/a	
Outlet static pressure (Pa)		697		n/a	
Satisfactory		Yes		n/a	
Comments		None		n/a	
<b>Ducting</b>					
Type/Description		Galvanised circular and 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		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

### Equipment Details

#### Fan(S)

Detail	Fan 1	Fan 2
Type	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/m <sup>3</sup> 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 their 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.

<b>Action Required:</b>	<b>No</b>
<b>Quotation to be provided by Ducting Express Services Ltd:</b>	<b>No</b>

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

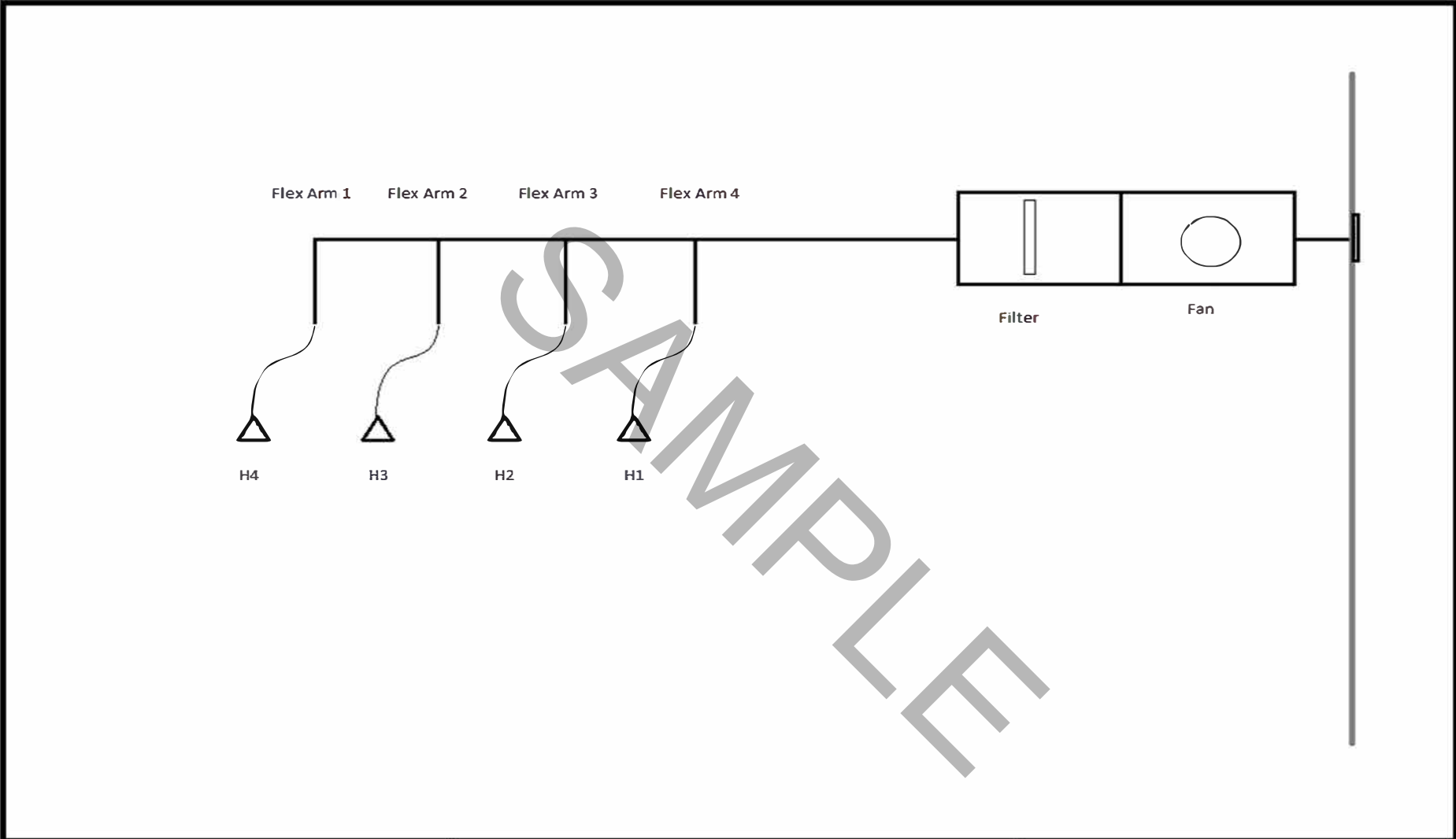
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**WORK CARRIED OUT BY:**.....

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**LEV 17863-002**

### 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	<b>SATISFACTORY</b>	
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	



### Equipment Details

Filter/Air Cleaner		Filter 1		Filter 2	
Make		DE		n/a	
Model		M550		n/a	
Type		Manual shaker		n/a	
Serial Number		1702768		n/a	
Filter media type		PNF x 1x10 envelope style		n/a	
Filter cleaning mechanism		Manual shaker		n/a	
Explosion relief vent		Fitted		n/a	
Pressure drop (Pa)		991		n/a	
Inlet static pressure (Pa)		625		n/a	
Outlet static pressure (Pa)		1616		n/a	
Satisfactory		Yes		n/a	
Comments		None		n/a	
<b>Ducting</b>					
Type/Description		Galvanised spiral			
Recommended	2.5-10	Recommended	20.00		
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		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

### Equipment Details

#### Fan(S)

Detail	Fan 1	Fan 2
Type	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/m <sup>3</sup> 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 their 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.

<b>Action Required:</b>	<b>No</b>
<b>Quotation to be provided by Ducting Express Services Ltd:</b>	<b>No</b>

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

**ACTION TAKEN:**.....

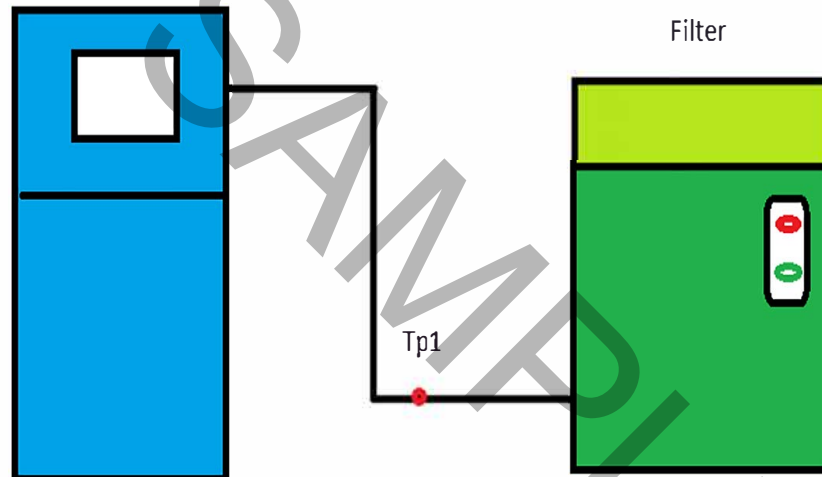
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**WORK CARRIED OUT BY:**.....

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## Reference Sheet

System Reference Number		17863-003						
		Circular Ducting						
Test Point no.	Reference	Duct dia (mm)	Area (m <sup>2</sup> )	SP (Pa)	VP (Pa)	Conv. Vel (m/s)	Vol (m <sup>3</sup> /hr)	Satisfactory
1	Filter inlet	125	0.012	272.00	247	20.27	895.68	Yes
Summary:- Airflows recorded within guidelines set out in HSG 258 and to be used as a bench mark for future testing.								



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**LEV 17863-003**

### 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	<b>SATISFACTORY</b>	
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	

### Equipment Details

Filter/Air Cleaner		Filter 1		Filter 2	
Make		DE		n/a	
Model		M550		n/a	
Type		Manual shaker		n/a	
Serial Number		1702769		n/a	
Filter media type		PNF x 1x10 envelope style		n/a	
Filter cleaning mechanism		Manual shaker		n/a	
Explosion relief vent		Fitted		n/a	
Pressure drop (Pa)		191		n/a	
Inlet static pressure (Pa)		425		n/a	
Outlet static pressure (Pa)		616		n/a	
Satisfactory		Yes		n/a	
Comments		None		n/a	
<b>Ducting</b>					
Type/Description		Galvanised spiral			
Recommended	2.5-10	Recommended	20.00		
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		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

### Equipment Details

#### Fan(S)

Detail	Fan 1	Fan 2
Type	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/m <sup>3</sup> 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 their 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.

<b>Action Required:</b>	<b>No</b>
<b>Quotation to be provided by Ducting Express Services Ltd:</b>	<b>No</b>

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

**ACTION TAKEN:**.....

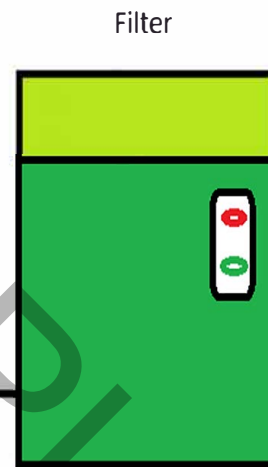
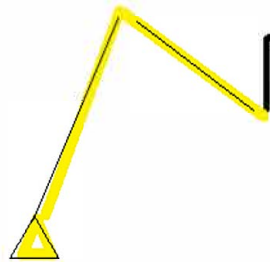
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## Reference Sheet

System Reference Number		17863-004						
		Circular Ducting						
Test Point no.	Reference	Duct dia (mm)	Area (m <sup>2</sup> )	SP (Pa)	VP (Pa)	Conv. Vel (m/s)	Vol (m <sup>3</sup> /hr)	Satisfactory
1	Filter inlet	100	0.008	475.00	225	19.35	547.11	Yes
<p>Summary:- Airflows recorded within guidelines set out in HSG 258 and to be used as a bench mark for future testing.</p>								



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**LEV 17863-004**

### 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	<b>SATISFACTORY</b>	
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	

### Equipment Details

Filter/Air Cleaner		Filter 1		Filter 2	
Make		Weldability		n/a	
Model		Protectoextract		n/a	
Type		Portable Unit		n/a	
Serial Number		A16037510031022		n/a	
Filter media type		3 Tier Cartridge		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	
<b>Ducting</b>					
Type/Description		Plastic Flexible Circular			
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		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

### Equipment Details

#### Fan(S)

Detail	Fan 1	Fan 2
Type	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/m <sup>3</sup> 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.

<b>Action Required:</b>	<b>No</b>
<b>Quotation to be provided by Ducting Express Services Ltd:</b>	<b>No</b>

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

**ACTION TAKEN:**.....

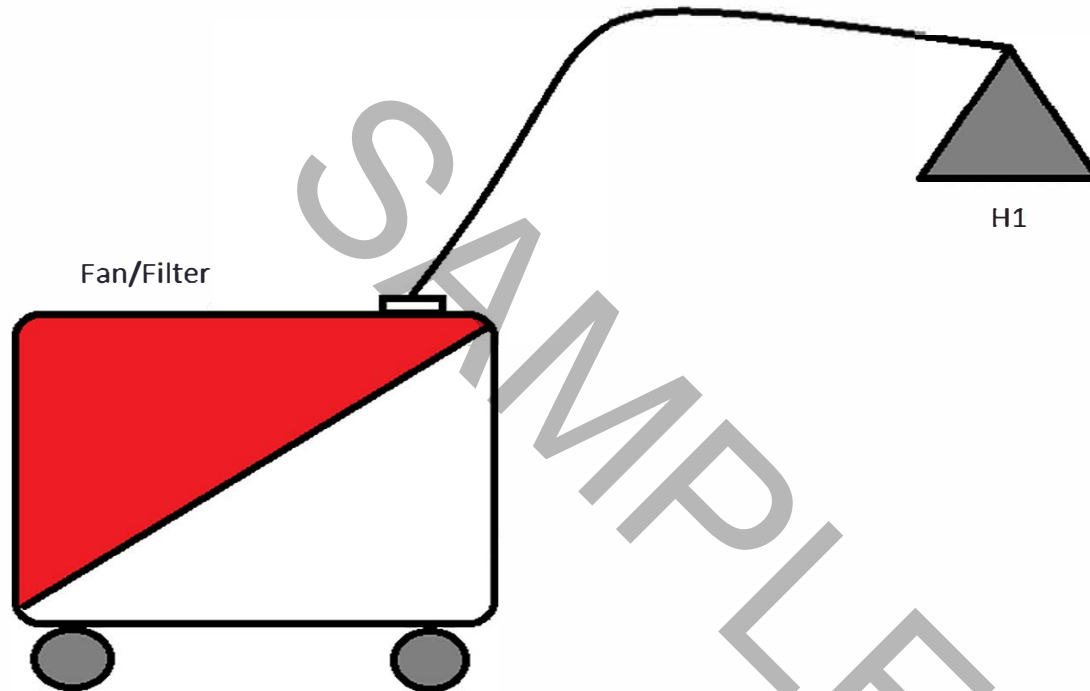
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**WORK CARRIED OUT BY:**.....

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Leicester LE4 9JJ

**LEV 17863-005**

### 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	<b>SATISFACTORY</b>	
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	

### Equipment Details

Filter/Air Cleaner		Filter 1	Filter 2
Make		Nederman	n/a
Model		NOM 4	n/a
Type		HEPA	n/a
Serial Number		701510	n/a
Filter media type		Hepa	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
<b>Ducting</b>			
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

### Equipment Details

#### Fan(S)

Detail	Fan 1	Fan 2
Type	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

### General Summary of LEV System

Hazard to be controlled	Oil mist
Sources	Metal cutting
WEL (if known) mg/m <sup>3</sup> 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.

<b>Action Required:</b>	<b>No</b>
<b>Quotation to be provided by Ducting Express Services Ltd:</b>	<b>No</b>

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

**ACTION TAKEN:**.....

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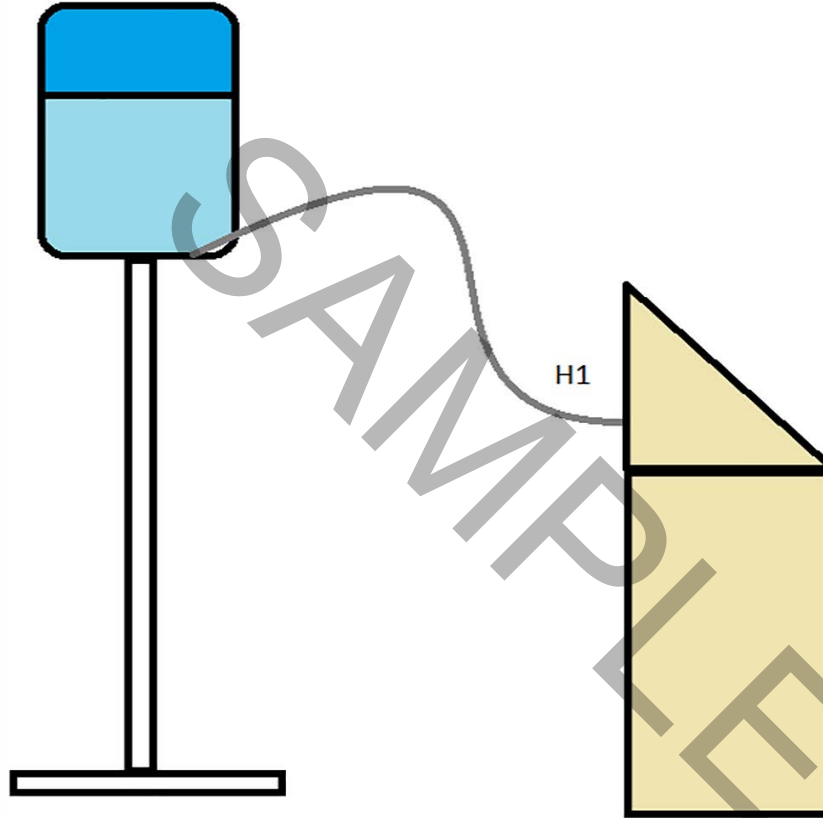
**WORK CARRIED OUT BY:**.....

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### Reference Sheet

System Reference Number		17863-006									
		Circular Hoods/Enclosures									
Test Point no.	Reference	Hood Type	Hood dia (mm)	Area (m <sup>2</sup> )	SP (Pa) Behind hood	Face Velocity (m/s)	Vol (m <sup>3</sup> /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											
<p>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.</p>											

Fan Filter



Ducting Express Services Ltd  
7 Claymill Road  
Thurmaston  
Leicester LE4 9JJ

LEV 17863-006

### 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	<b>SATISFACTORY</b>	
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	



### Equipment Details

Filter/Air Cleaner		Filter 1		Filter 2	
Make		Nederman		n/a	
Model		NOM 4		n/a	
Type		HEPA		n/a	
Serial Number		18114-00 12610468		n/a	
Filter media type		Hepa		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	
<b>Ducting</b>					
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

### Equipment Details

#### Fan(S)

Detail	Fan 1	Fan 2
Type	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

### General Summary of LEV System

Hazard to be controlled	Oil mist
Sources	Metal cutting
WEL (if known) mg/m <sup>3</sup> 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.

<b>Action Required:</b>	<b>No</b>
<b>Quotation to be provided by Ducting Express Services Ltd:</b>	<b>No</b>

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

**ACTION TAKEN:**.....

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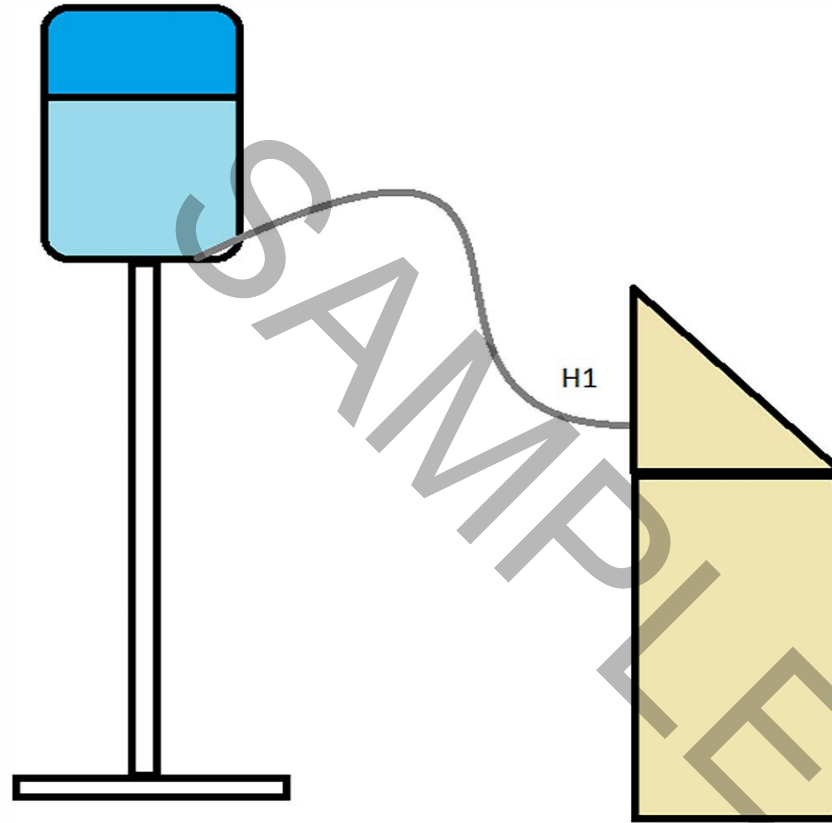
**WORK CARRIED OUT BY:**.....

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### Reference Sheet

System Reference Number		17863-007									
		Circular Hoods/Enclosures									
Test Point no.	Reference	Hood Type	Hood dia (mm)	Area (m <sup>2</sup> )	SP (Pa) Behind hood	Face Velocity (m/s)	Vol (m <sup>3</sup> /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											
<p>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.</p>											

Fan Filter



**Ducting Express Services Ltd**  
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Leicester LE4 9JJ

**LEV 17863-007**

### 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	<b>SATISFACTORY</b>	
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	

### Equipment Details

Filter/Air Cleaner		Filter 1		Filter 2	
Make		Weldability		n/a	
Model		Protectoextract		n/a	
Type		Portable Unit		n/a	
Serial Number		A16037510031017		n/a	
Filter media type		3 Tier Cartridge		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	
<b>Ducting</b>					
Type/Description		Metal Spiral and Plastic Flexible Arms			
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		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

### Equipment Details

#### Fan(S)

Detail	Fan 1	Fan 2
Type	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



### General Summary of LEV System

Hazard to be controlled	Weld Fumes
Sources	Pipe Welding
WEL (if known) mg/m <sup>3</sup> 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.

<b>Action Required:</b>	<b>No</b>
<b>Quotation to be provided by Ducting Express Services Ltd:</b>	<b>No</b>

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

**ACTION TAKEN:**.....

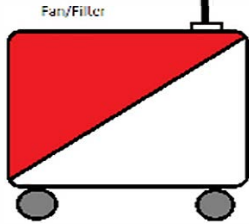
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**WORK CARRIED OUT BY:**.....

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## Reference Sheet

System Reference Number		17863-008									
		Circular Hoods/Enclosures									
Test Point no.	Reference	Hood Type	Hood dia (mm)	Area (m <sup>2</sup> )	SP (Pa) Behind hood	Face Velocity (m/s)	Vol (m <sup>3</sup> /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											
<p>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</p>											



**Ducting Express Services Ltd**  
7 Claymill Road  
Thurmaston  
Leicester LE4 9JJ

**LEV 17863-008**

### 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	<b>SATISFACTORY</b>	
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	

### Equipment Details

Filter/Air Cleaner		Filter 1		Filter 2	
Make		Weldability		n/a	
Model		Protectoextract		n/a	
Type		Portable Unit		n/a	
Serial Number		A16037510031018		n/a	
Filter media type		3 Tier Cartridge		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	
<b>Ducting</b>					
Type/Description		Plastic Flexible Circular			
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		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

### Equipment Details

#### Fan(S)

Detail	Fan 1	Fan 2
Type	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

### General Summary of LEV System

Hazard to be controlled	Carbon/Plastic Fumes
Sources	Testing Rig
WEL (if known) mg/m <sup>3</sup> 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.

<b>Action Required:</b>	<b>No</b>
<b>Quotation to be provided by Ducting Express Services Ltd:</b>	<b>No</b>

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

**ACTION TAKEN:**.....

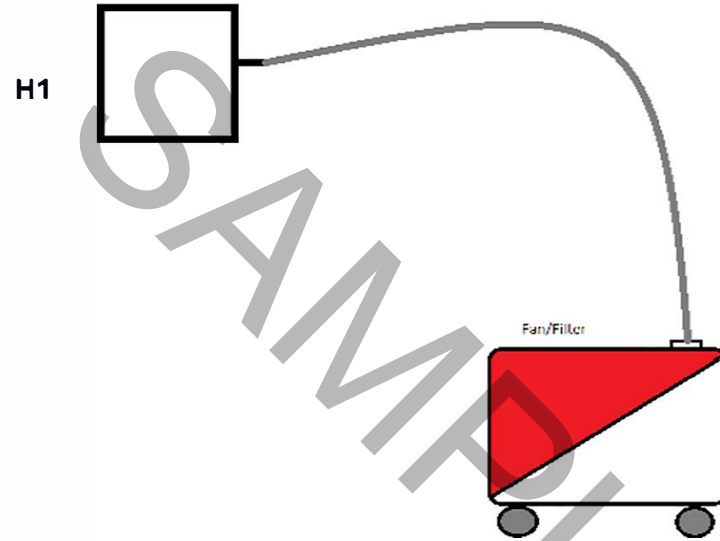
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**WORK CARRIED OUT BY:**.....

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**Ducting Express Services Ltd**  
7 Claymill Road  
Thurmaston  
Leicester LE4 9JJ

**LEV 17863-009**

### 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	<b>SATISFACTORY</b>	
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	

### Equipment Details

Filter/Air Cleaner		Filter 1		Filter 2	
Make		Weldability		n/a	
Model		Protectoextract		n/a	
Type		Portable Unit		n/a	
Serial Number		A16037510031021		n/a	
Filter media type		3 Tier Cartridge		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	
<b>Ducting</b>					
Type/Description		Plastic Flexible Circular			
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		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

### Equipment Details

#### Fan(S)

Detail	Fan 1	Fan 2
Type	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

### General Summary of LEV System

Hazard to be controlled	Carbon/Plastic Fumes
Sources	Testing Rig
WEL (if known) mg/m <sup>3</sup> 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.

<b>Action Required:</b>	<b>No</b>
<b>Quotation to be provided by Ducting Express Services Ltd:</b>	<b>No</b>

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

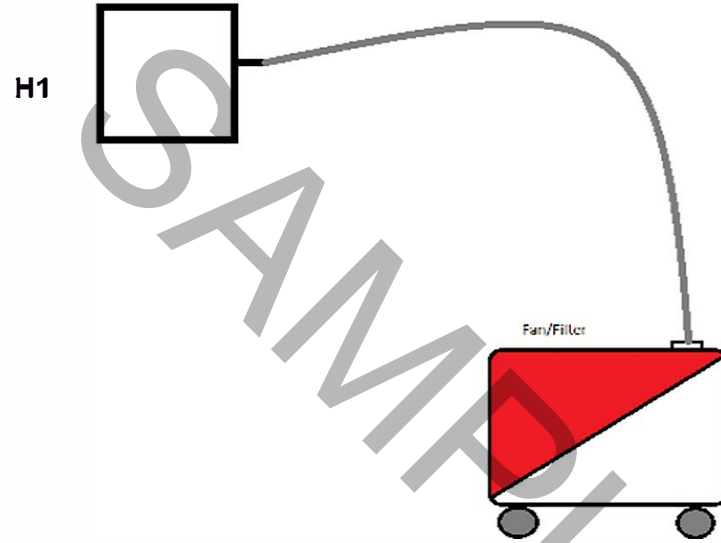
**ACTION TAKEN:**.....

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**WORK CARRIED OUT BY:**.....

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**Ducting Express Services Ltd**  
7 Claymill Road  
Thurmaston  
Leicester LE4 9JJ

**LEV 17863-010**

### 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	<b>SATISFACTORY</b>	
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	



### Equipment Details

Filter/Air Cleaner		Filter 1		Filter 2	
Make		DE		n/a	
Model		M550		n/a	
Type		Manual shaker		n/a	
Serial Number		190232		n/a	
Filter media type		PNF x 1x10 envelope style		n/a	
Filter cleaning mechanism		Manual shaker		n/a	
Explosion relief vent		Fitted		n/a	
Pressure drop (Pa)		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	
<b>Ducting</b>					
Type/Description		Galvanised spiral and 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 condition?		Yes			
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

### Equipment Details

#### Fan(S)

Detail	Fan 1	Fan 2
Type	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	Plastic/carbon dust
Sources	Pipe Fibre weaving
WEL (if known) mg/m <sup>3</sup> 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 their 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.

<b>Action Required:</b>	<b>No</b>
<b>Quotation to be provided by Ducting Express Services Ltd:</b>	<b>No</b>

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

**ACTION TAKEN:**.....

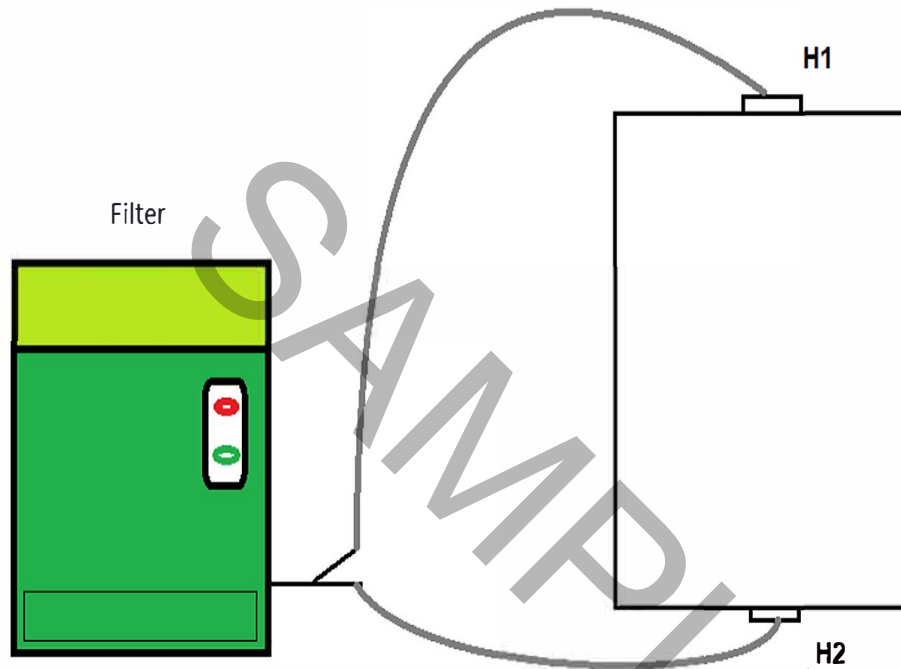
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**WORK CARRIED OUT BY:**.....

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## Reference Sheet

System Reference Number		17863-011									
		Circular Hoods/Enclosures									
Test Point no.	Reference	Hood Type	Hood dia (mm)	Area (m <sup>2</sup> )	SP (Pa) Behind hood	Face Velocity (m/s)	Vol (m <sup>3</sup> /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
Qualitative Containment Test Report											
<p>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.</p>											



**Ducting Express Services Ltd**

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**LEV 17863-011**

### 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	<b>SATISFACTORY</b>	
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	

### Equipment Details

Filter/Air Cleaner		Filter 1	Filter 2
Make		Axminster	n/a
Model		10-20 plus	n/a
Type		Manual shaker	n/a
Serial Number		13011613	n/a
Filter media type		Paper cartridge	n/a
Filter cleaning mechanism		Manual clean	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
<b>Ducting</b>			
Type/Description		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 condition?		Yes	
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

### Equipment Details

#### Fan(S)

Detail	Fan 1	Fan 2
Type	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



### General Summary of LEV System

Hazard to be controlled	Plastic/carbon dust
Sources	sanding of materials
WEL (if known) mg/m <sup>3</sup> 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 their 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.

<b>Action Required:</b>	<b>No</b>
<b>Quotation to be provided by Ducting Express Services Ltd:</b>	<b>No</b>

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

**ACTION TAKEN:**.....

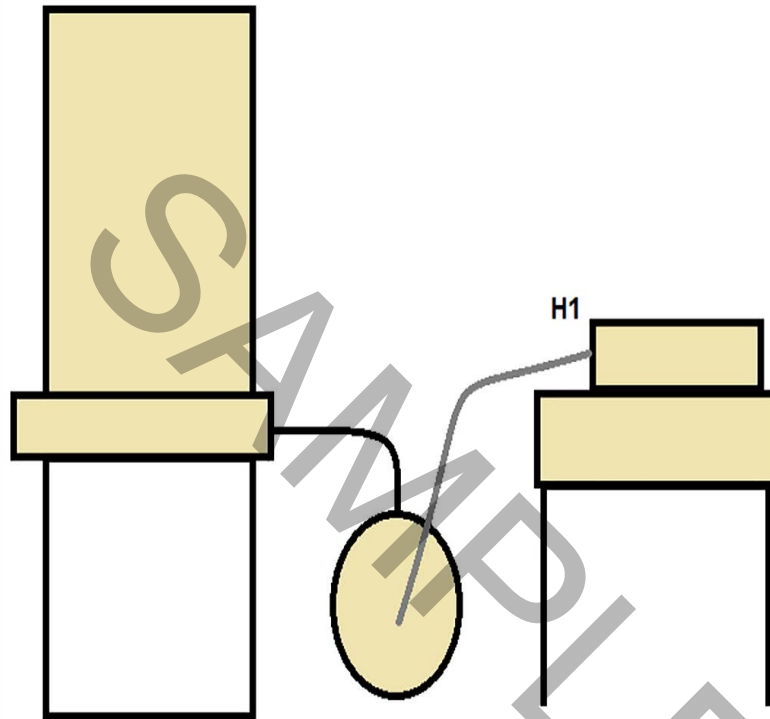
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**WORK CARRIED OUT BY:**.....

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### Reference Sheet

System Reference Number		17863-012									
		Circular Hoods/Enclosures									
Test Point no.	Reference	Hood Type	Hood dia (mm)	Area (m <sup>2</sup> )	SP (Pa) Behind hood	Face Velocity (m/s)	Vol (m <sup>3</sup> /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.											



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**LEV 17863-012**