

Technical Bulletin No: 20-2016



Title:	Thorough Examination and Test of Dust Extractors
Priority	Amber – Audit Rating: Non-Conformance-Minor
Legislation:	CoSHH Regulation 9, PUWER, HASWA S6, E@WR
Brief Description:	Dust extractors for capture of construction dust fall under the scope of Regulation 9 of CoSHH requiring a Thorough Examination and Test (TEt) – HAE have developed a test kit (HAE TEt) to complete the process
Equipment Affected:	<u>All</u> vacuum cleaners and dust vacs plus M or H Classification Dust Extractors

Overview:

As per HSE publication CIS69 (<http://www.hse.gov.uk/pubns/cis69.pdf>) – *Controlling Construction Dust with On-Tool Extraction*, the use of a M or H classification dust extractor is required to comply with the stringent Workplace Exposure Limits (WELs) for construction dusts.

Hire companies nationally are seeing a significant increase in demand for M or H classification dust extractors. This demand will continue to grow as managing the risks associated with construction dust is a HSE key focus. In the last twelve months 60% of formal HSE enforcement action on sites has been for poor or non-existent construction dust management.

We have been working directly with the HSE’s Respiratory Risk Team, the Construction Dust Partnership and our supplier members to ensure that we have a strategy to support our members and industry customers. A low cost HAE TEt Kit has been produced that includes step by step guidance and necessary test equipment to complete the process. This is now available through HAE Direct.

Required Actions:

For non-classified dust extractors and vacuums, label D (as below) **must** be fitted in a prominent position. Clients that still hire machines that are not classified are risking HSE action. Non-classified vacs may be used for wet collection (if designed for task) and domestic debris but not dry construction dusts.

For M or H class dust extractors (with manufacturer fitted labels A or B as below) a Thorough Examination and Test must be completed. This includes a visual examination and air velocity measurement. A very simple method has been identified for this along with a test kit. Simply order a HAE TEt Kit – go to: <http://www.hae-safetyleaflets.co.uk/products.cfm> **Part Number: HAE TEt**

A) - Typical M Classification Label	B) - H Classification Label	HAE TEt Kit	
C) – HAE Label 3096 – Good for all vacs and extractors	D) – 3097 – Must be fitted to all non-classified vacs	E) - 3098 – Good for all vacs and extractors	F) - 3099 – optional label for non-classified vacs
Additional Information:	<ul style="list-style-type: none"> Review hire fleet and workshop vacs and extractors and update labelling Complete Thorough Examination and Test (TEt) and issue a test certificate – the HAE TEt kit includes all information and test equipment required to complete the TEt Share CIS69 with clients at point of hire and via marketing Review HAE Dust Management in Hire Code of Practice 		
Circulation:	workshops, mobile service and management teams		

Title:	Dust Extractor TEt	Bulletin Number:	20 - 2016	Creation Date:	12/04/2016
Authors:	TfH Ltd	Reviewed by:	Tech. H&S	Revision:	V1.1

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On-Tool Extraction Unit TExT Report - Template

Name and address of employer responsible (Client or Hire Company)					
Date of Current TExT dd/mm/yy		Date of last TExT dd/mm/yy			
Dust Extractor Make & Model		Fleet / ID or Serial Number			
Accessories Included? Tick below or list here – for hoses record Internal Diameter (ID) in mm					
<input type="checkbox"/> Hose 1 – ID mm <input type="checkbox"/> Hose 2 – ID = mm <input type="checkbox"/> Lance / vacuum head? <input type="checkbox"/> Adaptors?					
Visual Examination			Pass - Fail - n/a or Detail		
Extractor classification decal (M or H) attached and legible					
Good external condition? No cracks in body? Frame intact?					
Wheels / castors / brakes – present / good condition / working?					
Hose in good condition, no cuts, holes, couplings present and cleaned?					
Body seal intact? New bag fitted? Body / bucket clean?					
Filter Condition? – record date of last replacement if known					
Is machine clean after the filter i.e. no debris on clean side / at exhaust port?					
Cable, plug and switches / selectors – Combined Inspection & Test (PAT) Complete?					
Technical Performance Measurement			Results – Pass / Fail / Detail		
Hose 1 - Indicated Maximum Air Velocity	m/s	Hose 2 – Indicated Maximum Air Velocity	m/s		
Is the air velocity 20 m/s or higher? – if yes – record a pass			Pass / Fail		
Blocked filter indicator test – record air velocity when indicator operates – is machine fitted with a variable hose size selector switch? If yes complete test 1 & 2 if no, go to test 3 – (see Step 4A in HAE TExT Instruction Manual)					
Test 1	Set selector to largest size	What size is selected? mm	Restrict hose, until alarm activates / light on / gauge into red band	What is the indicated air speed?	m/s
Test 2	Set selector to smallest size	What size is selected? mm	Restrict hose, until alarm activates / light on / gauge into red band	What is the indicated air speed?	m/s
Test 3	What is the largest hose that is being supplied?	mm	Restrict hose, until alarm activates / light on / gauge into red band	What is the indicated air speed?	m/s
Does the alarm operate at 20 m/s or greater? – Pass if yes			Pass / Fail		
Notes:					
Name of Test Engineer		Job Title		Hire Company / Branch	
Signature					

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On-Tool Extraction Unit TExT Report – Complete Example

Name and address of employer responsible (Client or Hire Company)		Customer hiring machine is: MDF Construction Limited, 29 Silica Avenue, Woodville, Stonehaven ST12 4XZ			
Date of Current TExT dd/mm/yy	14/04/2016	Date of last TExT dd/mm/yy	14/04/2016		
Dust Extractor Make & Model	Dustcontrol DC1800	Fleet / ID or Serial Number	TFH00162		
Accessories Included? Tick below or list here – for hoses record Internal Diameter (ID) in mm Lance and vacuum head. Adaptor for hilti wall chaser.					
<input checked="" type="checkbox"/> Hose 1 – ID 36 mm	<input checked="" type="checkbox"/> Hose 2 – ID = 30 mm	<input checked="" type="checkbox"/> Lance / vacuum head?	<input checked="" type="checkbox"/> Adaptors?		
Visual Examination			Pass - Fail - n/a or Detail		
Extractor classification decal (M or H) attached and legible			Pass - H Class		
Good external condition? No cracks in body? Frame intact?			Pass		
Wheels / castors / brakes – present / good condition / working?			Pass		
Hose in good condition, no cuts, holes, couplings present and cleaned?			Pass		
Body seal intact? New bag fitted? Body / bucket clean?			Pass		
Filter Condition? – record date of last replacement if known			Pass - 14 th July 2015		
Is machine clean after the filter i.e. no debris on clean side / at exhaust port?			Pass		
Cable, plug and switches / selectors – Combined Inspection & Test (PAT) Complete?			Pass		
Technical Performance Measurement			Results – Pass / Fail / Detail		
Hose 1 - Indicated Maximum Air Velocity	51 m/s	Hose 2 – Indicated Maximum Air Velocity	73.9 m/s		
Is the air velocity 20 m/s or higher? – if yes – record a pass			Pass / Fail		
Blocked filter indicator test – record air velocity when indicator operates – is machine fitted with a variable hose size selector switch? If yes complete test 1 & 2 if no, go to test 3 – (see Step 4A in HAE TExT Instruction Manual)					
Test 1	Set selector to largest size	What size is selected? mm	Restrict hose, until alarm activates / light on / gauge into red band	What is the indicated air speed?	m/s
Test 2	Set selector to smallest size	What size is selected? mm	Restrict hose, until alarm activates / light on / gauge into red band	What is the indicated air speed?	m/s
Test 3	What is the largest hose that is being supplied?	36 mm	Restrict hose, until alarm activates / light on / gauge into red band	What is the indicated air speed?	34 m/s
Does the alarm operate at 20 m/s or greater? – Pass if yes			Pass / Fail		
Notes: Filter inspected using torch and primary filter washed and inspected. Good condition overall					
Name of Test Engineer	Job Title	Hire Company / Branch	Signature		
Mr Colin O P Davis	T and R Technician	Bloggs Hire - Branch 147	C Davis		

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