Technical documentation

series 160
ASD 160 MD H

LASER FUMES

DUST AND SMOKE

SOLDERING FUMES

ODORS, GASES, AND VAPORS

CLEANING INDUSTRIAL GASES

NEW EMISSIONS

WELDING FUMES

OIL AND EMULSION MISTS

COMPLETE SOLUTIONS

Date of issue: 04/2014

ULT
UMWELT - LUFTTECHNIK

Extraction. Filtration. Persistence.

ASD 160 MD H

DUST AND SMOKE

Use and application

The **ASD 160 MD H** is suitable for collecting and filtering dry and non-combustible types of dust contained in non-explosive air mixtures. Any emitted and partially unhealthy **types of dust** ought to be extracted by collecting elements directly at their place of origin and can be filtered by the ASD 160 MD H. The material of the filter elements ensures effective filtering out of the various dust particle sizes. The different filter elements can be changed separately extending the lifetime of the main filter element. The main filter element guarantees a separation efficiency of > 99 %.

Examples

- engraving
- polishing
- grinding
- restoration / cleaning of artworks

ULT 160 stationary extraction and filtration unit

- stationary unit with rubber feet
- optional mounting of castors for mobile unit
- replacement filter system
- control panel on the front side
- easy filter handling, accessible from the top
- robust steel housing
- powder coated RAL 7035 light grey

Filter system:

Storage filter system
Filters which are replaced once they are saturated.

Filter technology:

(1) Z-Line filter G4
filter class: G4 coarse dust filter according to DIN EN 779

(2) Filter mat M5
filter class: M5 medium dust filter according to DIN EN 779

(3) Particle filter cassette H13
filter class: H13 HEPA-filter according to DIN EN 1822

Configuration

Air flow controller:	suction power is continuously adjustable
Loaded particle filter indicator:	visualization of the particle filter condition

ASD 160 MD H

DUST AND SMOKE

ASD 0160.0-MD.bb.cc.3001

Parameter	unit	-MD.11.10	
Max. air flow	m^3 / hr	190	
Max. vacuum	Pa	3.200	
Nominal capacity	m^3/hr / Pa	80 / 1.900	
Motor-nominal power	kW	0,15	
Nominal voltage	V	1~ 230	
Nominal current	A	1	
Frequency	Hz	50 / 60	
Protection class	IP	54	
Type blower		EC-blower	
Noise level (at 50 - 100%)	dB(A)	45 - 49	
Air flow controller		yes	
Loaded particle filter indicator	optical	yes	
Air intake	Ø	1 x 50 mm; max. 2x	
	position	on the top	
Air outlet		air exhaust louver	
	position	lower part of the backside	
Width	mm	390	
Depth	mm	380	
Height	mm	450	
Weight	kgs	ca. 20	
Length of power cable	m	3,0	
Filter system		filter system: storage filter	
		filter set complete consisting of:	ULT 02.1.510
	(1)	Z-Line filter G4	ULT 02.0.570
	(2)	Filter mat M5	ULT 02.0.572
	(3)	Particle filter cassette H13	ULT 02.1.511
Options			
air intake	(1*)	2x Ø 50 mm on top	
mobile unit	(2*)	4 castors, without break, new height: 503 mm	

(1*)

(2*)

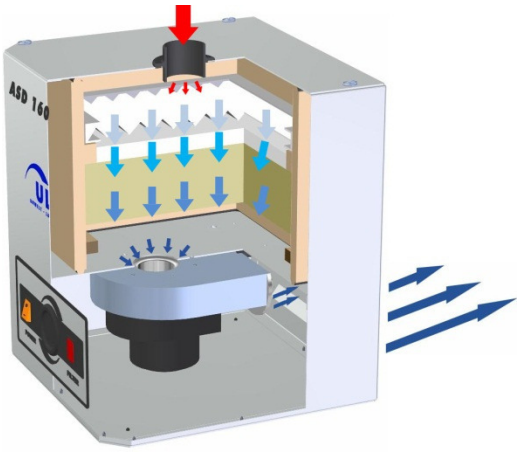
ASD 160 MD H

DUST AND SMOKE

Functional principle:

At the clean-air side of the filter, a vacuum generator with a high pressure reserve produces a volume flow matched to the respective application. This volume flow can be individually and infinitely variably regulated. Thus, the polluted air will be reliably extracted.

The particles are reliably filtered in a multi-stage filtering system, consisting of Z-line filter, filter mat and high efficiency particulate airfilter.



raw gas
filtration
clean gas

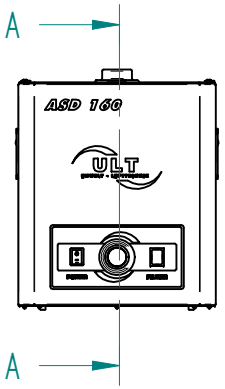
Storage filter system

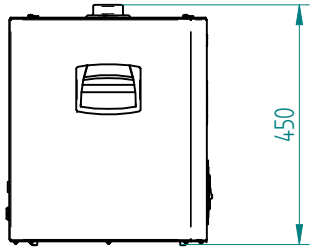
Filters which are replaced once they are saturated.

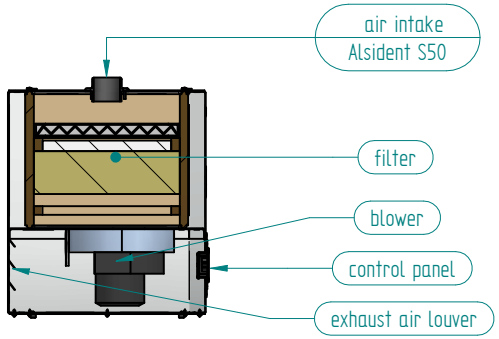
Filtration set complete:

(1)	coarse dust filter	Z-Line filter G4
(2)	fine dust filter	Filter mat M5
(3)	particulate filter	HEPA filter H13

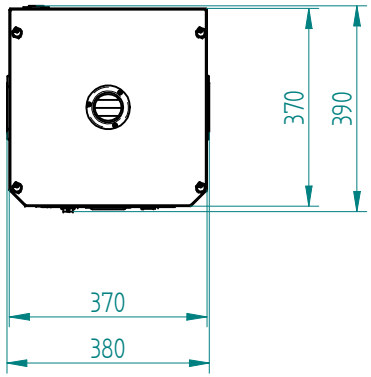
This excellent filter efficiency makes it possible to recirculate the **filtered air** and reduce energy costs.

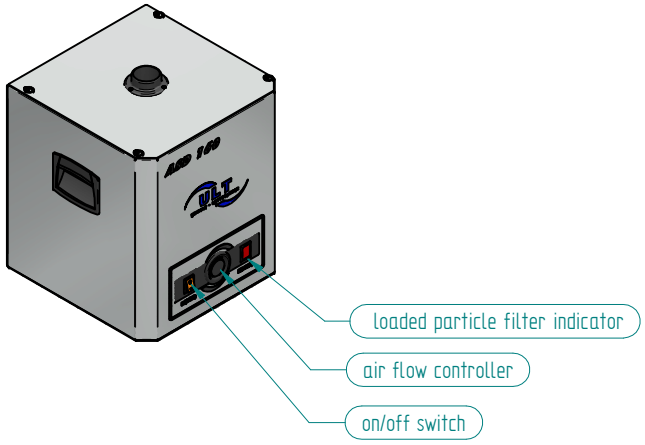




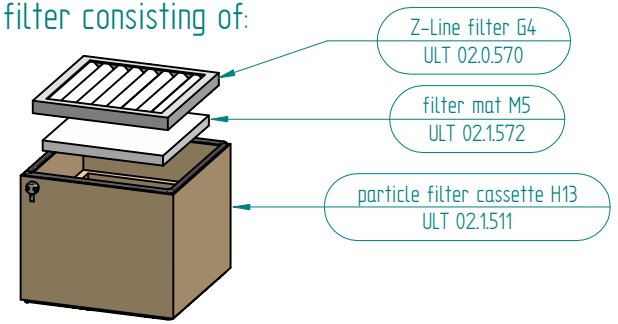


cutaway A-A





filter consisting of:



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issue	revision	day	name		veri.					
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