

series 1200
ACD 1200 MD A46 Ex



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: 04/2015



Extraction. Filtration. Persistence.



ODORS,
GASES, AND
VAPORS

Use and application

The **ACD 1200 MD A46 Ex** is suitable for the extraction and filtration of gases, vapours and odours. With its **explosion-proof vacuum generator** according to ATEX EEx e II 2G the device has superior safety properties for Ex-protection. All electrical controls and displays are placed in a remote control unit. Therefore no electrical ignition sources are present inside the device. Every filter element is connected to the grounding system of the device in order to prevent electrostatic charges or sparks. Hazardous **fumes and gases** ought to be extracted by collecting elements directly at their place of origin and can be filtered by the ACD 1200 MD A46 Ex. The thick layer of activated charcoal enables a long contact time with the contaminated air flow and guarantees a high deposition rate of unhealthy gases and vapours. The gases and fumes are adsorbed effectively.

Examples

- ➔ sticking, pre-treat
- ➔ varnishing, imprinting
- ➔ cleaning, laminating
- ➔ casting



ULT 1200 mobile extraction and filtration unit

- ➔ mobile unit with castors
- ➔ ventilator with explosion-proof construction
- ➔ metal filter cassettes with grounding connectors
- ➔ All parts with contact to the raw gas stream are integrated into the grounding system
- ➔ electrical signals and control elements located in remote control unit with hanging device
- ➔ easy filter handling
- ➔ robust steel housing
- ➔ powder coated 7035 light grey, RAL 7001 silver grey

Filter system:

Storage filter system

Filters which are replaced once they are saturated.

Filter technology:

- (1) Filter mat M5
filter class: M5 medium dust filter according to DIN EN 779
- (2) Adsorption filter cassette A23
Filter medium: activated charcoal (23 kg)
- (3) Adsorption filter cassette A23
Filter medium: activated charcoal (23 kg)





ACD 1200.0-MD.bb.cc.1012

Parameter	unit	-MD.46.00.	
Max. air flow	m ³ / hr	1.700	
Max. vacuum	Pa	2.600	
Nominal capacity	m ³ /hr / Pa	1.000 / 1.800	
Motor-nominal power	kW	1,50	
Nominal voltage	V	3~ 400	
Nominal current	A	3,3	
Frequency	Hz	50	
Protection class	IP	55	
Type blower		ventilator	
Noise level (at 50 - 100%)	dB(A)	62	
ATEX certification vacuum generator		EEEx e II 2 G c T3	
Air intake options		1x Ø 150 mm take off	
	position	backside of the unit	
		1x Ø 160 mm take off	
Air outlet		on top of the unit	
	position	air exhaust louver	
	position	lower rear side	
Width	mm	790	
Depth	mm	820	
Height	mm	1.040	
Weight	kgs	ca. 180	
Length of power cable	m	6,0	
Filter system		filter system: storage filter	
		filter set complete consisting of:	
	(1)	Filter mat M5	ULT 02.0.654
	(2)	Adsorption filter cassette A23	ULT 02.1.603
(3)	Adsorption filter cassette A23	ULT 02.1.602	
Options:			
exhaust air connection	(1*)	1x Ø 200 mm mounted on exhaust air louver	

(1*)





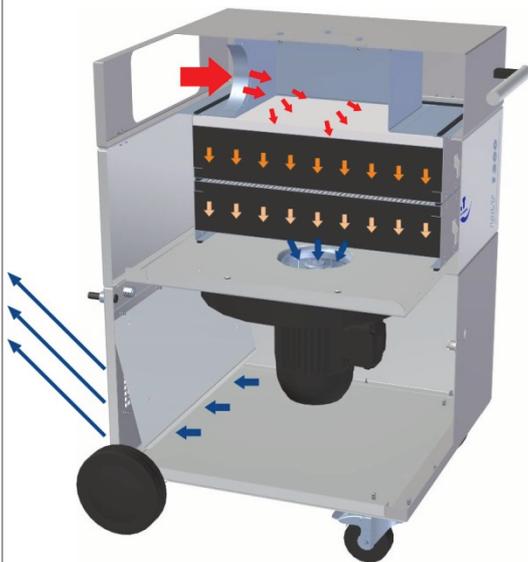
Functional principle:

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. Thus, the polluted air will be reliably extracted.

The separation of **Gaseous air pollutants, odors and fumes** takes place in the activated charcoal filter where they are adsorbed.

The filtering effect of activated charcoal is based on adsorption, i. e. an accumulation of substances (to be filtered out) on the surface of the activated charcoal. During this process there are no chemical reactions and changes of the captured substances. The construction of the filter elements underlies the air volume of the unit; the contact time is based on a medium adsorption reaction.

With the grounding of all the parts which are having contact with the pollutant gas stream, the risk of electrostatic charges or the emergence of sparks is reduced.



-  raw gas
-  filtration
-  clean gas

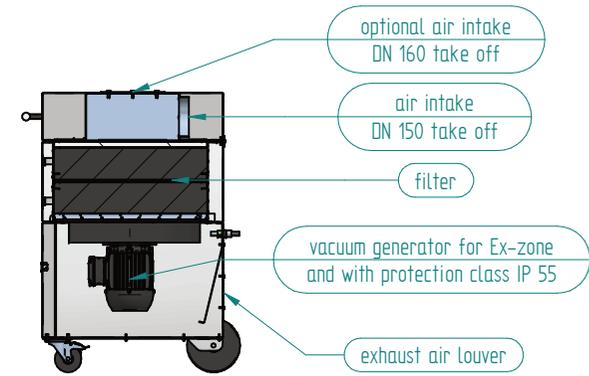
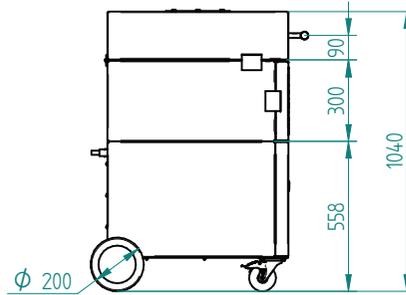
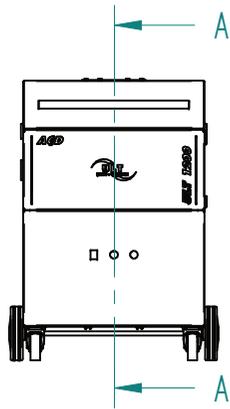
Storage filter system

Filters which are replaced once they are saturated.

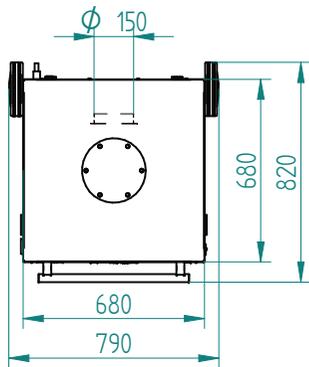
Filtration set complete:

- (1) **Pre - dust filter** Filter mat M5
- (2) **gas filtration** Adsorption filter cassette A23 (23 kgs activated charcoal)
- (3) **gas filtration** Adsorption filter cassette A23 (23 kgs activated charcoal)

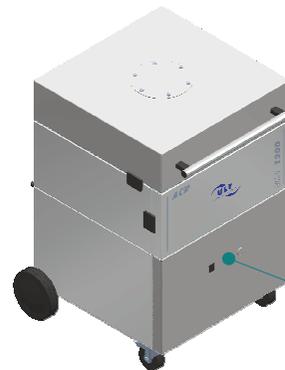
This excellent filter efficiency makes it possible to recirculate the **filtered air** and reduce energy costs.



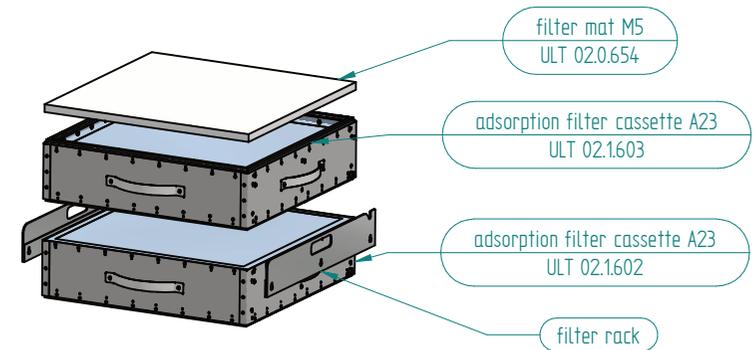
cutaway A-A



filter set consisting of:



controls and displays are placed in a remote control unit outside the hazardous zone



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				ULT AG Am Gopelreich 1 D-02708 Lobau		designation: ACD 1200 MD A46 / 1.000 m³/h	
				2014	date	drawing number:	
001	base	11.02.14	JSacz	edit.	11.02.	JSacz	scale:
issue	revision	day	name	verf.			1 : 20
drawing number: ULT 1200_00_134_001							