

series 220  
ACD 220 Ex



Date of issue: 12/2016



LASER  
FUMES



DUST AND  
SMOKE



SOLDERING  
FUMES



ODORS,  
GASES, AND  
VAPORS



CLEANING  
INDUSTRIAL  
GASES



NEW  
EMISSIONS



WELDING  
FUMES



OIL AND  
EMULSION  
MISTS



COMPLETE  
SOLUTIONS



Extraction. Filtration. Persistence.



### Use and application

The ACD 220 Ex is suitable for the extraction and filtration of gases, vapours and odours. With its **explosion-proof vacuum generator** according to ATEX Ex 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 220 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 220 mobile extraction and filtration unit

- mobile unit with castors
- ventilator with explosion-proof construction
- metal filter cassettes with grounding connectors
- electrical signals and control elements located in remote control unit
- easy filter handling, modular system
- robust steel housing
- powder coated RAL 7035 light grey

### Filter system:

Storage filter system

Filters which are replaced once they are saturated.

### Filter technology:

Main filter module A6

- (1) Adsorption filter cassette A6  
Filter medium: activated charcoal (6 kg)

Optional secondary filter module

- (2) Adsorption filter cassette A8  
Filter medium: activated charcoal (8 kg)



## Technical documentation

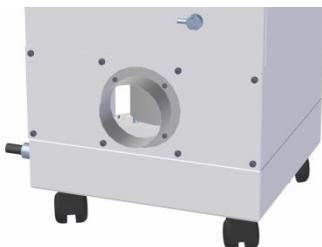
ACD 220 Ex



## technical Data

Parameter	unit		
Max. air flow	m <sup>3</sup> / hr	420	
Max. vacuum	Pa	1.100	
Nominal capacity	m <sup>3</sup> /hr / Pa	200 / 900	
Motor-nominal power	kW	0,12	
Nominal voltage	V	1~ 230	
Nominal current	A	1,07	
Frequency	Hz	50	
Protection class	IP	54	
Type blower		Ventilator	
Noise level (at 50 - 100%)	dB(A)	50 - 53	
ATEX certification vacuum generator		Ex II 2 G c IIB T4	
Air intake	Ø	ALSIDENT S50 mm; optional: further Ø; number max. 2x	
	position	on top or of the unit	
Air outlet		air exhaust louver, optional Ø 100 mm exhaust nozzle	
	position	lower part of the backside	
Width	mm	390	
Depth	mm	380	
Height	mm	690	
Weight	kgs	ca. 30	
Length of power cable	m	3,0	
Filter system		filter system: storage filter	
		filter set complete consisting of:	
	(1)	Adsorption filter cassette A6	ULT 02.1.042
		Optional secondary filter, changed height +260 mm	
	(2)	Adsorption filter cassette A8	ULT 02.1.043
Options:			
exhaust air connection	(1*)	1 x Ø 100 mm	

(1\*)



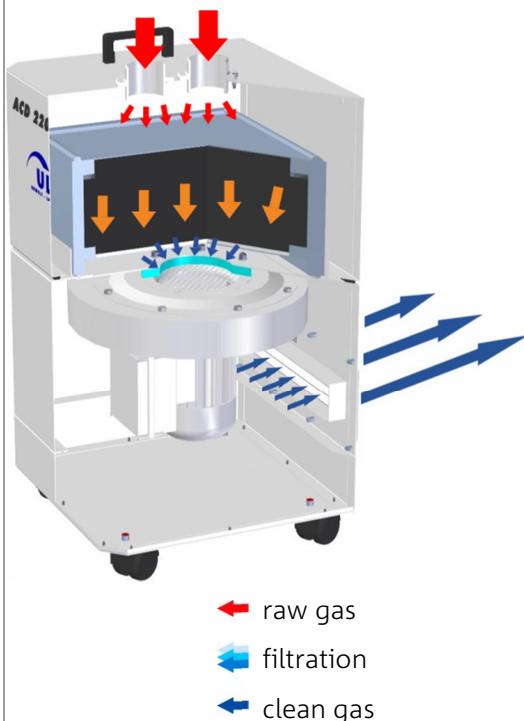
ODORS,  
GASES, AND  
VAPORS**Functional principle:**

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.

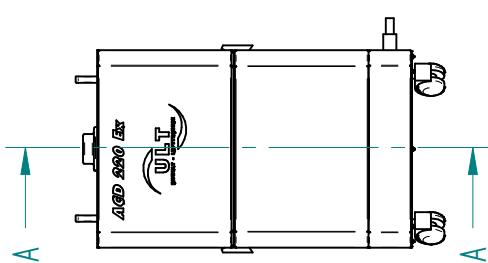
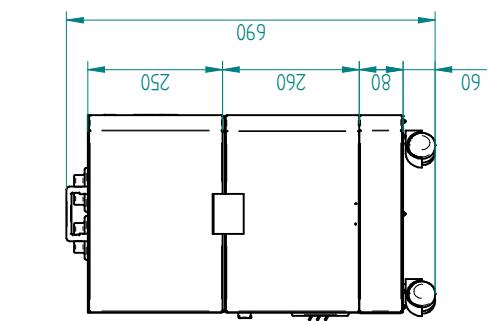
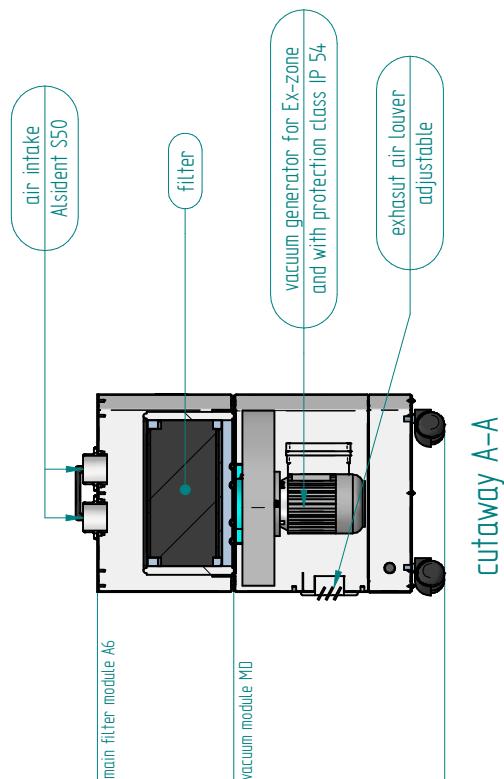
**Storage filter system**

Filters which are replaced once they are saturated.

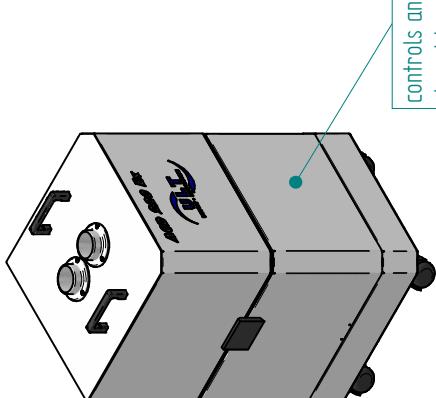
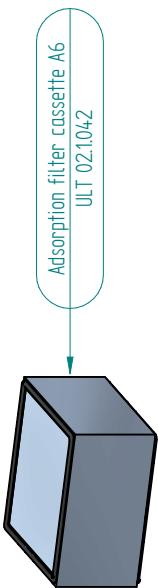
**Filtration set complete:**(1) **gas filtration**

Adsorption filter cassette A6  
(6 kg activated charcoal)

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



filter set consisting of:

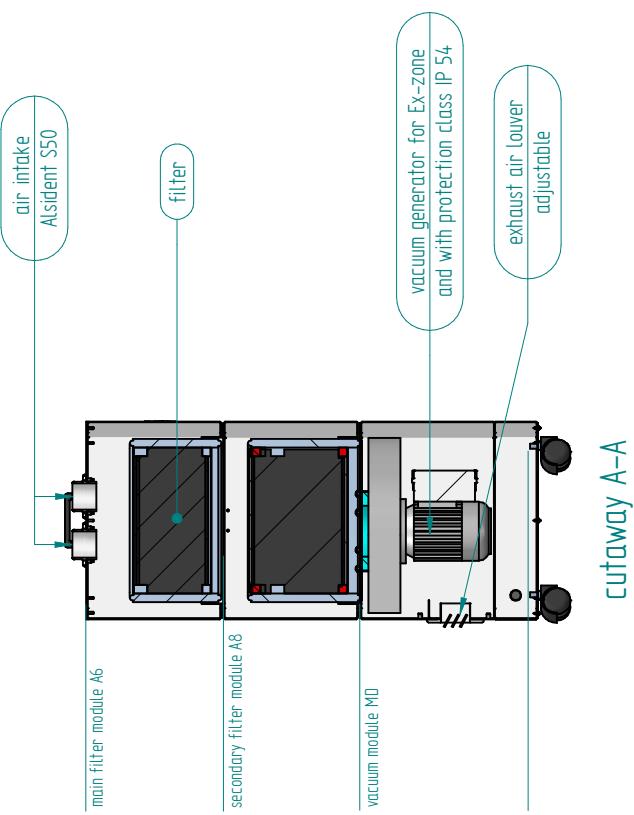


controls and displays are placed in a remote control unit outside the hazardous zone

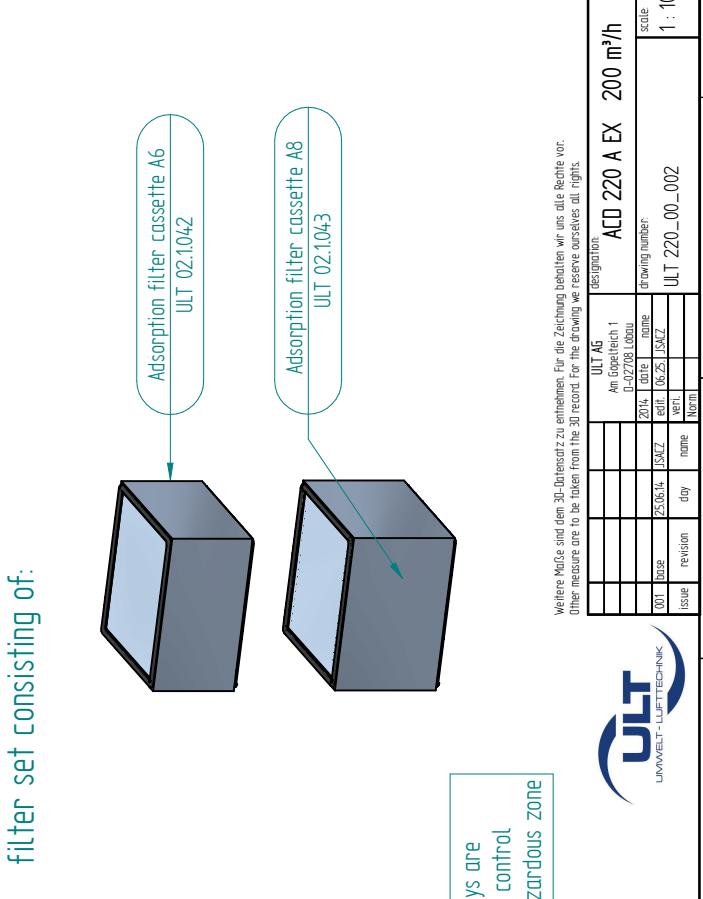
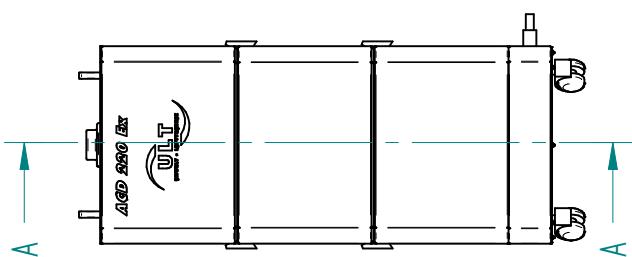
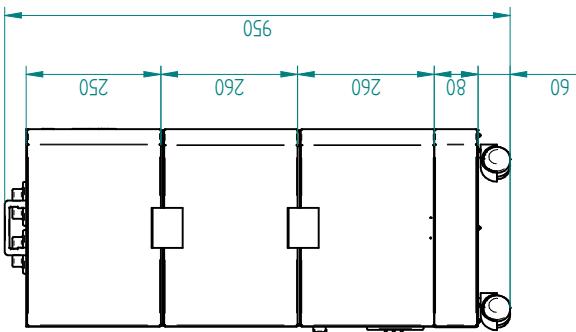
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Other measures are to be taken from the 3D model. For the drawing we reserve ourselves all rights.



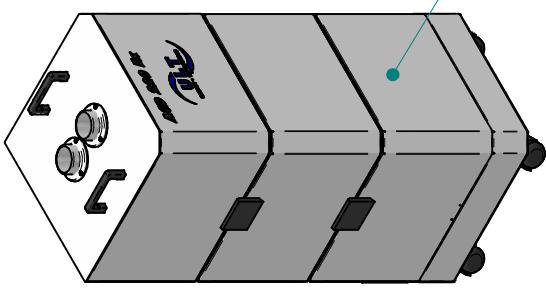
ULT 220 EX 200 m³/h		scale 1 : 10	
ULT A6	ULT A6	date	name
01/15	01/15	drawn	
Issue	Issue	edt.	
Base	Base	verf.	
revision	revision	day	name
			Norm



cutaway A-A



filter set consisting of:



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ULT 220 A EX 200 m³/h			
designation:			
ULT A6	ULT A6	Alt Geräteart 1	
		0-0708-0000	
001	Issue	2015	date
		25.05.14	name
		IS/CE	drawing number
			ULT 220_00_002
	revision	day	name
			vert.
			Norm



scale  
1 : 10