

ACD 400
Technical documentation
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ULT 400



**Clean air,
high performance.**

**ACD-series, mobile
air extraction and
filtration units for
gases, fumes and
odours.**



Air handling equipment for environmental and health protection

Technical documentation

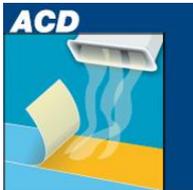
Air extraction and filtration unit



ACD 400

Use and application

The **ACD 400** is suitable for the extraction and filtration of gases, vapours and odours in non-explosive air mixtures. Hazardous **fumes and gases** ought to be extracted by collecting elements directly at their place of origin and can be filtered by the ACD 400. The filter combination with a large amount of activated carbon guarantees a high deposition rate of unhealthy gases and vapours. The thick layer of activated carbon enables a long contact time with the contaminated air flow. The gases and fumes are adsorbed effectively.



gases, fumes and odours

Examples

- ⇒ sticking, pretreat
- ⇒ varnishing, imprinting
- ⇒ cleaning, laminating
- ⇒ casting

ULT 400 mobile air extraction and filtration unit

mobile unit,
with storage filter system
robust steel housing, powder coated
RAL 7035 light grey / RAL 5017 traffic blue

Filter system:

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

Filter technology:

Main filter module

- (1) filter mat M5
filter class: M5 medium dust filter according to DIN EN 779
- (2) Adsorption filter cassette A14
filter medium: activated carbon (14 kg)
- (3) Adsorption filter cassette A14
filter medium: activated carbon (14 kg)



Technical documentation

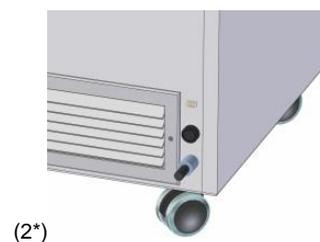
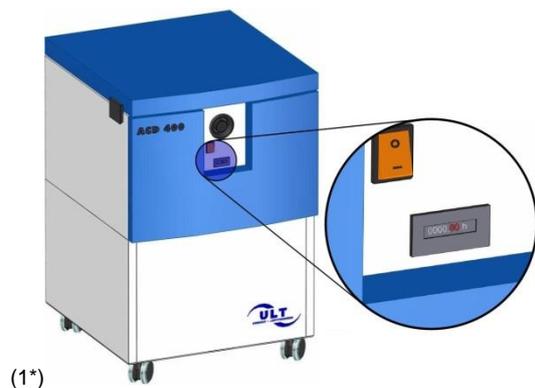
Air extraction and filtration unit



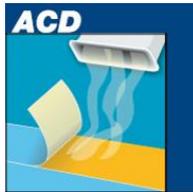
ACD 400

technical Data

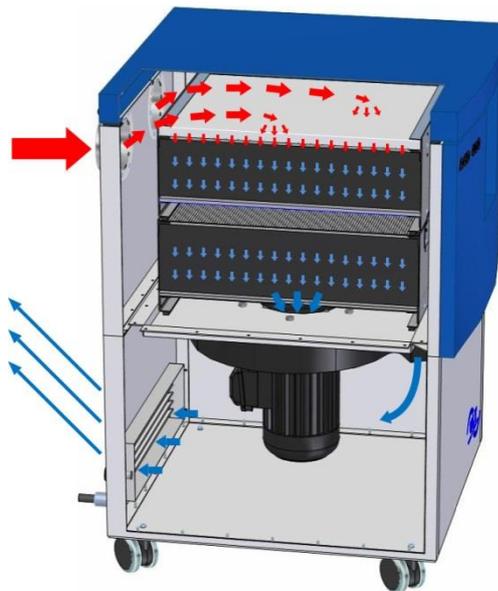
Parameter	unit	MD.17	
Max. air flow	m ³ /h	1.000	
Max. vacuum	Pa	2.600	
Nominal capacity	m ³ /h / Pa	400 / 2.300	
Motor-nominal power	kW	0,70	
Nominal voltage	V	230	
Nominal current	A	3,5	
Frequency	Hz	50 / 60	
Protection class	IP	54	
Type blower		EC-blower	
Noise level (at 50 - 100%)	dB(A)	< 60	
Weight	kgs	ca. 105	
Air flow controller		yes	
Operating hours counter	(1*)	optional	
SUB D9 interface	(2*)	optional	
Remote digital control		optional	
Air intake		2x Ø 100 mm take off, optional further Ø	
	position	upper backside of the unit	
	optional position	2x Ø 100 mm take off, optional further Ø on top of the unit	
Air outlet		air exhaust louver	
	position	lower rear side	
Width	mm	600	
Depth	mm	660	
Height	mm	900	
Length of power cable	m	5	
Filter system		filter system: storage filter	
		filter set consisting of:	
	(1)	Filter mat M5	ULT 02.0.012
	(2)	Adsorption filter cassette A14	ULT 02.1.025
	(3)	Adsorption filter cassette A14	ULT 02.1.044



ACD 400



gases, fumes and odours



-  raw gas
-  filtration
-  clean gas

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 by some units. Thus, the polluted air will be reliably extracted.

The medium sized **particles** are separated and held back at the first filtration level by a filter mat. **Gaseous air pollutants, odours and fumes** are separated (adsorbed) in the activated carbon filter.

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

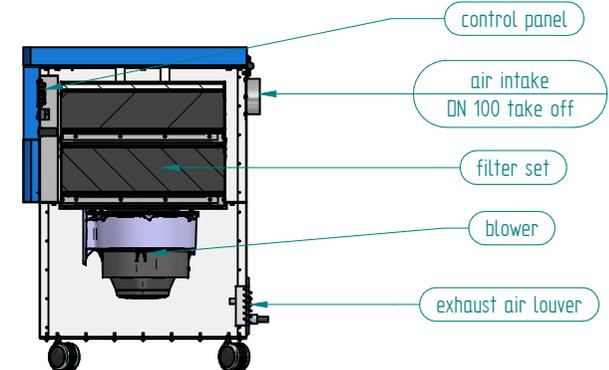
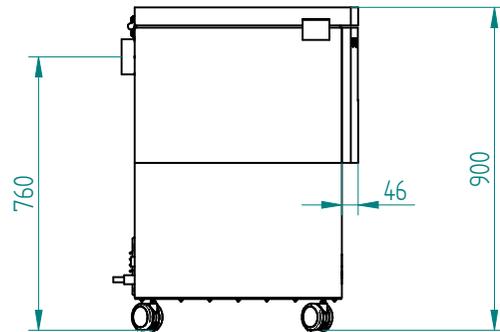
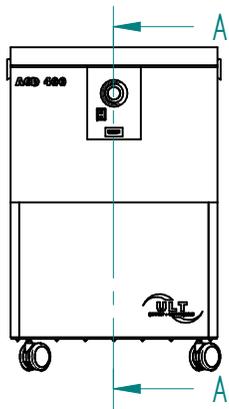
Storage filter system

Filters which are replaced once they are saturated.

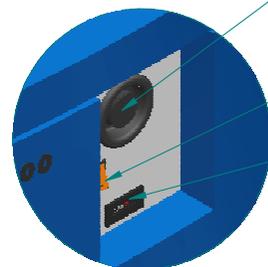
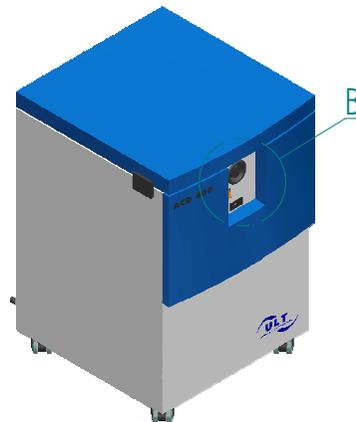
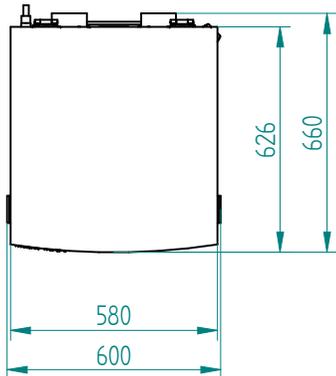
Filtration set complete

- | | |
|-----------------------------|--|
| (1) fine dust filter | Filter mat M5 |
| (2) gas filtration | Adsorption filter cassette A14
(14 kg activated carbon) |
| (3) gas filtration | Adsorption filter cassette A14
(14 kg activated carbon) |

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

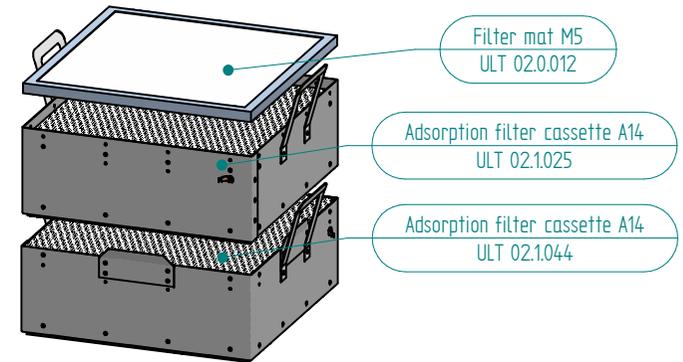


cutaway A-A



DETAIL B

filter set consisting of:



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				ULT AG Am Gopelreich 1 D-02708 Lobau		designation ACD 400	
				2013	date	name	
				edit.	22.05.	JSACZ	
001	base	22.05.13	JSACZ	verf.		drawing number: ULT 400_00_002_001	
issue	revision	day	name	Norm		scale: 1 : 15	

