

# **ACD 1200 MD A28**

**Technical documentation**

Date of issue: 02/2013



# **ULT 1200**



**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 1200 MD A28

### Use and application

The **ACD 1200 MD A28** 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 filtered by the ACD 1200 MD A28. The filter combination with a large amount of activated charcoal guarantees a high deposition rate of unhealthy gases and vapours. The thick layer of activated charcoal enables a long contact time with the contaminated air flow. The gases and fumes are adsorbed effectively.



*gases, fumes and odours*

### Example

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

### ULT 1200 modular air extraction and filtration unit

mobile unit,  
with storage filter system  
robust steel housing, powder coated  
RAL 7035 light grey / RAL 7001 silver-grey



### Filter system:

Storage filter system

Filters which are replaced once they are saturated.

### Filter technology:

Main filter module

- (1) Z-Line filter  
filter class: G4 coarse dust filter according to DIN EN 779
- (2) Adsorption filter cassette A12  
filter medium: activated charcoal (12 kg)
- (3) Adsorption filter cassette A16  
filter medium: activated charcoal (16 kg)

# Technical documentation

## Air extraction and filtration unit



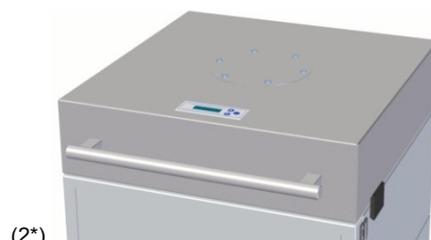
# ACD 1200 MD A28

## ACD 1200.0-MD.bb.cc.1010

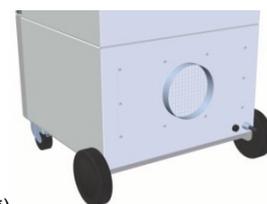
Parameter	unit	-MD.17.01.	-MD.18.01.	-MD.80.15.
Max. air flow	m³/h	1.000	1.500	1.490
Max. vacuum	Pa	2.600	3.250	1.800
Nominal capacity	m³/h / Pa	600 / 1.800	1.000 / 1.700	800 / 1.300
Motor-nominal power	kW	0,70	0,86	0,75
Nominal voltage	V	1~ 230	1~ 230	1~ 230
Nominal current	A	3,5	4,8	4,77
Frequency	Hz	50 / 60	50 / 60	50
Protection class	IP	54	54	54
Type blower		blower	blower	ventilator
Noise level (at 50 - 100%)	dB(A)	64	60	72
Air flow controller		yes	yes	no
Minimum volume flow rate indicator		no	no	yes
Operating hours counter		no	no	yes
SUB D9 interface	(1*)	optional	optional	optional
Digital control integrated	(2*)	optional	optional	no
Remote digital control		optional	optional	no
Air outlet DN 200	(3*)	optional	optional	optional
Air intake options		1x Ø 150 mm take off		
	position	backside of the unit		
		1x Ø 160 mm take off		
Air outlet		air exhaust louver		
	position	lower rear side		
Width	mm	790		
Depth	mm	820		
Height	mm	1.040		
Weight	kgs	ca. 155		
Length of power cable	m	5		
<b>Filter system</b>		filter system: storage filter		
		filter set consisting of:		
	(1)	Z-Line filter G4		ULT 02.0.662
	(2)	Adsorption filter cassette A12		ULT 02.1.609
(3)	Adsorption filter cassette A16		ULT 02.1.606	



(1\*)



(2\*)

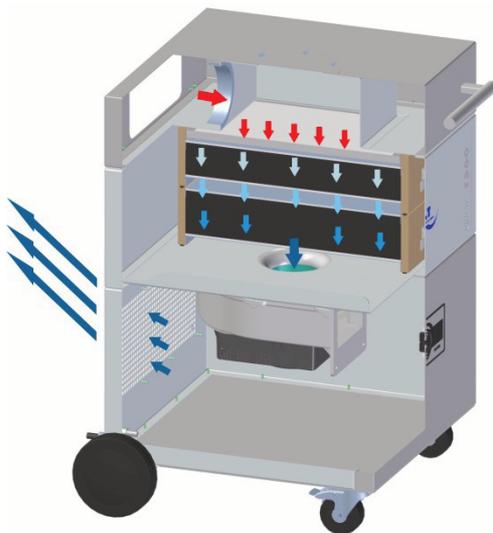


(3\*)

## ACD 1200 MD A28



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 coarse **particles** are separated and held back at the first filtration level with the Z-line filter. **Gaseous air pollutants, odours and fumes** are separated (adsorbed) in the activated charcoal filter.

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.

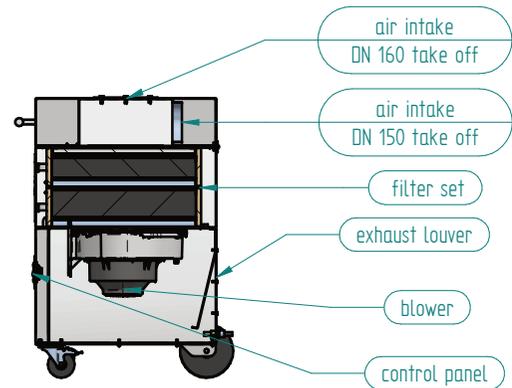
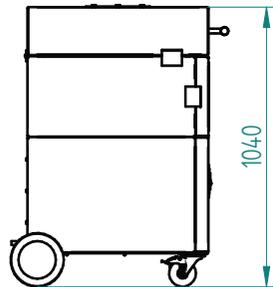
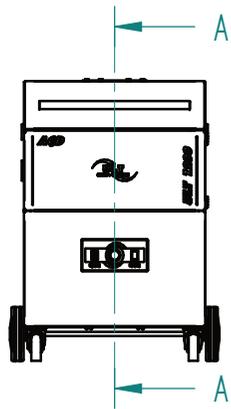
Storage filter system

Filters which are replaced once they are saturated.

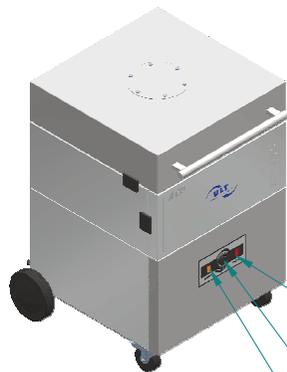
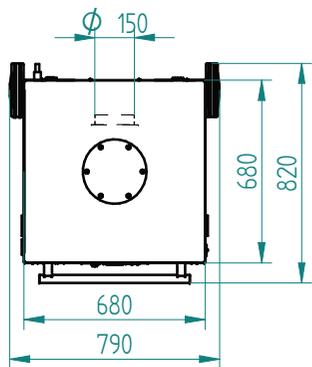
Filtration set complete:

- |                               |  |
|-------------------------------|--|
| (1) <b>coarse dust filter</b> | Z-Line filter G4   |
| (2) <b>gas filtration</b>     | Adsorption filter cassette A12<br>(12 kg activated charcoal) |
| (3) <b>gas filtration</b>     | Adsorption filter cassette A16<br>(16 kg activated charcoal) |

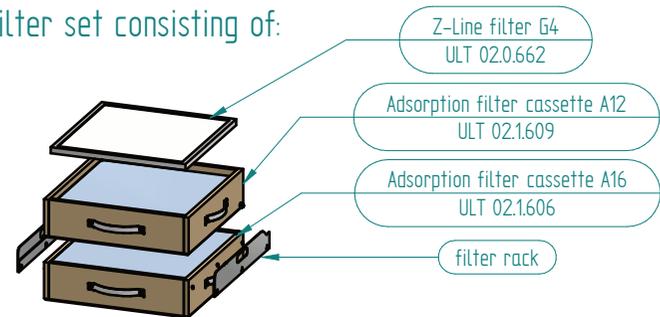
This excellent filter efficiency makes it possible to recirculate the **filtered air** and reduce energy costs.



cutaway A-A



filter set consisting of:



Weitere Maße sind dem 3D-Datensatz zu entnehmen. Für die Zeichnung behalten wir uns alle Rechte vor.  
Other measure are to be taken from the 3D record. For the drawing we reserve ourselves all rights.



				ULT AG Am Gopelreich 1 D-02708 Lobau		designation ACD 1200 MD A28	
2013		date		name		drawing number:	
13.02.13		13.02.		JSACZ		ULT 1200_00_105_001	
001		base		issue		scale:	
13.02.13		day		name		1 : 20	
JSACZ		edit.		verf.			
Norm							