ASD200.x-09

(ULT200-UM.x-HFM010)
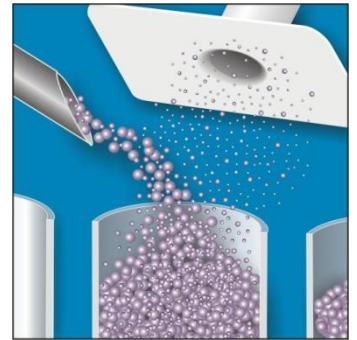*Technical Documentation*
Date of issue: 07 / 2010

ULT
UMWELT - LUFTTECHNIK

ULT 200
Modular system

clean air,
strong performance

ASD-series,
modular air
extraction and
filtration units for
dust and smoke

ULT 200

ULT
UMWELT - LUFTTECHNIK

POWER   FILTER

Air handling equipment for environmental and health protection

Technical documentation
Air extraction and filtration unit

ASD200.x-09 ULT200-UM.x-HFM010

Use and application

The **ASD200** 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 places of origin and be filtered by the ASD200. The combination of the filter stages ensures an effective filtering of the different particle fractions of the dust. Changing the separately filter stages guarantees a longer lifetime for the filters. The precipitation rate of dust is significantly higher than 99 %.
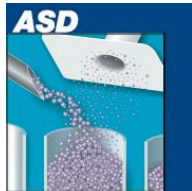
smoke and dusk

Examples

- ⇨ engraving
- ⇨ polishing
- ⇨ abrading
- ⇨ restore / cleaning of works of arts

ULT 200 modular air extraction and filtration unit

mobile unit,
with vacuum and filter modules and cartridge filter system
robust steel housing, powder coated
- filter module RAL 7035, silver grey
- vacuum generator module RAL 7001, light grey

Filter system:

Storage filter system,
filters which are replaced once they are saturated.

Filter technology:

(1) Z-line dust pre-filter
    filter class   G4   coarse dust filter according to Din EN 779
(2) filter mat
    filter class   F5   fine dust filter, according to DIN EN 779
(3) HEPA filter
    filter class   H13   HEPA filter, according to DIN EN 1822

Components:

Air flow controller
    stepless adjustment for the suction power,
Loaded particle filter indicator
    optical signal shows the paticle filter condition,
Interface SUB D9
    standard facilities or optional (depending on the module type)
    remote ON/OFF; filter loading 100%; operation status

vacuum module:

High perfomance blower and turbines with maintenance-free EC-technology
and a turbine with collector in the module UM200.6.

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Technical documentation
Air extraction and filtration unit

ASD200.x-09 ULT200-UM.x-HFM010

ULT 200.x-HFM010		vacuum modules			
Parameter	unit	200.1-	200.2	200.5	200.6
max. air flow	m³/h	190	635	220	210
max. vacuum	Pa	3,200	3,200	22,000	22,000
nominal capacity	m³/h at Pa	80 / 1,900	120 / 2,700	120 / 12,000	120 / 13,000
	m³/h at Pa	120 / 1,200	250 / 2,200	200 / 3,500	200 / 3,000
motor nominal power	kW	0.15	0.4	1.3	1.2
nominal voltage	V	230	230	230	230
nominal current	A	1.0	2.2	11.0	6.0
frequency	Hz	50 / 60	50 / 60	50 / 60	50 / 60
protection class	IP	54	54	54	54
typ blower		EC-blower	EC-blower	EC-turbine	collector turbine
noise level (at 50 - 100%)	dB(A)	45 - 49	52 - 57	63 - 70	63 - 70
with sound absorber(at 50 - 100%)	dB(A)	45 - 48	50 - 54	60 - 67	60 - 66
air flow controller		incl.	incl.	incl.	incl.
loaded filter indicator		incl.	incl.	incl.	incl.
SUB D9 interface		incl. 200.1.-2 not incl. 200.1-1	incl.	incl.	incl. 200.6 not incl. 200.6-1
air intake	Ø	2x Ø 50 mm; optional: further Ø			
	position	on the top			
air outlet		air exhaust louver; optional: exhaust air connection			
	position	on the rear side of the vaccum module			
length	mm	390			
width	mm	400			
height	mm	610			
weight	kg	approx. 45			
length of power cable	m	3			
filter structure	HFM010	main filter module			
		filter system: storage filter			
		ULT200 Filter ASD-01 complete		ULT 02.1.510	
		(1) Z-line dust pre-filter		ULT 02.0.570	
		(2) pre-filter mat; F5-01		ULT 02.0.552	
		(3) particle filter H13		ULT 02.1.511	
additional options:					
sound absorber	(1)	changed depth: 550 mm			
exhaust air connection	(2)	1 x Ø 100 mm			
intake module 003	(3)	hose connection: 2x Ø 50mm; optional further Ø			
intake module 002	(4)	ALSIDENT-arm – direct mounting; 1x S50; optional further Ø			
mounting bracket for ALSIDENT-arm	(5)	Alsident-U-Profil S50/75; for max. 2 ALSIDENT extraction arms			

1 ●
2 ●
3 ●
4 ●
5 ●
5 ●

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Technical documentation
Air extraction and filtration unit

ASD200.x-09 ULT200-UM.x-HFM010
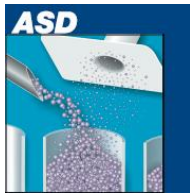
smoke and dust

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 separated and held back in a multi-stage saturation-type filtering system.

Main filter module HFM010

ULT 200 Filter ASD-01
(1) **coarse dust filter**   Z-line Dust pre-filter
(2) **fine dust filter**   filter mat F5
(3) **particle filter**   HEPA H13

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

Further additional options can be connected to the ASD200.x-09 unit. These are to be selected according to the respective requirements.

For the extraction and filtration from pollutants varying from this application case, other module combinations are available.
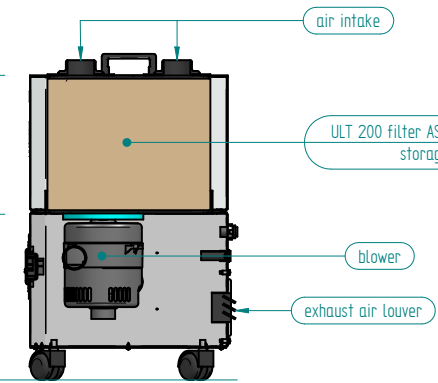
← raw gas

← filtration

← clean gas

date of issue: 07 / 2010

A

A

610
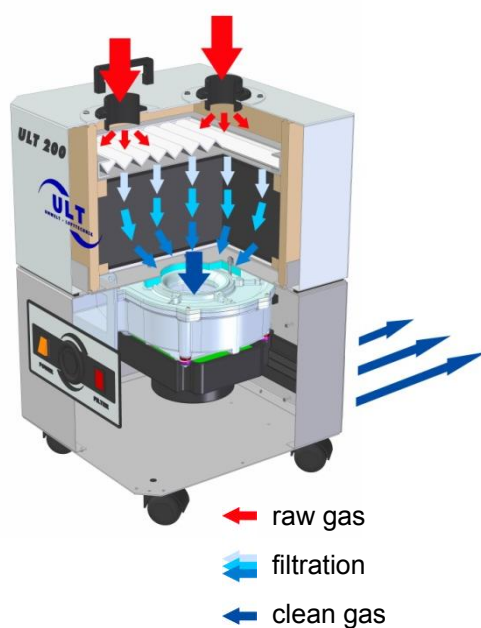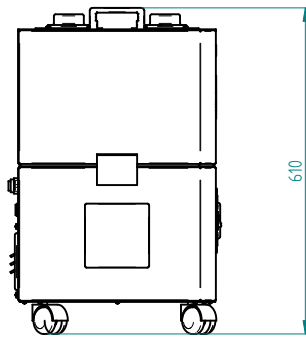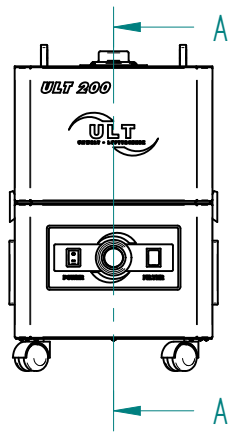
main filter module HFM010

vacuum module

air intake

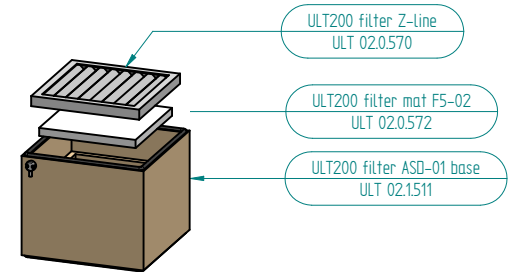ULT 200 filter ASD-01 complete ULT 02.1.510
storage filter element

blower

exhaust air louver

section A-A

individual components

ULT200 filter Z-line
ULT 02.0.570

ULT200 filter mat F5-02
ULT 02.0.572

ULT200 filter ASD-01 base
ULT 02.1.511

Ø 50
or Ø 75

400

370

390
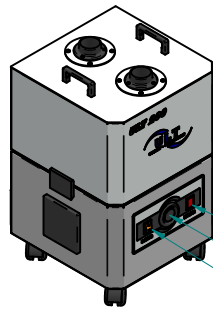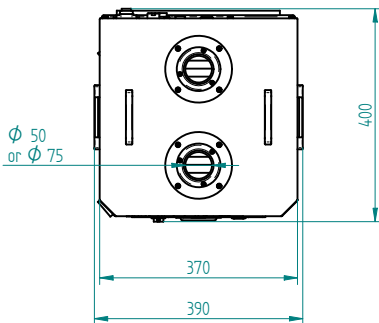
loaded partikel filter indicator

air flow controller

on/off switch

					ULT AG	Benennung:
					Am Göpelteich 1	ULT 200.x HFM010
					D-02708 Löbau	Gesamtzeichnung
				2010	Datum	Name	Zeichnungsnummer:		Maßstab:
				Bearb.	03.05	R.Schütze		
Aus-gabe	Änderung	Tag	Name	Gepr.			ULT 200_00_230_100	1 : 10
				Norm				