

SRA200.x-01

(ULT200-UM.x-HFM050)

Technical Documentation

Date of issue: 07 / 2010



ULT 200

Modular system



**clean air,
strong performance**

**SRA-series,
modular air
extraction and
filtration units for
welding fume**



Air handling equipment for environmental and health protection

Technical documentation

Air extraction and filtration unit



SRA200.x-01 ULT200-UM.x-HFM050

Use and application

The **SRA200** is suitable for collecting and filtering dry and non-combustible types welding smoke in not 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 SRA200. The material of the filter element ensures effective filtering out of the various dust particle sizes. Pneumatic cleaning of the main filter element by the counter flow principle guarantees very long main filter lifetimes.



welding fume

Examples

- ⇒ manual welding
- ⇒ MIG / MAG welding
- ⇒ TIG welding
- ⇒ gas welding

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:

cartridge filter system,
cleanable filter element for high pollutant emission

Filter technology:

(1) filter cartridge

filter material: polyester fibre with teflon-coating (PTFE)
filter class: class M, according to EN 60335-2-69
filter area: 1.1m²

Components:

air flow controller

stepless adjustment for the suction power,

Loaded particle filter indicator

optical signal shows the particle 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 performance blower and turbines with maintenance-free EC-technology
and a turbine with collector in the module UM200.6.

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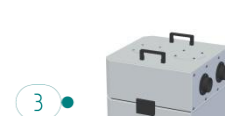
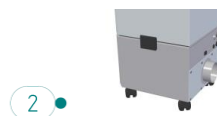
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Air extraction and filtration unit



SRA200.x-01 ULT200-UM.x-HFM050

ULT 200.x-HFM050		vacuum modules		
parameters	unit	LAS200.2	LAS200.5	LAS200.6
max. air flow	m³/h	635	220	210
max. vacuum	Pa	3,200	22,000	22,000
nominal capacity	m³/h at Pa	120 / 2,700	120 / 12,000	120 / 13,000
	m³/h at Pa	250 / 2,200	200 / 3,500	200 / 3,000
motor nominal power	kW	0.4	1.3	1.2
nominal voltage	V	230	230	230
nominal current	A	2.2	11.0	6.0
frequency	Hz	50 / 60	50 / 60	50 / 60
protection class	IP	54	54	54
typ blower		EC-blower	EC-turbine	collector turbine
noise level (at 50 - 100%)	dB(A)	52 - 57	63 - 70	63 - 70
with sound absorber (at 50 - 100%)	dB(A)	50 - 54	60 - 67	60 - 66
air flow controller		incl.	incl.	incl.
loaded filter indicator		incl.	incl.	incl.
SUB D9 interface		incl.	incl.	incl.
air intake	Ø	2x Ø 50 mm; optional: further Ø		
	position	at the side		
air outlet		air exhaust louver; optional: exhaust air connection		
	position	on the rear side of the vacuum module		
length	mm	440		
width	mm	460		
height	mm	830		
weight	kg	approx. 50.0		
length of power cable	m	3		
filter structur	HFM050	main filter module		
		filter system: cartridge filter, automatic cleaning by compressed air (1) cartridge filter; 1 pcs ULT 02.1.579		
additional options:				
sound absorber	(1)	changed depth: 590 mm		
exhaust air connection	(2)	1 x Ø 100 mm		
intake module 003	(3)	hose connection: 2x Ø 50mm; optional further Ø		



date of issue: 05 / 2010

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welding fume

Functional principle:

At the clean-air side of the filter cartridge, a vacuum generator with a maintenance-free EC drive and 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 pollutant-laden air will be reliably extracted.

The **particles** are separated on a **filter cartridge** (Teflon (PTFE) coated polyester fibre) by the **surface filtration** principle. Clogged filter cartridges are **automatically and individually treated** on the basis of the **counter flow compressed-air pulse jet cleaning** principle. Operating such system requires compressed-air supply (4 – 5 bar). The **particles blown off** fall into a collecting drawer provided for the removal and disposal of the filter deposits.

Main filter module HFM050

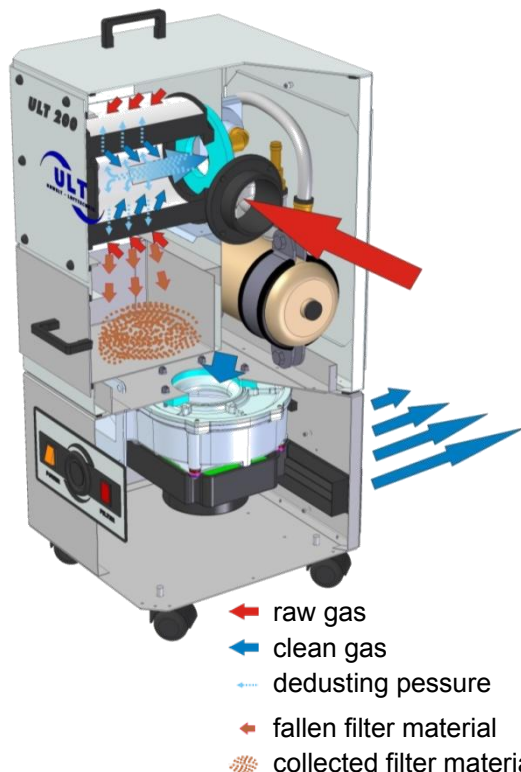
ULT 200 Filter cartridge

(1) **dust-filter** cartridge filter

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

Further additional options can be connected to the SRA200.x-01 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.



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