Technical documentation

series 1200
SRA 1200 MD 2Pa

Date of issue: 02/2016

LASER FUMES

DUST AND SMOKE

SOLDERING FUMES

ODORS, GASES, AND VAPORS

CLEANING INDUSTRIAL GASES

NEW EMISSIONS

WELDING FUMES

OIL AND EMULSION MISTS

COMPLETE SOLUTIONS

ULT
UMWELT - LUFTTECHNIK

Extraction. Filtration. Persistence.

Technical documentation

SRA 1200 MD 2Pa

WELDING FUMES

Use and application

The **SRA 1200 MD 2Pa** is suitable for collecting and filtering dry and non-combustible welding fume in non-explosive air mixtures. Any emitted and partially unhealthy **types of dust** produced during welding ought to be extracted by collecting elements directly at their place of origin and filtered by the SRA 1200 MD 2Pa. The material of the filter elements ensures effective filtering out of the various dust particle sizes. Regular **automatic pneumatic cleaning** cycles of the cartridge filters guarantee very long main filter lifetimes. When the differential pressure over the cartridge filters gets too high the filters are cleaned off by the cross flow principle. Optional secondary filters can be integrated and raise the separation efficiency.

Examples

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

ULT 1200 mobile extraction and filtration unit

- mobile unit with castors
- with filter replacement system
- cartridge filter system with automatic cleaning, accessible from the front
- 30 l dust collecting drawer, accessible from the back
- control elements located at the front side
- robust steel housing
- powder coated
  - RAL 7001 silver grey, RAL 7035 light grey

Filter system:

Cartridge filter system
automatically cleanable filter element for high pollutant emission

Filter technology:

filter cartridges:	2 pieces
filter material:	polyester fibre
filter class:	BIA M, separation efficiency > 99% [with particles 1 µm]
Filterfläche:	2 x 4,5 m^2

Control elements

Loaded particle filter indicator:	acoustic signal when filters are saturated
Operating hours counter:	recording the machine run time
Option: Interface SUB D9:	remote ON/OFF, operation status, filter saturation 100%

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WELDING FUMES

SRA 1200.0-MD.bb.cc.4002

Parameter	unit	-MD.45.14.		-MD.80.14.		-MD.81.14.	
Max. air flow	m³ / h	1.700		1.490		1.660	
Max. vacuum	Pa	2.600		1.800		2.400	
Nominal capacity	m³/h @ Pa	1.000 / 1.800		800 / 1.300		1.000 / 1.800	
Motor-nominal power	kW	1,50		0,75		1,50	
Nominal voltage	V	3~ 400		1~ 230		1~ 230	
Nominal current	A	3,5		4,77		8,75	
Frequency	Hz	50		50		50	
Protection class	IP	54		54		54	
Type blower		ventilator		ventilator		ventilator	
Noise level	dB(A)	62		72		72	
Loaded particle filter indicator	acoustic	yes		yes		yes	
Operating hours counter		yes		yes		yes	
SUB D9 interface	(1*)	optional		optional		optional	
Air outlet DN 200	(2*)	optional		optional		optional	
Air intake options		nozzle	arm (3,3m)	nozzle	arm (3,3m)	nozzle	arm (3,3m)
	number	2	2	1	1	2	2
	Ø	160 mm					
	position	on top of the unit					
Air outlet		air exhaust louver					
	position	lower rear side					
Width	mm	790					
Depth	mm	820					
Height	mm	1.240					
Weight	kg	ca. 175					
Length of power cable	m	5,0					
Filter system		filter system: cartridge filter, automatic cleaning					
		filter cartridges - set of 2 pcs polyester fibre 2 x 4,5 m² filter surface				ULT 02.1.680	
Teflon coated filter cartridges		**optional**				ULT 02.1.681	
Particle filter cassette H13*	Opt. 09	**optional**				ULT 02.1.633	
Adsorption filter cassette A8 (charcoal)*	Opt. 08	**optional**				ULT 02.1.604	
* only one filter useable							

(1*)

(2*)

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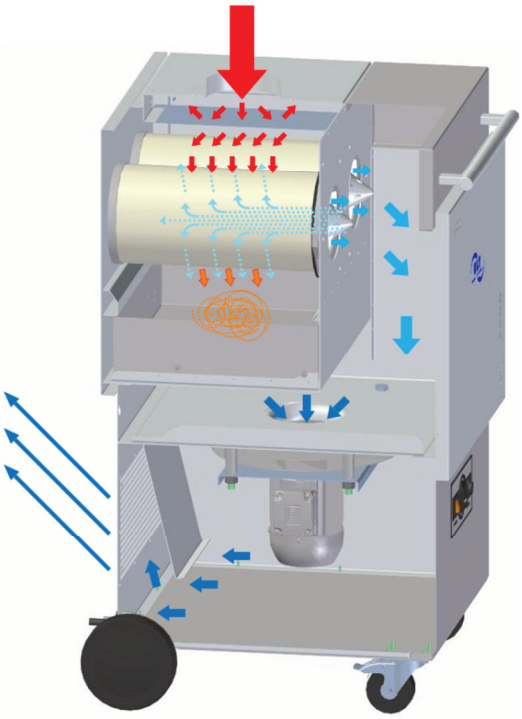
Technical documentation

SRA 1200 MD 2Pa

WELDING FUMES



raw gas
clean gas
dedusting pressure
detached filter material
collected filter material

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 **dust particle fractions** are captured directly at the place of their origin by appropriate collecting elements and an applicable extraction arm or hose carries them to the filter elements. To prevent the filter elements from burning a baffle plate is positioned at the air intake holding back sparks.

The **particles** are separated and held back on two **filter cartridges** (polyester fibre) by the **surface filtration principle**. Clogged filter cartridges are automatically and individually treated on the basis of the **counter flow cleaning principle**. After reaching a set differential pressure the filter cartridges are cleaned with 4 – 5 bar compressed air. The **particles blown off** fall into a collecting drawer provided for the removal and disposal of the filter deposits.

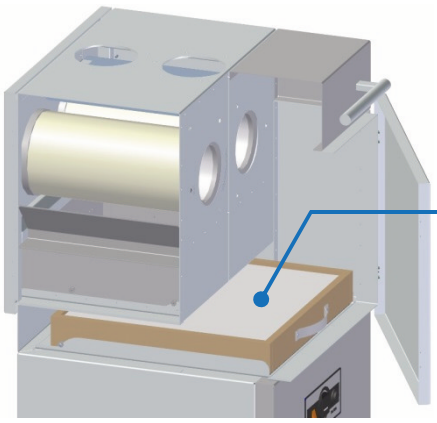
Cartridge filter system

automatically cleanable filter elements for high pollutant emission

Filtration set complete ULT 02.1.680:

(1)	**particulate filter**	2 filter cartridges BIA M, separation efficiency > 99% with particles 1 µm

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



Optional filter elements:

front side shelf for secondary filter:

Particle filter cassette H13, HEPA filter according to DIN EN 1822

or

Adsorption filter cassette A8 (8 kg activated carbon)

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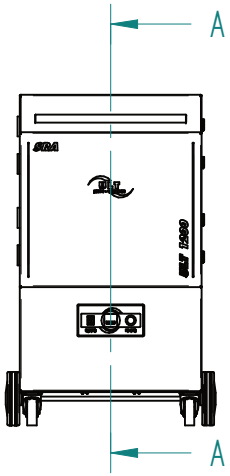
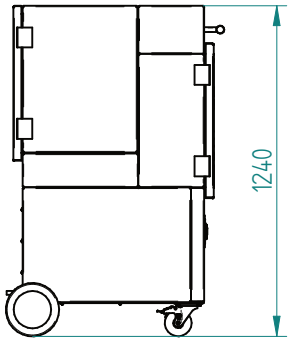
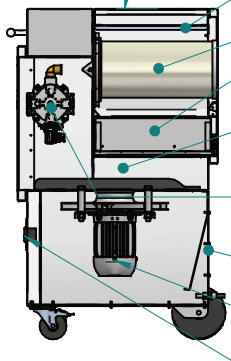
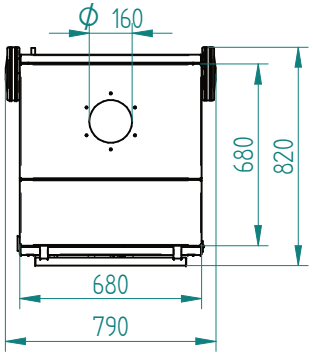


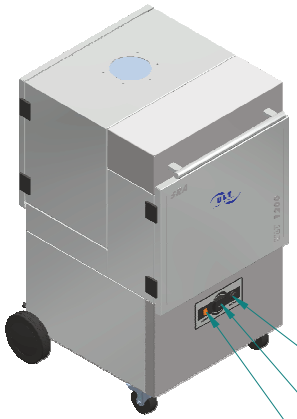




air intake 1 x DN 160 for version 80.14
air intake 2 x DN 160 for version 81.14 & 45.14
baffle plate
filter set
dust collecting drawer
shelf for optional filter cassette
clean gas area
automatic pneumatic cleaning
exhaust louver
blower
control panel

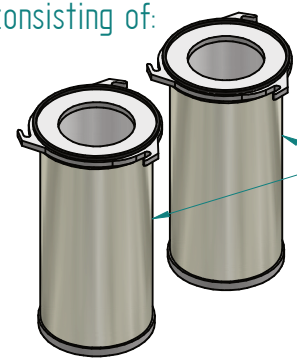
cutaway A-A





loaded particle filter indicator
operating hours counter
on/off switch

filter set consisting of:



Filter cartridges Polyester
ULT 02.1.680

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issue	revision	day	name
001	base	14.02.13	JSACZ

	date	name
2013		
edit.	14.02.	JSACZ
veri.		
Norm		

designation: SRA 1200 MD 2Pa
drawing number: ULT 1200_00_114 _001
scale: 1 : 20