series 1200
SRA 1200 MD K

LASER
FUMES

DUST AND
SMOKE

SOLDERING
FUMES

ODORS,
GASES, AND
VAPORS

CLEANING
INDUSTRIAL
GASES

NEW
EMISSIONS

**WELDING
FUMES**

OIL AND
EMULSION
MISTS

COMPLETE
SOLUTIONS

Date of issue: 02/2016

ULT
UMWELT-LUFTTECHNIK

Extraction. Filtration. Persistence.

# SRA 1200 MD K

WELDING FUMES

Use and application

The **SRA 1200 MD K** is suitable for collecting and filtering dry and non-combustible welding smoke 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 K. The combination of a G4 filter mat and a F9 particle filter guarantees a high separation efficiency of the unhealthy dust fractions. This guarantees a separation efficiency of > 99,95 %. With an optional addition of 8 kgs activated carbon welding gases and fumes can also be extracted.

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

➡ easy filter handling, access through front door

➡ control elements located at the front side

➡ robust steel housing

➡ powder coated
  ▪ RAL 7001 silver grey, RAL 7035 light grey
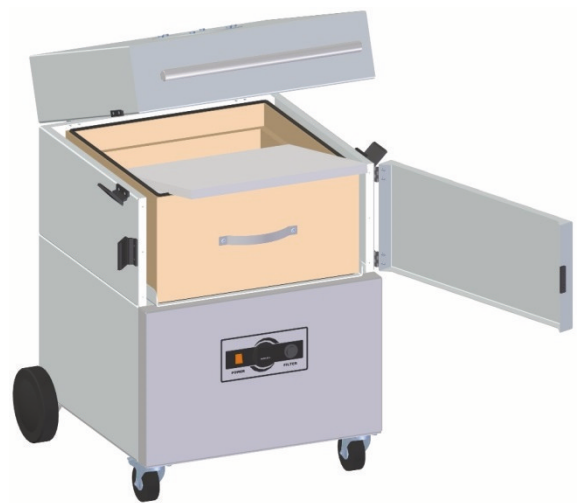
Filter system:

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

Filter technology:

(1) Filter mat G4
    filter class: G4 coarse dust filter according to DIN EN 779

(2) Particle filter cassette F9
    filter class: F9 fine dust filter according to DIN EN 779

Control elements

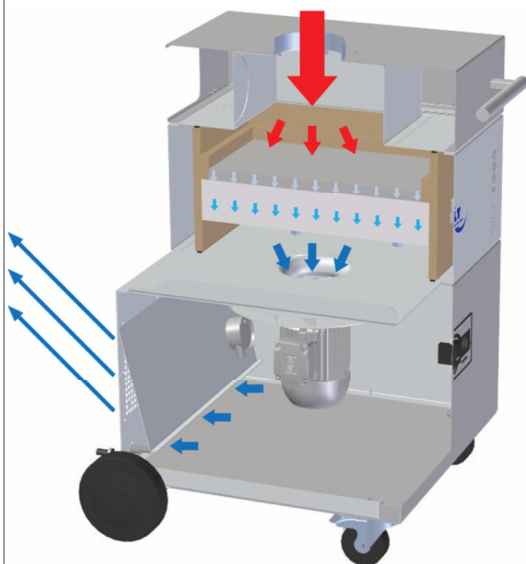|	
Loaded particle filter indicator:	acoustic signal when filters are saturated
Operating hours counter:	recording the machine run time
Option: Interface SUB D9:	remote ON/OFF, operation status, filter saturation 100%

SRA 1200 MD K

WELDING FUMES

SRA 1200.0-MD.bb.cc.3006

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					
	nozzle	1x Ø 150 mm take off					
	position	backside of the unit					
Air outlet		air exhaust louver					
	position	lower rear side					
Width	mm	790					
Depth	mm	820					
Height	mm	1.040					
Weight	kg	ca. 140					
Length of power cable	m	5,0					
Filter system		filter system: storage filter					
		Particle filter cassette complete consisting of:				ULT 02.1.630	
	(1)	Filter mat G4				ULT 02.0.650	
	(2)	Particle filter cassette F9				ULT 02.1.631	
Spark protection (expanded metal filter)		**optional**				ULT 02.0.676	
Filter cassette with activated carbon		**optional**				ULT 02.1.632	

(1*)   (2*)

SRA 1200 MD K

WELDING FUMES

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.

The **particles** are separated and held back in two stages by a storage filter system. Those filters have to be replaced once they are saturated.

← raw gas
← filtration
← clean gas

Storage filter system

Filters which are replaced once they are saturated.

Filtration set complete ULT 02.1.630:

(1) **coarse dust filter**   Filter mat G4
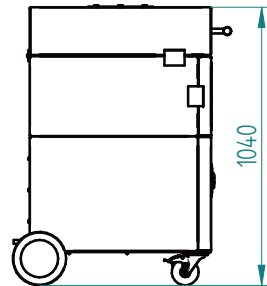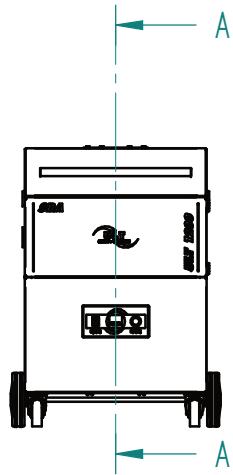
(2) **fine dust filter**   Particle filter cassette F9

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

Optional filter elements:
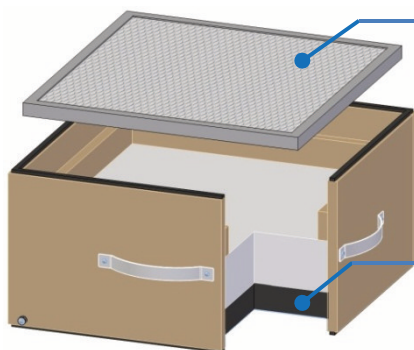
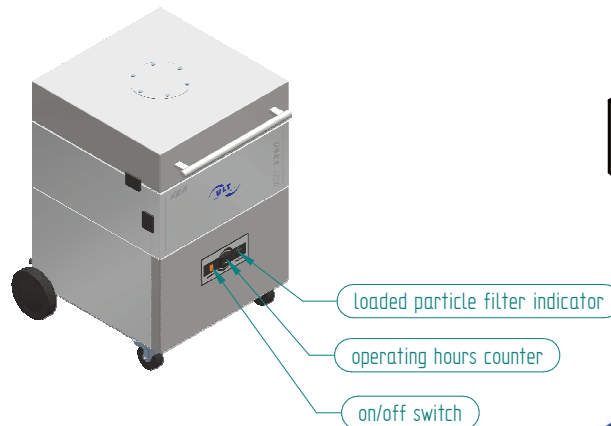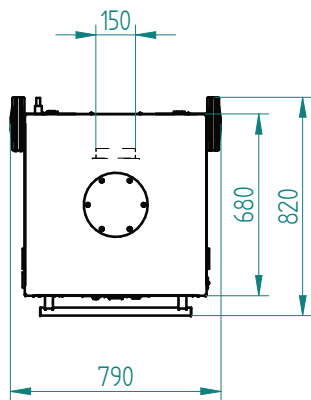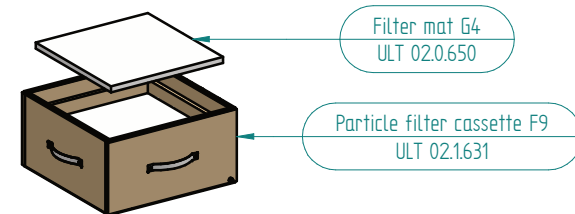spark protection:
Expanded metal filter ULT 02.0.676

Combined filter cassette F9A8:   ULT 02.1.632
with additional 8 kg
activated carbon

A

A

1040

cutaway A-A

air intake
DN 160 take off

air intake
DN 150 take off

filter set

exhaust louver

blower

control panel

filter consisting of:

Filter mat G4
ULT 02.0.650

Particle filter cassette F9
ULT 02.1.631

150

680

820

790

loaded particle filter indicator

operating hours counter

on/off switch