

### FILTERING UNITS AND DUST SEPARATORS

Type	DRY DUST	VISCOUS DUST	DUST AND GASES	DUST FROM LASER STEEL CUTTING	OIL MIST	MIST FROM SPRAY PAINTING	WOOD CHIPS AND COARSE DUST
<b>FOR WELDING FUMES</b>							
BIG-1000							
UFO-S							
RAK							
UFO-A-N							
ISKRA-10							
<b>FOR FINE DUST</b>							
STRONG-S							
PROTON							
WET-N							
UFO-LP							
<b>FOR FINE DUST AND GASES</b>							
HARD							
<b>FOR COARSE DUST</b>							
FPS							
<b>FOR OIL MIST</b>							
MISTOL-MIX							
<b>FOR EXPLOSIVE DUST</b>							
SMOG-FILTER/Ex							
WET-ALU/Ex							
<b>REGENERATOR FOR CARTRIDGE FILTERS</b>							
RFN							



# BIG-1000

ONE-POST FILTERING UNIT  
FOR DRY DUSTS



## APPLICATION

- cleaning the air from dust- and optionally gaseous pollutants
- irreplaceable in controlling the fine dust emissions, during the welding processes

## FEATURES

- high-efficiency cartridge filter of 99,9% filtration efficiency
- pneumatic filter regeneration system
- pressure control – monitoring the pollution degree state of the filter
- spark catcher
- hour-meter – indicating the work time

## ADVANTAGES

- high-efficiency filtration
- easy replaceable device (re-installing)
- large dust container (30 litres)
- automatic filter cleaning system – with impulses of compressed air
- possibility of use the carbon impregnated non-woven filter –for gas filtration
- total air recirculation

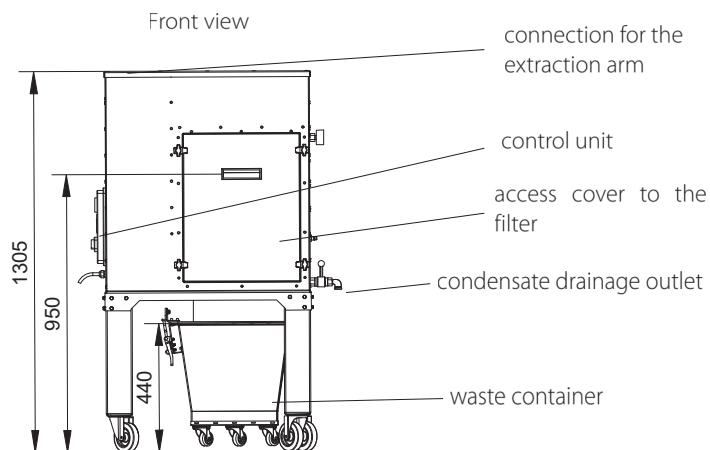
## TECHNICAL DATA

Type	Part No.	Version	Maximum volume flow [m <sup>3</sup> /h] <sup>1</sup>	Maximum vacuum [Pa]	Supply voltage [V]	Motor power [kW]	Acoustic pressure level [dB(A)] from distance:		Consumption of compressed air [Nm <sup>3</sup> /h]	Weight [kg]	Quantity of connections for ERGO LUX arms <sup>2</sup>
							1 m	5 m			
BIG-1000-R	804U49	mobile with recirculation	1500	2000	230	1,1	75	61	0,7	140	1

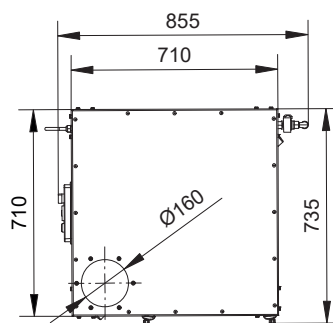
1. Volume flow has been specified at the clean filter.

2. Complete assortment of the extraction arms is represented on separate catalogue cards.

MOBILE VERSION BIG-1000-R



Top view



REPLACEABLE CARTRIDGE FILTER

	Type	Part No.	Weight [kg]	Filtration efficiency [%]	Quantity of filters
	PN125032T	800F26	4,2	99,9	1

ADDITIONAL EQUIPMENT

ACTIVATED CARBON IMPREGNATED NON-WOVEN FILTER

	Type	Part No.	Weight [kg]	Remarks
	FCR-BIG-1000	838F73	0,6	Complete filter: carbon non-woven, along with a protective net. All parts are placed in a cartridge filter.
	WFCR-BIG-1000	838W95	0,3	Carbon non-woven is a replaceable element of the filter.

# UFO-S

ONE-POST AND TWO-POST FILTERING UNIT  
FOR DRY DUSTS

## APPLICATION

- cleaning the air from dust- and gaseous pollutants, during various manufacturing processes
- irreplaceable in controlling the fine dust emissions, during the welding processes

## FEATURES

- high-efficiency cartridge filter of 99,9% filtration efficiency
- activated carbon impregnated non-woven filter
- pneumatic filter regeneration system
- spark catcher
- castor wheels for mobile version, or mounting brackets for wall-installed version

## ADVANTAGES

- high filtration efficiency
- choice: mobile version or wall-installed version
- automatic cleaning of the cartridge filter – with impulses of compressed air
- range: dust- and gas filtration



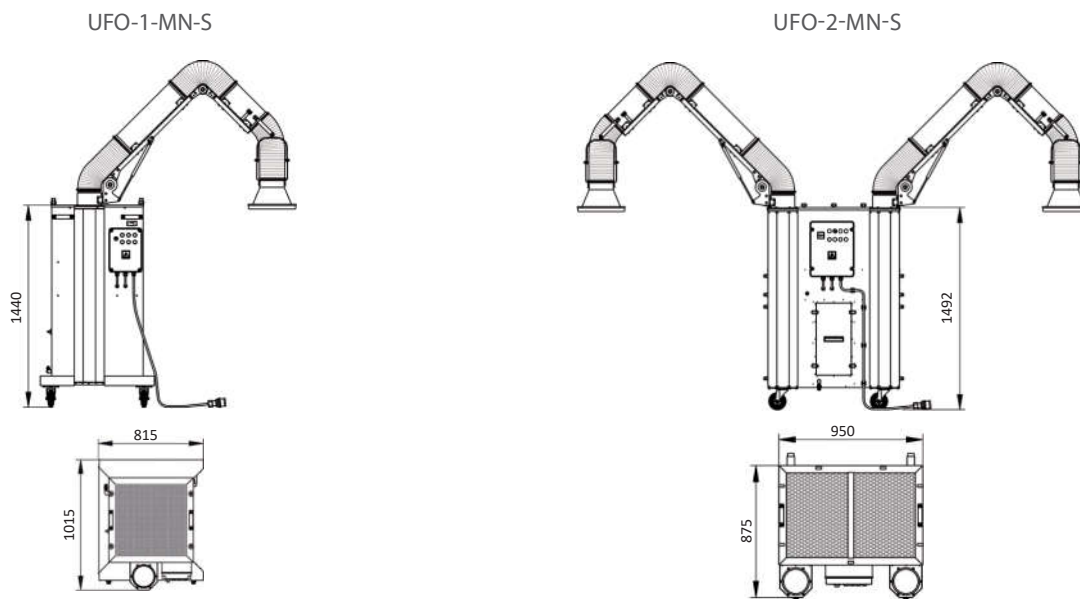
## TECHNICAL DATA

Type	Version	Part No.	Maximum volume flow [m <sup>3</sup> /h] <sup>1</sup>	Maximum vacuum [Pa]	Supply voltage [V]	Motor rate [kW]	Acoustic pressure level [dB(A)] from distance:		Consumption of compressed air [Nm <sup>3</sup> /h]	Weight [kg]	Quantity of connections for ERGO LUX arms <sup>2</sup>
							1 m	5 m			
UFO-1-MN-S	mobile	804U52	2000	2500	230	1,1	75	61	0,7	160	1
UFO-2-MN-S	mobile	804U54	3000	2600	3x400	2,2	74	60	1,4	209	2

1. Volume flow was measured at the clean filters.


2. Complete assortment of the extraction arms is represented in separate catalogue cards.

## MOBILE VERSION



## REPLACEABLE FILTERS

### CARTRIDGE FILTER

	Type	Part No.	Weight [kg]	Filtration efficiency [%]	Quantity of filters
	PN125032T	800F26	4,2	99,9	1 piece in UFO-1-S 2 pieces in UFO-2-S

Remark: As standard, the unit is equipped with filters type PN105032T.

### ACTIVATED CARBON IMPREGNATED NON-WOVEN FILTER

	Type	Part No.	Weight [kg]	Dimensions [mm]		Quantity of filters
				A	B	
WF-1-MH	838W27	0,3	610	610	1 piece in UFO-1-S	
WF-2-MH	838W26	0,6	486	844	2 pieces in UFO-2-S	

# RAK

ONE-POST AND TWO-POST FILTERING UNIT  
FOR VISCOUS DUSTS

## APPLICATION

- air cleaning from welding fumes
- application for short term use

## FEATURES

- two sorts of dust filters
- activated carbon impregnated non-woven filter
- hour-meter – indicating the work time
- pressure control – monitoring the pollution degree state of the filters
- spark catcher

## ADVANTAGES

- filtration of dry dusts and viscous dusts as well
- choice: mobile version or wall-installed version
- range: dust- and gas filtration
- choice: one-post or two-post version
- total air recirculation



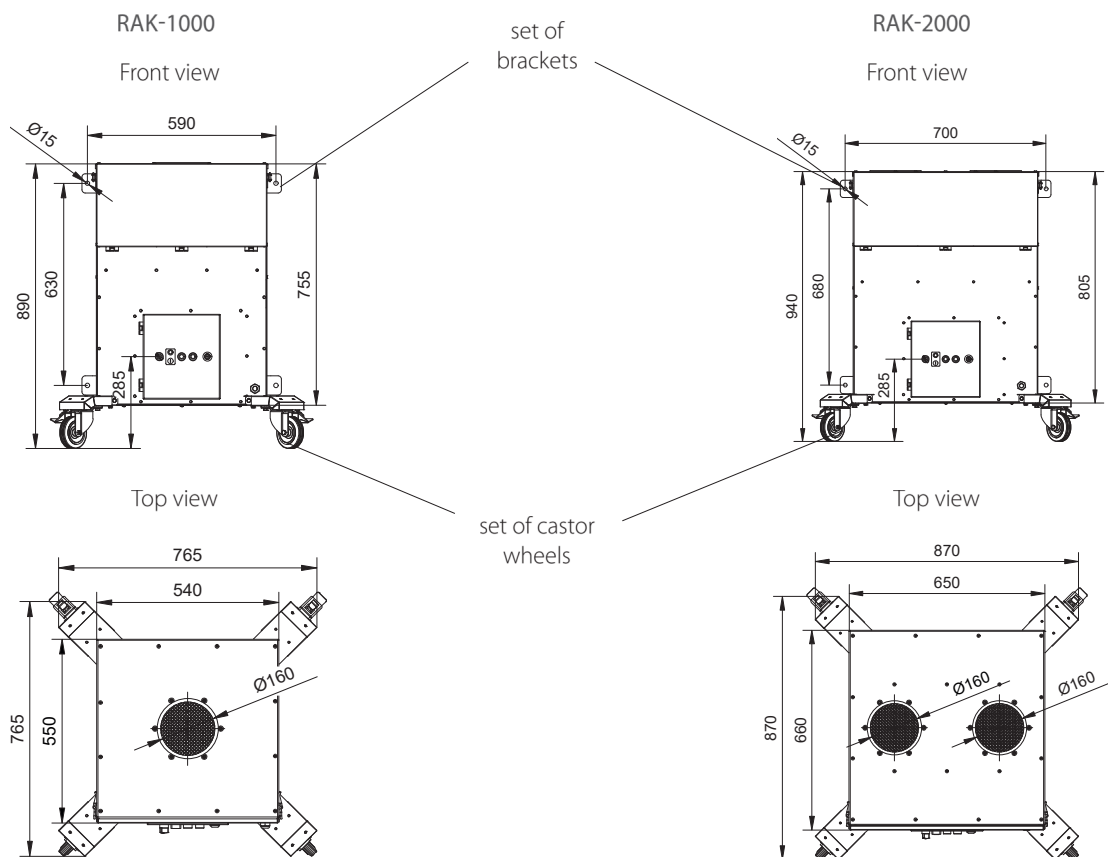
## TECHNICAL DATA

Type	Version	Part No.	Maximum volume flow [m <sup>3</sup> /h] <sup>1</sup>	Supply voltage [V]	Motor rate [kW]	Acoustic pressure level [dB(A)] from distance <sup>2</sup> :		Weight [kg]	Quantity of connections for ERGO LUX arms <sup>3</sup>
						1 m	5 m		
RAK-1000-R	with recirculation	800O42	1800	230	1,1	74	60	65	1
RAK-2000-R	with recirculation	800O44	2650	230	1,5	77	63	85	2

1. Volume flow was measured at the clean filters.

2. Values of acoustic pressure were given for the conditions of free field.


3. Complete assortment of the extraction arms is represented in separate catalogue cards.




NOTE: Broken line illustrates the elements of additional equipment.

**REPLACEABLE FILTERS**


**FILTRATION PAD**

	Type	Part No.	Weight [kg]	Dimensions [mm]	Class	Filtration efficiency [%]	Remarks
	FWR-1000	838W78	0,18	490x490	G3	88	In each device is placed one filtration pad.
	FWR-2000	838W79	0,20	600x600			



**COMPACT FILTER**

	Type	Part No.	Weight [kg]	Dimensions [mm]	Class	Filtration efficiency [%]	Remarks
	FKR-1000	838F47	2,5	490x490	F9	95,6	1 piece in RAK-1000
	FKR-2000	838F48	4	600x600			1 piece in RAK-2000

**ACTIVATED CARBON IMPREGNATED NON-WOVEN FILTER**

	Type	Part No.	Weight [kg]	Dimensions [mm]	Remarks
	FCR-1000	838W96	0,30	450x450	In each device is placed one non-woven sheet. Non-woven dimension in FCR-2000 is shown in the developed view.
	FCR-2000	838W97	0,32	570x700	

**ADDITIONAL EQUIPMENT**

	Type	Part No.	Remarks
	set of castor wheels	828K00	The set consists of 4 wheels, along with supports (RAK-1000 and RAK-2000).
	set of brackets	828W00	The set consists of 4 wall brackets (RAK-1000 and RAK-2000).

# UFO-A-N

FILTERING UNIT  
FOR MANUFACTURING PROCESSES

## APPLICATION

Is irreplaceable in capturing the dry dusts, arising during:

- welding,
- grinding the non-sparking materials,
- gas-, or plasma cutting of metal,
- powder painting,
- processing of cast iron.

## FEATURES

- one or more filtration chambers, with cartridge filters
- compressed air chamber with electromagnetic valves
- decompression chamber
- Venturi orifices
- connections Ø500 mm
- a set of automation



## ADVENTAGES

- high-efficiency filtration
- automatic cleaning of filters by impulses of compressed air
- convenient filters replacement
- signalling of the pollution degree of the filters
- option: possibility of installing the spark catcher
- option: possibility of installing the CaCO<sub>3</sub> dosing unit
- possibility of installing the automation set in a convenient place within the hall
- used inside or outside the building
- the ability to regulate the flow efficiency of the device by equipping it with a frequency converter controlled by a pressure converter

## TECHNICAL DATA

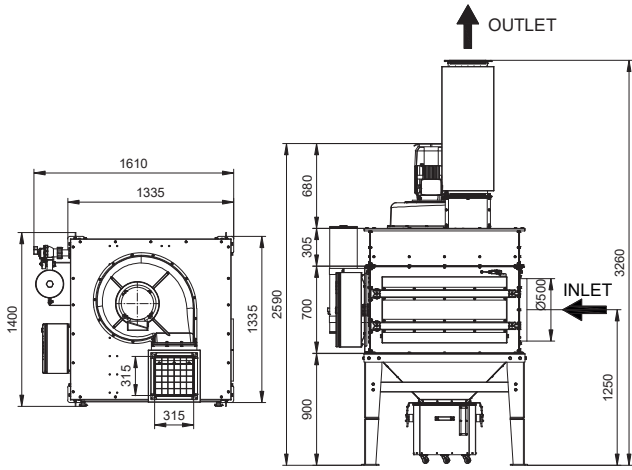
Type	UFO-A-5000-N	UFO-A-10000-N	UFO-A-15000-N	UFO-A-20000-N
Part No.	805U20	805U21	805U22	805U23
Maximum volume flow [m <sup>3</sup> /h]	9200	14 300	18 100	22 700
Operating volume flow [m <sup>3</sup> /h]	4000–6000	8000–12 000	12 000–16 000	16 000–21 000
Maximum vacuum [Pa]	4100	4500	5000	5250
Motor rate [kW]	5,5	11	18,5	22
Filtration surface [m <sup>2</sup> ]	60	120	180	240
Supply voltage [V]	3x400	3x400	3x400	3x400
Acoustic pressure level [dB(A)] <sup>1</sup>	72	76	78	80
Weight [kg] <sup>2</sup>	575	765	1015	1125
Quantity of inlet connections [pcs]	1x500	1x500	2x500	2x500
Required pressure of compressed air [bar]	6–8			
Quantity of cartridge filters	2	4	6	8
Capacity of the dust container [dm <sup>3</sup> ]	72	72	72	72
Minimum requirement for compressed air [Nm <sup>3</sup> /h]	2,8	5,6	8,4	11,2

1. Pressure measurement was carried out at the distance of 1 metre, at nominal volume flow.

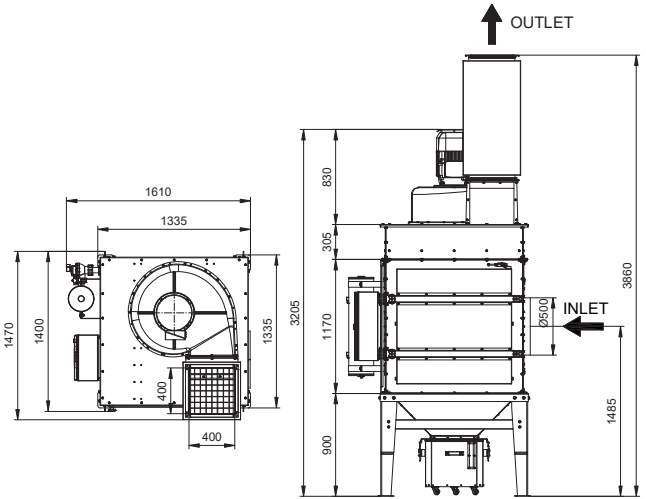
2. Weight of the device – without silencers.



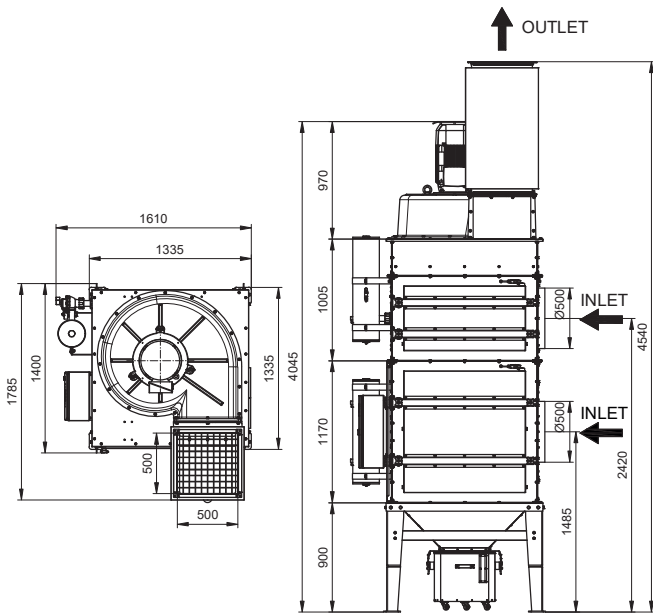
UFO-A-5000-N



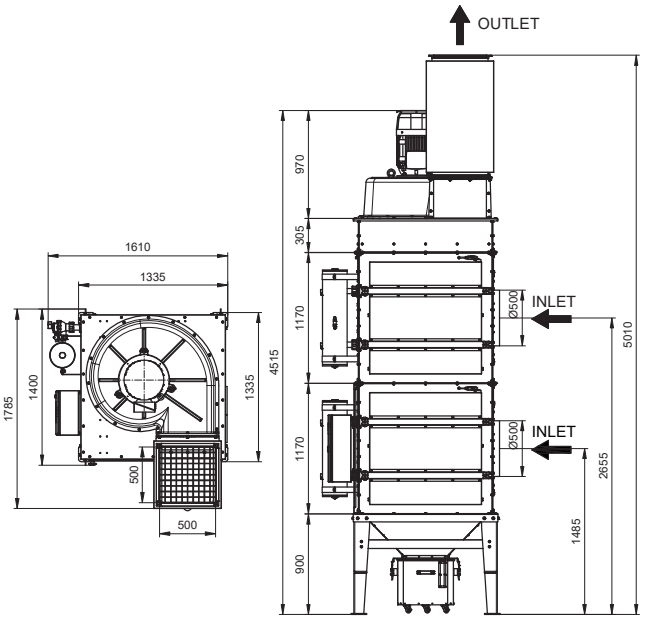
UFO-A-10000-N



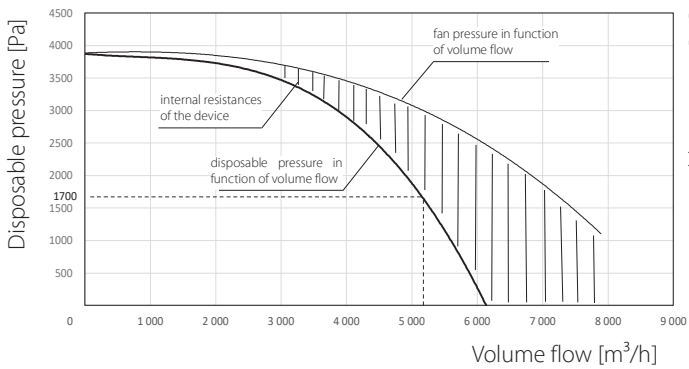
UFO-A-15000-N



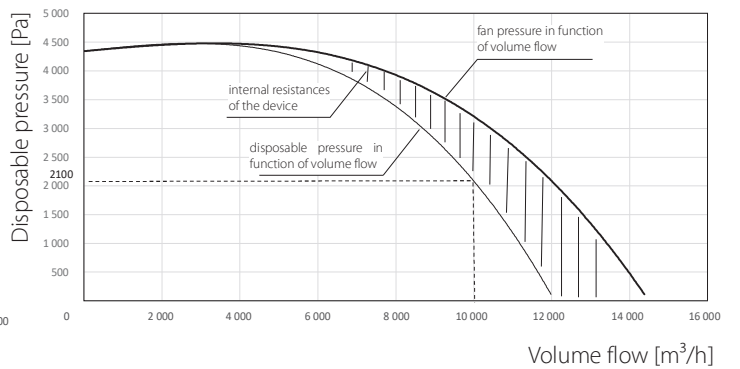
UFO-A-20000-N



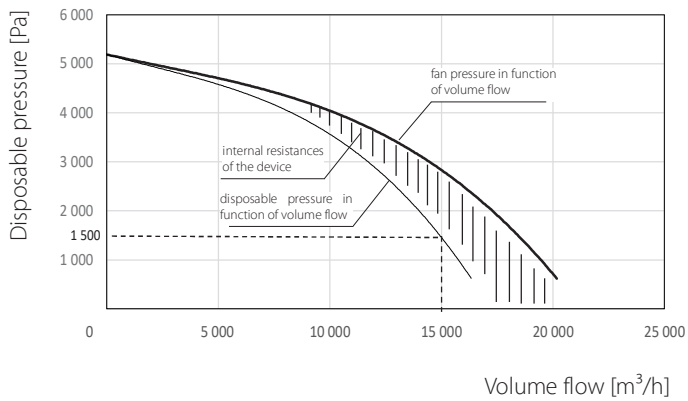
UFO-A-5000-N



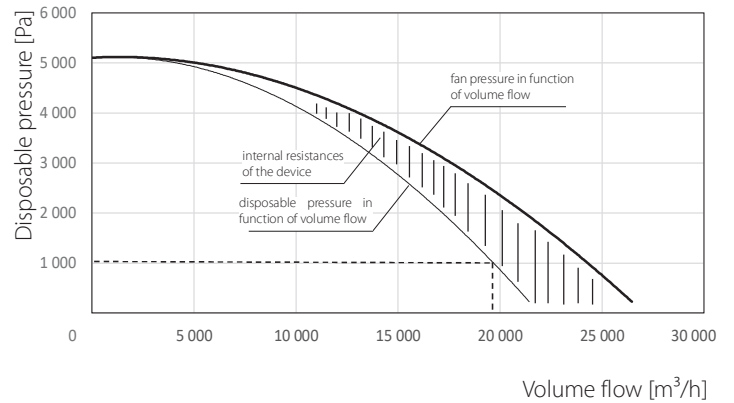
UFO-A-10000-N



UFO-A-15000-N




UFO-A-20000-N




## REPLACEABLE PARTS

### CARTRIDGE FILTER


	Type	Part No.	Weight [kg]	Filtration efficiency [%]	Filtration surface [m <sup>2</sup> ]
	PN306638U	800F25	9,35	to 99,9	30

## ADDITIONAL EQUIPMENT

### SPARK CATCHER

	Type	Part No.	Connection diameter [mm]	Weight [kg]	Remarks
	D-500	840Ł03	500	55	Spark catcher is designed for installing at the inlet connection of UFO-A-N or of the extraction ducting. It eliminates the hazard of sparks and glowing particles that may be transported along with the extracted dust and protects the device from fire risk. It is important to clean the spark catcher net periodically. For use with UFO-A-5000-N.

### CaCO<sub>3</sub> DOSING UNIT

	Type	Part No.	Remarks
	UN-1	804U20	UN-1 is dosing CaCO <sub>3</sub> (that accumulated in the container). The created air-CaCO <sub>3</sub> -mixture protects the filters from building up the excessive pollution layer. This contributes to the better filters longevity and protects the filters from fire/ignition.

# ISKRA-10

SPARK CATCHER

## APPLICATION

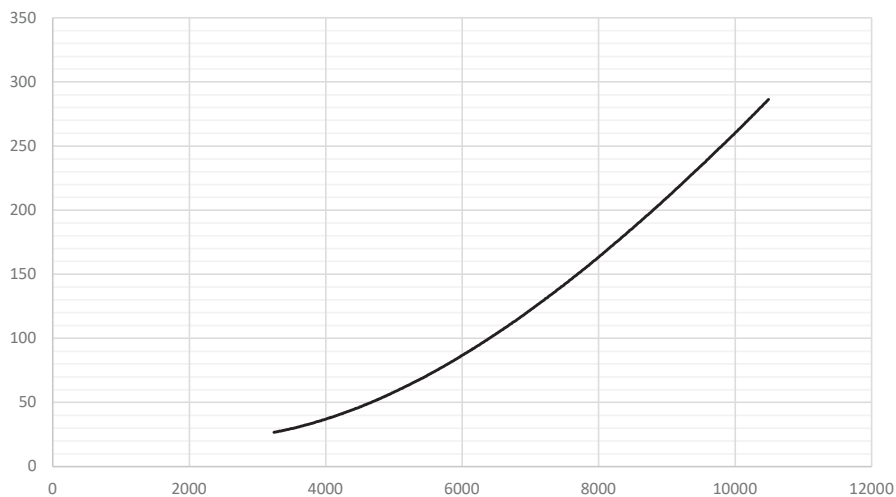
- protection of filtering units against fire hazard, caused by sparks that are able to enter into the filtering units

## FEATURES

- control of sparks arising during the welding processes and grinding of metals
- labyrinthine air flow
- cleaning orifice to remove the accumulated dust particles
- maximum flow capacity – 10 000 m<sup>3</sup>/h

## ADVANTAGES

- free choice of the position configuration of inlet and outlet, according to the requests of User
- protection of filters against getting ignited



## TECHNICAL DATA

Type	Part No.	Maximum volume flow [m <sup>3</sup> /h]	Connections [mm]
ISKRA-10	840Ł04	up to 10 000	2xØ500