STRONG

FILTRATION OF DRY FINE DUST

APPLICATION

- cleaning the air of dry dusts, emitted during processes in metal industry, chemical industry, food production, pharmaceutics, plastic processing and others
- especially designed for capturing the dust during grinding processing

FEATURES

- high-efficiency cartridge filters – filtration efficiency 99,9%
- pneumatic filters regeneration system
- spark catcher
- sound absorbed fan – placed on the top surface of the system

ADVENTAGES

- filtration of high efficiency
- automatic filters regeneration by impulses of compressed air
- large dust container (70 l)

TECHNICAL DATA

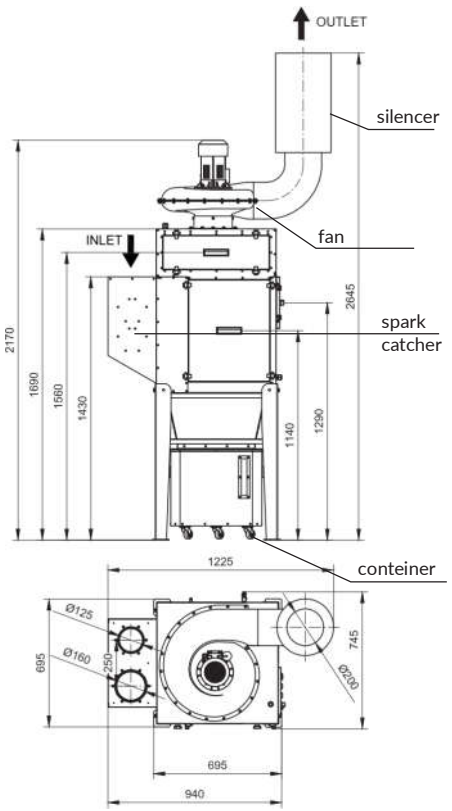
Type	Part No.	Maximum volume flow [m^3/h][1]	Maximum vacuum [Pa]	Supply voltage [V]	Motor rate [kW]	Acoustic pressure level [dB(A)] from distance:		Capacity of the waste container [dm^3]	Consumption of compressed air [Nm^3/h]	Weight [kg]	Suction connections[2]
						1 m	5 m				
STRONG-1000-N	804U42	1750	2000	230	1,5	71*	65*	72	0,7	181	1xØ125 1xØ160
STRONG-2000-N	804U43	3150	2250	3x400	3,0	72,5*	66*	72	1,4	253	1xØ160 1xØ200

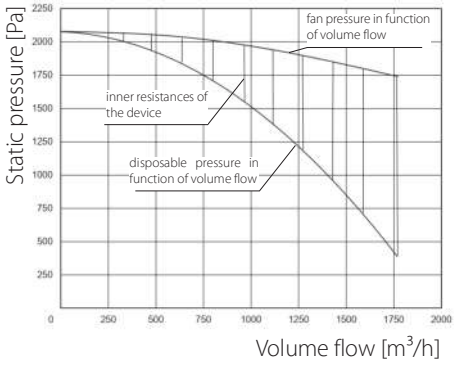
* Measuring was carried out for the device with the installed extraction arm.

1. Volume flow was established for clean filters.

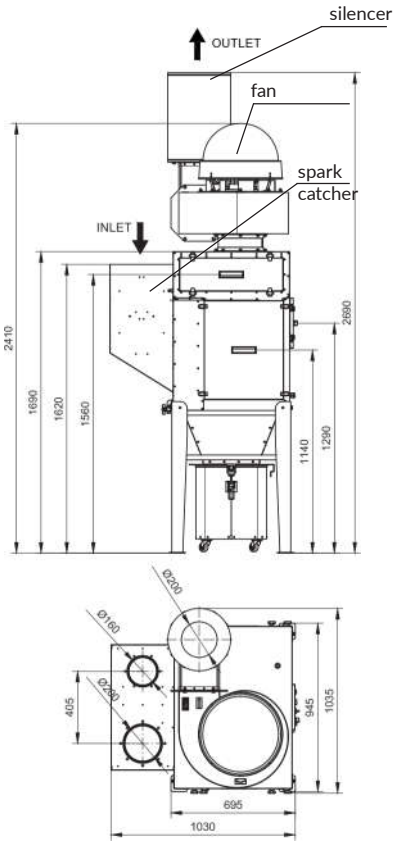
2. Assortment of ERGO LUX extraction arms is represented in separate catalogue cards.

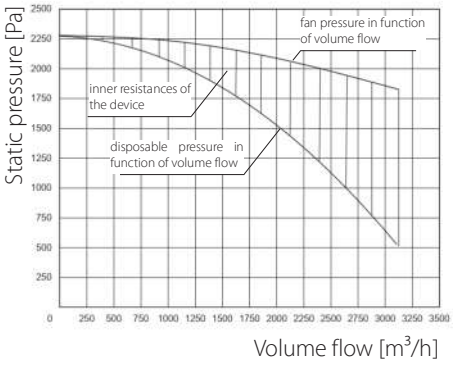
STRONG-1000-N





STRONG-2000-N





REPLACEABLE PARTS

CARTRIDGE FILTER

	Type	Part No.	Weight [kg]	Filtration efficiency [%]	Quantity of filters
	PN125032T	800F26	4,2	99,9	1 piece in STRONG-1000-N 2 pieces in STRONG-2000-N

ADDITIONAL EQUIPMENT

REDUCER 400x400/Ø500 mm

	Type	Part No.		Type	Part No.		Type	Part No.
	ZR-UF	829R82		TK-UF	830T92		KL-UF	829K97

PROTON

FILTRATION OF WELDING DUSTS
AND OIL MIST

APPLICATION

- filtration of contamination emitted during processes with emission of dry dusts, viscous dusts and oil mist, e.g. during the welding of oil-laden steel sheet, tool cooling with water-oil emulsions, etc.

FEATURES

- net filter at the device inlet
- fan – located at the suction side of the electro-filter
- ionizer section
- absorber section

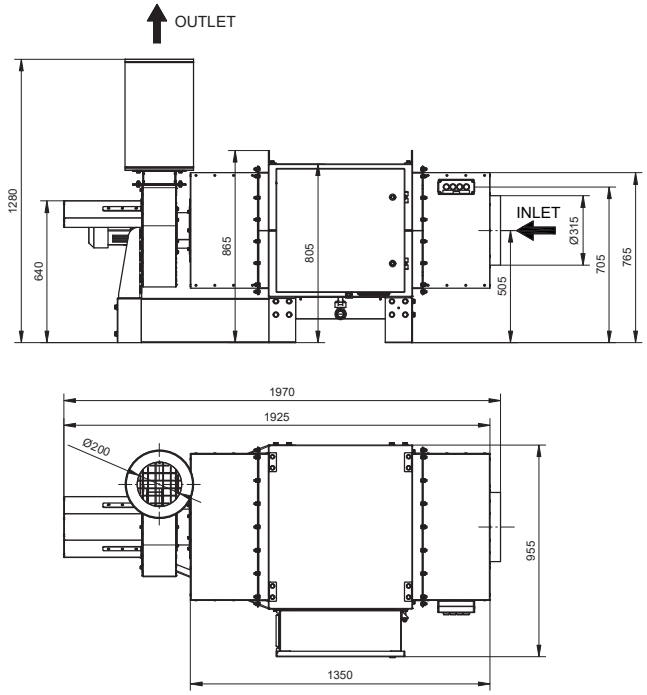
ADVANTAGES

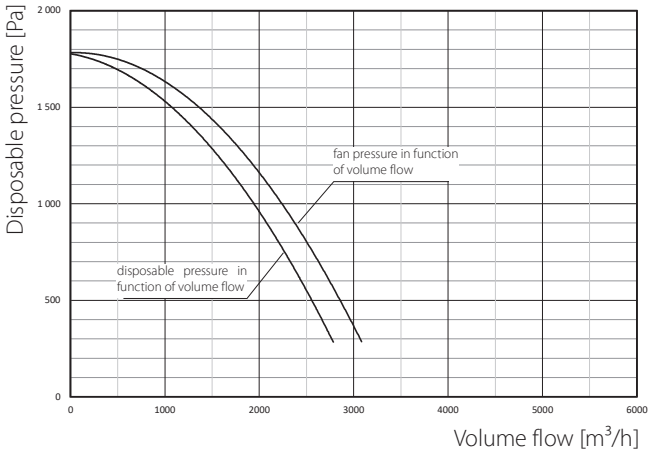
- the device is manufactured in three sizes: 2000, 4000 and 8000 m^3/h
- filtration efficiency: 98%
- convenient system of cleaning the filtration section
- low power consumption

TECHNICAL DATA

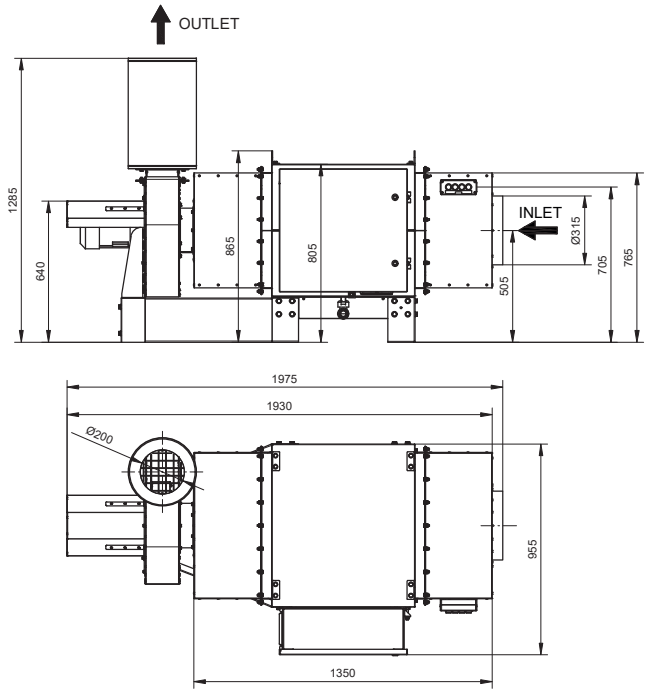
Type	Part No.	Maximum volume flow [m^3/h]	Maximum vacuum [Pa]	Supply voltage [V]	Motor rate [kW]	Acoustic pressure level [dB(A)] from distance:		Weight [kg]
						1 m	5 m	
PROTON 2000	800E00	2500	1800	3x400	1,1	74	60	198
PROTON 4000	800E01	4000	2400	3x400	2,2	82	68	218
PROTON 8000	800E02	8000	2950	3x400	5,5	87	74	397

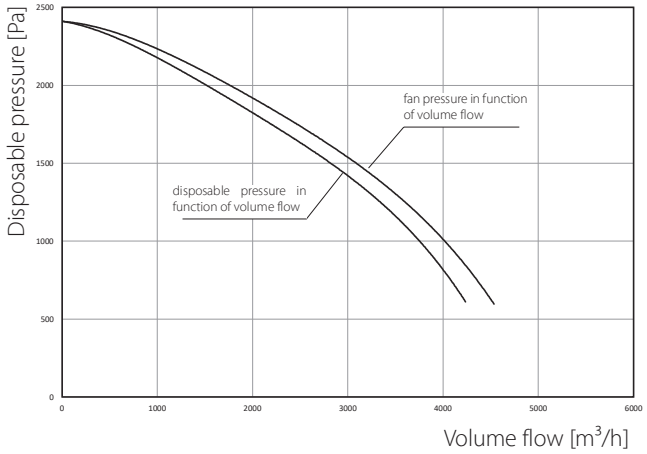
PROTON-2000



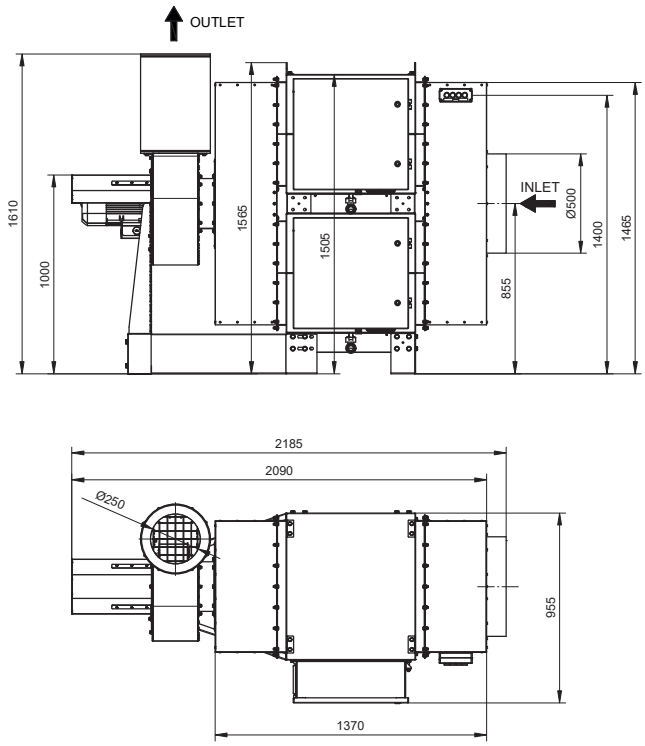


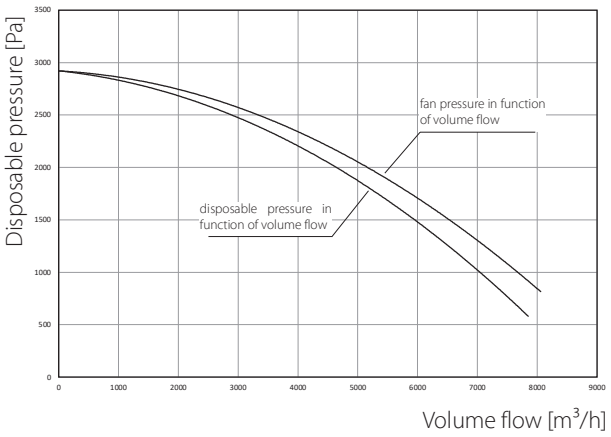
PROTON-4000





PROTON-8000





ADDITIONAL EQUIPMENT

RINSING BATH

	Type	Part No.	Remarks
	P-PROTON	800E10	A container for washing through the absorber section – equiped with a grainage valve.

WET-N

WET DUST SEPARATORS

APPLICATION

- removal of dry, wet and viscous dusts
- extraction of dust with large amount of sparks
- dust control in industry branches: chemical-, pharmaceutical-, metal-and food industry

FEATURES

- mixing chamber – contains a guiding plate, creating a whirlpool of a water-dust mixture
- hopper – receiving the waste of filtration
- shear botom closing, with a sludge container
- drainage valve
- fan – located above the mixing chamber
- float indicators – controlling the level and water replenishment in the mixing chamber
- switchgear
- revision covers of the dripping set
- the device is connected to the water supply ducting
- the device is equipped with a double-set of sludge discharge (for daily removal of sludge), is implemented a sludge container, supplied from water installation, that washes out the accumulated waste, conveyed further to a container placed nearby the device, providing the efficient water saving)
- the accumulated sludge (in the collective hopper) ought to be discharged systematically after the pneumatulic shear closing is closed, whereby the drainage valve must be opened
- after the sludge is discharged, the water in the mixing chamber is re-filled automatically

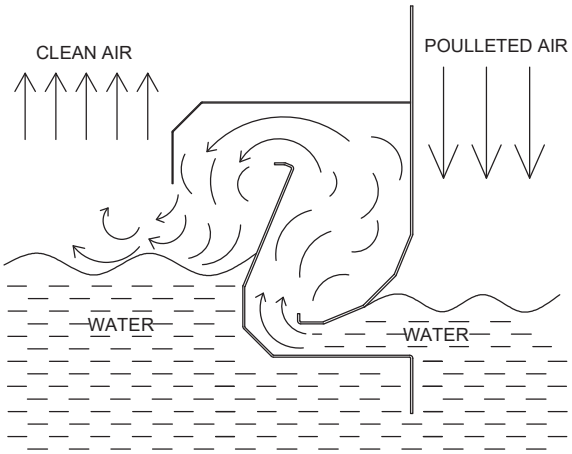
ADVANTAGES

- wide application in varipus fields of industry
- safe and efficient dust filtration, even dusts with significant amount of sparks and with hard-to-handle viscous dust particles

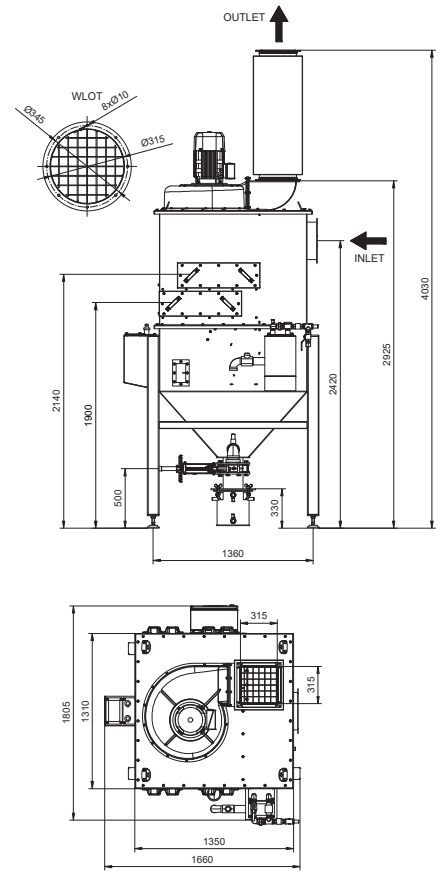
TECHNICAL DATA

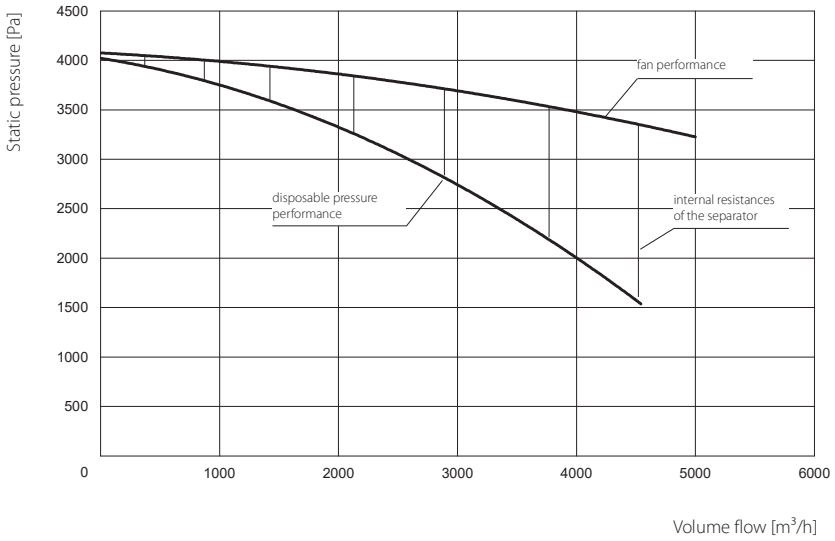
Type	Part No.	Maximum volume flow [m^3/h]	Maximum vacuum [Pa]	Supply voltage [V]	Motor rate [kW]	Acoustic pressure level [dB(A)] from distance 1 m:	Capacity of the water chamber [m^3]	Weight [kg]
WET-4000-N	800O14	5000	4000	3x400	5,5	72	0,65	937
WET-6000-N	800O13	9000	4500	3x400	11	76	0,65	1037

FUNCTION

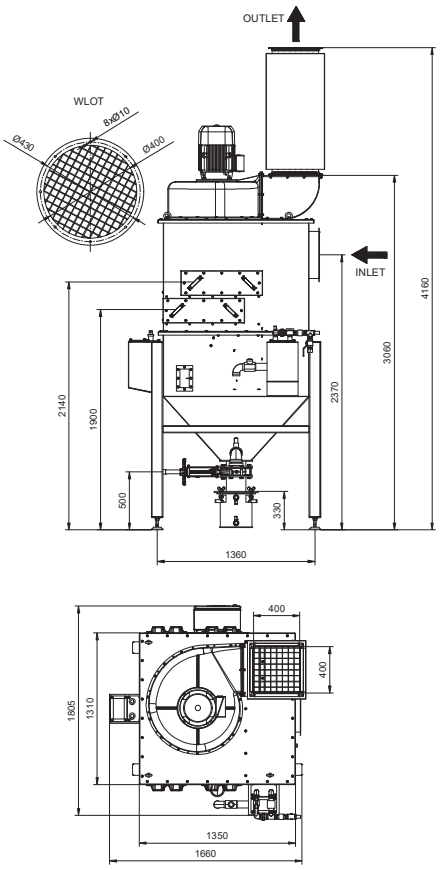


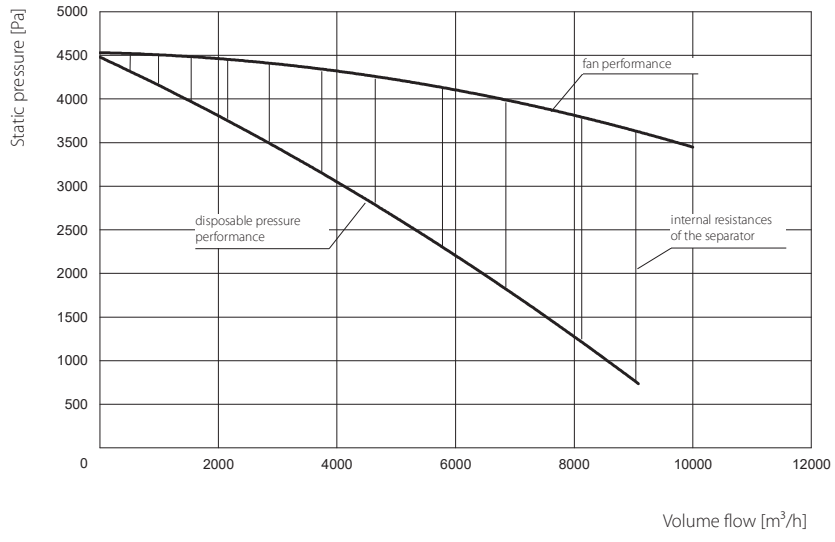
WET-4000-N





WET-6000-N





UFO-LP

FILTERING UNIT FOR LASER-
AND PLASMA CUTTING OF METAL

APPLICATION

- efficient in extraction of dry dust, arising during laser- or plasma cutting of metal
- additionally applied in chemical industry, pharmaceutics, food production, plastic processing

FEATURES

- one or two filtration chambers with cartridge filters
- fan placed in a sound absorbed chamber
- compressed air tank with electromagnetic valves
- decompression chamber
- Venturi orifice
- connections Ø500 mm
- automation set

ADVANTAGES

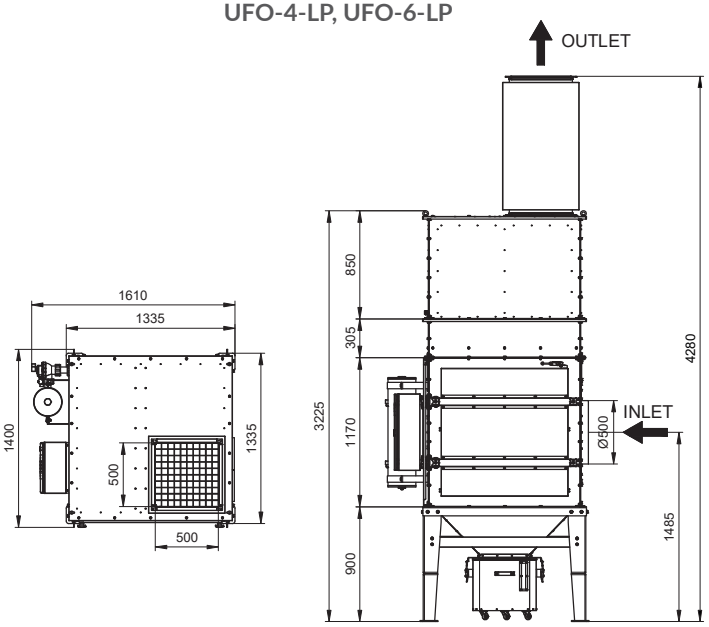
- efficient extraction and separation of dust, emitted during laser- or plasma cutting of metal elements
- filters cleaned automatically with impulses of compressed air
- convenient filters replacement
- high economy due to the large filtration surface
- equipped with a duct spark catcher
- possibility of installing the control unit in a chosen convenient place within the process room

TECHNICAL DATA

Type	UFO-4-LP	UFO-6-LP	UFO-8-LP
Part No.	805U31	805U32	805U33
Maximum volume flow [m^3/h]	6200	8000	13 000
Operational volume flow of laser/plasma cutting [m^3/h]	4000	6000	8000
Maximum vacuum [Pa]	2450	2950	2950
Motor rate [kW]	3,0	5,5	5,5
Filtration surface [m^2]	120	120	180
Supply voltage [V]	3x400	3x400	3x400
Acoustic pressure level [dB(A)][1]	64	69	69
Weight [kg][2]	788	803	1002
Quantity of inlet connections [pcs]	1x500	1x500	2x500
Required compressed air pressure [bar]	6–8		
Quantity of cartridge filters	4	4	6
Capacity of the dust container [dm^3]	72	72	72
Minimum consumption of compressed air [Nm^3/h]	5,6	5,6	8,4

1. Measuring of the acoustic pressure level has been carried out from a distance of 1 metre, at the nominal volume flow.
2. Weight of the device with silencers.

UFO-4-LP, UFO-6-LP



UFO-8-LP