

Extractors are irreplaceable in cooperation with vehicles of fire departments, where instant readiness for action departure is required.



#### EXHAUST EXTRACTION SYSTEM SSAK

Is featured by extremely high efficiency of fumes extraction and easy use. Is irreplaceable in cooperation with vehicles, where instant readiness for departure from the depot is required.

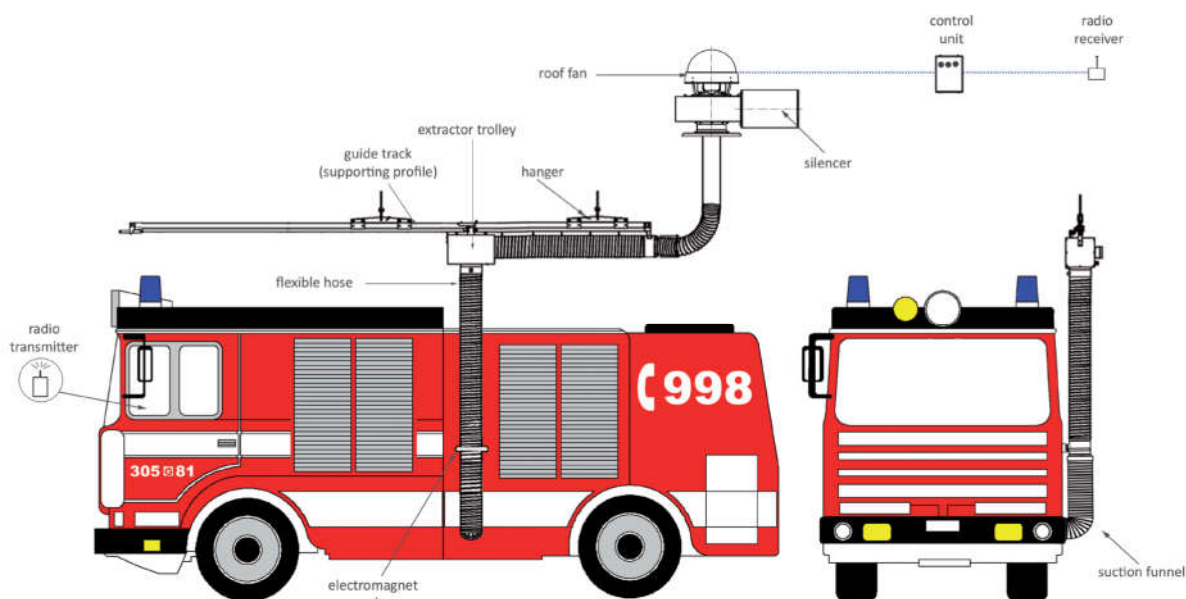
#### L-SHAPE NOZZLE OF UNIQUE FORM

The nozzle draws in the additional ambient air, providing the discharge of 100% of the exhaust volume. By means of an electromagnet, the nozzle is attracted and fastened to the gripper on the carbody. Even in case of a rapid departure, the electromagnet system provides save nozzle disconnection, right before the action vehicle passes the depot door.

#### HOSE

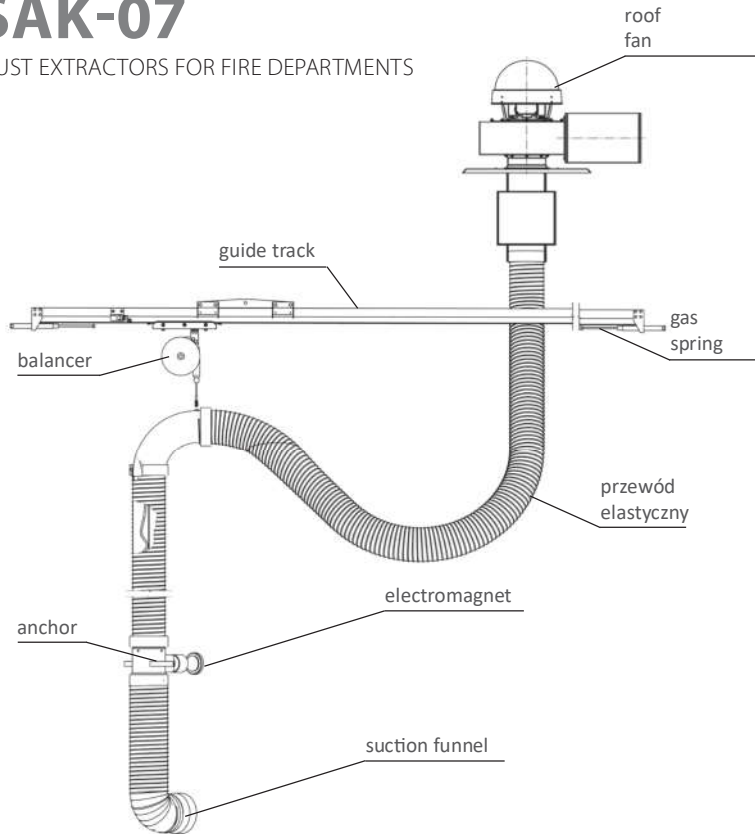
In the hose system includes a hose of diameter 160 mm, of increased thermal resistance (200°C), providing the optimum volume flow, whereby the system does not create excessive flow resistances, causing pressure decrease.

#### EXAMPLE OF USE OF THE BEL/SSAK EXHAUST EXTRACTION SYSTEM



# SSAK-07

EXHAUST EXTRACTORS FOR FIRE DEPARTMENTS



## APPLICATION

- removal of exhaust fumes emitted by vehicles of constant garaging place, where instant readiness for departure from the depot is required
- especially applicable for fire brigade vehicles of Volunteer Fire Departments
- for vehicles with exhaust pipe located at the side or behind the carbody

## ADVANTAGES

- general extractor to cooperate with the majority of categories of firefight vehicles
- lightweight construction of the extractor – easy assembly for the majority of fire depots
- automatic disconnection of the nozzle electromagnet, upon instant departure
- possibility of application of radio control

## FEATURES

- aluminium guide-profile – length 6 m
- trolley of the extractor set
- extractor with a hose lifted by a spring balancer
- L-shape nozzle – with an electromagnet to fasten it at the carbody
- manual control – ZE-SSAK-07 control unit (option: radio control by means of ZE-SSAK control unit)
- application with medium-pressure fans of WPA-N series of types

## TECHNICAL DATA

Type	Part No.	Range of volume flow [m³/h]	Flow resistances [Pa]	Hose		Nozzle inlet diameter [mm]	Length of the guide profile [m]	Weight¹ [kg]
				internal diameter [mm]	length [m]			
SSAK-07	804052	1200–1500	1200–1900	150	5	170	6	16

1. Value does not include the weight of the guide profile and the extraction fan.

# KOS-L/SSAK



## APPLICATION

- control of exhaust fumes emitted by vehicles of constant garaging place, where instant readiness for departure action from the depot is required
- a perfect solution for fire depots, emergency medical service, etc
- for vehicles with exhaust pipe at the side of carbody
- optional execution for vehicles with upright exhaust pipe (stack cane) directed to the side

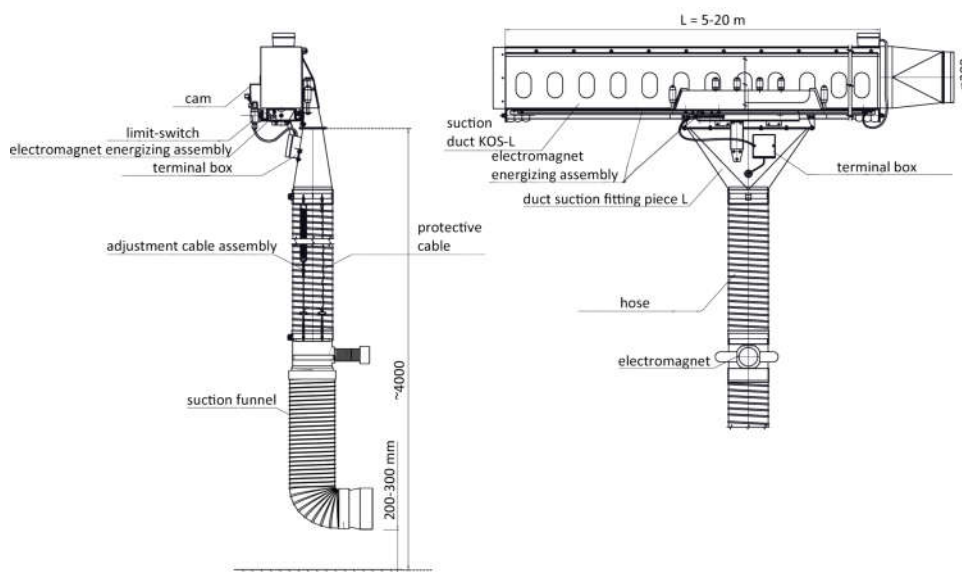
## FEATURES

- KOS-L self-tightening suction duct: steel segments – lengths 1,25 m and 2,5 m – combined together to the requested total operational length
- extractor trolley – with a suction fitting piece
- extractor with a spring balancer that is located inside the hose
- L-shape nozzle — with an electromagnet, to attach to the carbody

- radio control – ZE-SSAK control unit
- cooperation with medium-pressure extraction fans – WPA-N series of types

## ADVANTAGES


- a robust solution, designed for the majority of sorts of fire department vehicles
- it is possible to choose a suitable requested operational total length of the KOS-L self-tightening suction duct
- one self-tightening suction duct KOS-L can be used for two SSAK-L extractors
- automatic disconnection of the nozzle electromagnet from the carbody
- radio control
- it is possible to connect several extractors to one fan



### TECHNICAL DATA



Type	Part No.	Recommended volume flow [m <sup>3</sup> /h]	Flow resistances [Pa]	Hose		Nozzle inlet diameter [mm]
				internal diameter [mm]	thermal resistance [°C]	
KOS-L/SSAK	804055	1200–1500	1000–1300	150	200	170

### SELF-TIGHTENING SUCTION DUCT

	Type	Part No.	Segment length [m]	Cross-section dimensions [mm]	Cross-sectional area [cm <sup>2</sup> ]	Unit weight [kg/m]	Segment weight [kg]
	KOS-L	804K45	1,25				160x240
		804K46	2,5	35,5			


Maximum temperature of the conveyed medium 200°C.

### CONNECTION FITTING PIECES\*



Sort of the connection	Type	Part No.	Diameter [mm]
 for axial connection	KO	804K70	200
 universal connection	KTSU-200	804K79	200

\* For connection between the self-tightening suction duct and the discharge ducting.

### DUCT END CLOSING


Type	Part No.	Remarks
 ZK	804K87	to install at the duct terminal, in case when the axial connection is not applied

### DUCT ENDING SET\*


Sort of the ending	Type	Part No.	Remarks
 ZKL	ZKL	804K76	left ending set
 ZKP	ZKP	804K77	right ending set

\* To be installed at the front end of the first segment and at the terminal end of the last segment.

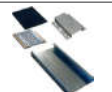
### DUCT SEGMENT JOINT

Type	Part No.	Remarks
 ZSK	804K75	a set of elements to integrate the two subsequent segments of the duct

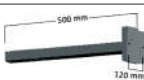
### RUBER STOPPER

Type	Part No.	Remarks
 ZG	804K31	installed at the terminal positions of the duct

### DUCT HANGER SET

Type	Part No.	Remarks
 ZWK	804K82	to install the duct under the wall hanger set

### WALL HANGER SET

Type	Part No.	Remarks
 WPK-2	804K86	used for installing the duct system to the wall or to a column



# BEL/SSAK



## APPLICATION

- extraction of exhaust fumes emitted by vehicles of constant garaging place, e.g. fire department, where instant readiness for action departure from the depot is required
- applied for vehicles with lower exhaust pipe located at the side the carbody

## FEATURES

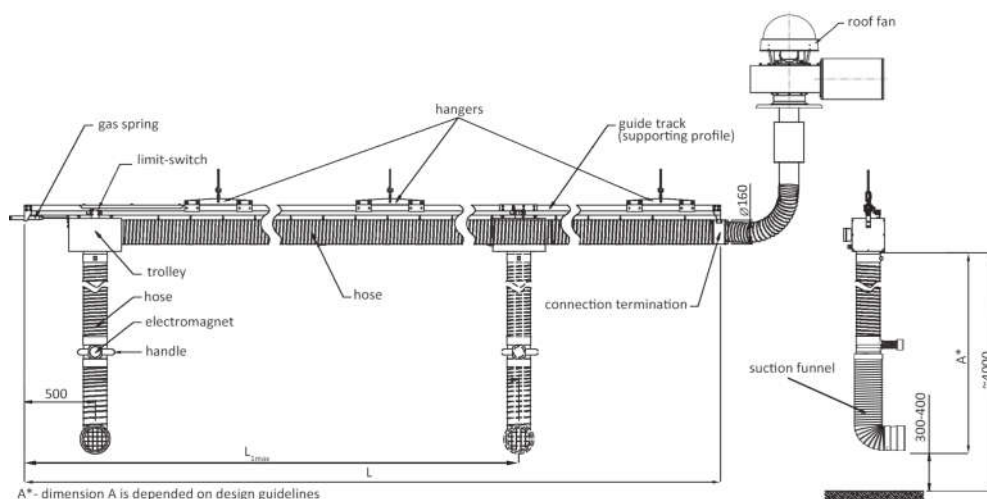
- lightweight aluminium guide profile
- hose – suspended under the guide profile
- extractor trolley

- vertical suction hose
- L-shape nozzle
- electromagnet set

## ADVANTAGES

- at the moment of the sudden alarm departure of the fire brigade vehicle, driver does not need to remember of manual nozzle disconnection (from the exhaust pipe)
- easy installing
- radio control
- it is possible to connect several extractors to one fan

### EXHAUST EXTRACTION SYSTEM BEL/SSAK WORKING WITH A ROOF FAN



## TECHNICAL DATA

Type	BEL/SSAK-6	BEL/SSAK-9	BEL/SSAK-12	BEL/SSAK-15
Part No	804080	804081	804082	804083
Recommended volume flow in the nozzle [m <sup>3</sup> /h]	1200–1500	1200–1500	1200–1500	1200–1500
Flow resistances [Pa]	1400–1800	1800–2100	2300–2600	2500–2900
Length of the guide profile L [m]	6	9	12	15
Active range of the nozzle movement L <sub>1max</sub> [m]	4,2	6,5	8,7	11
Weight [kg]	40	60	70	82
Thermal resistance of the hose [°C]	200	200	200	200

# OVER/SSAK



## APPLICATION

- extraction of exhaust fumes emitted by vehicles of constant garaging place, e.g. fire department, where instant readiness for action and departure from the depot is required
- applied for vehicles with vertical exhaust pipe

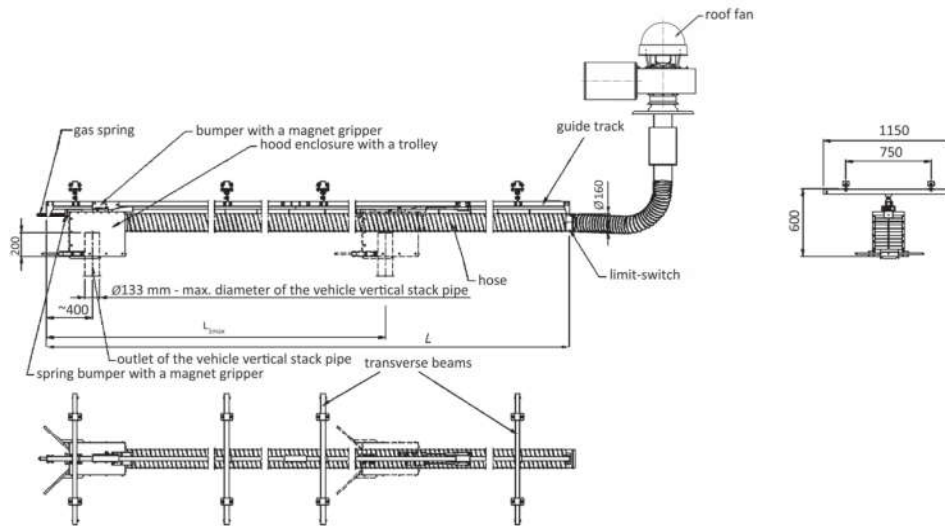
## ADVANTAGES

- at the moment of the sudden alarm departure of the fire brigade vehicle, driver does not need to remember of manual nozzle disconnection (from the exhaust pipe)
- automatic self-centering of the suction box, towards the exhaust pipe, while vehicle moves backward
- it is possible to connect several extractors to one fan

## FEATURES

- lightweight aluminium guide profile
- suction hose – suspended under the guide profile
- extractor trolley – with a special suction box

### EXHAUST EXTRACTOR OVER/SSAK WORKING WITH A ROOF FAN



### TECHNICAL DATA

Type	OVER/SSAK-6	OVER/SSAK-9	OVER/SSAK-12	OVER/SSAK-15
Part No.	804090	804091	804092	804093
Recommended volume flow in the nozzle [m <sup>3</sup> /h]	1200–1500	1200–1500	1200–1500	1200–1500
Flow resistances [Pa]	1200–1600	1500–1900	1800–2200	2100–2500
Length of the guide profile L [m]	6	9	12	15
Active range of the nozzle movement L <sub>max</sub> [m]	4,2	6,5	8,7	11
Weight [kg]	59	74	89	104
Thermal resistance of the hose [°C]	200	200	200	200