BEL/SSAK

Purpose

As a solution, BEL/SSAK system is appropriate for exhaust removal of vehicles of stable stationing place, i.e. fire department depot, where absolute readiness for action departure is required. The system can be applied for vehicles with side exhaust pipe or back exhaust pipe.

Structure

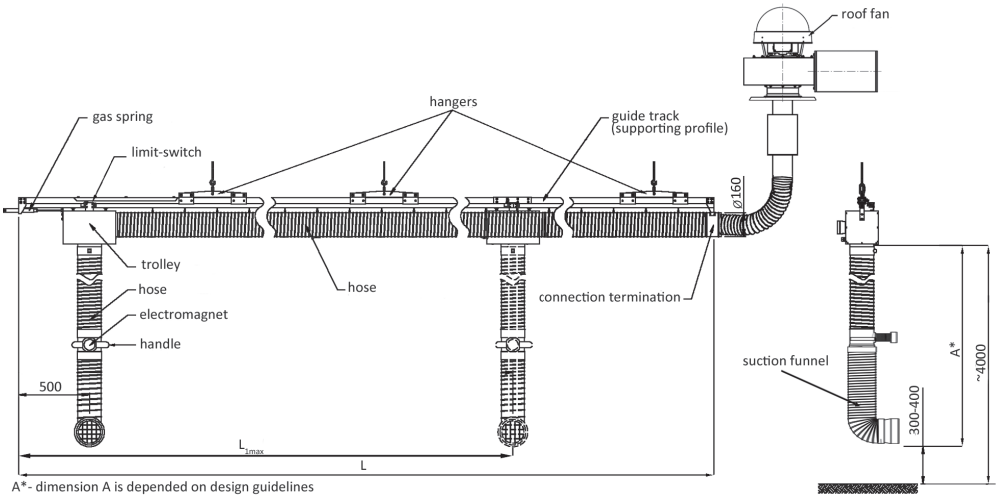
The system consists of a guide track – a profile with electrical cable, with a hose, suspended from the ceiling (recommended installing height – approx. 4 m). Along the guide track is displacing the extraction trolley with the attached suction hose.

The vertical hose section contains an electromagnet anchor for attachment at the magnet gripper plate screwed on the carbody. Inside the hose is a cable to energize the electromagnet. A specially shaped suction funnel is fixed at the hose termination. The magnet-gripper plate has to be fixed in such a point on the carbody that the exhaust funnel is hanging right opposite and in close distance from the exhaust pipe, to provide safe funnel connection.

At the moment when the vehicle leaves the garage, the trolley displaces on the guide track. On the trolley is located a limit-switch which automatically disconnects the electromagnet (of the suction funnel) from the carbody. After that, the funnel shall be lifted by the spring balancer to the upper position.

The immobile hose termination should be connected to the discharge ductwork. It is recommended that the extraction system works with the roof fan or flange-type fan (see catalogue card FANS). The extraction fan can be operated manually or via radio, by means of a radio transmitter. Other elements of the electrical equipment are: control unit ZE-SSAK, radio receiver and auxiliary controller. The fan is automatically switched off while the vehicle is leaving the garage. Upon re-entry the fan is automatically started – just before the vehicle enters the garage. User can adjust the time of delay when the fan is stopping.

Exhaust extraction system BEL/SSAK working with a roof fan



A*- dimension A is depended on design guidelines

Technical data

Type	BEL/SSAK-6	BEL/SSAK-9	BEL/SSAK-12	BEL/SSAK-15
Part no.	804O80	804O81	804O82	804O83
Recommended volume flow at the suction funnel [m³/h]	1200–1500	1200–1500	1200–1500	1200–1500
Flow resistances [Pa]	1400–1800	1800–2100	2300–2600	2500–2900
Length of the guide track L [m]	6	9	12	15
Operational range of the funnel L_{1max} [m]	4,2	6,5	8,7	11
Weight [kg]	40	60	70	82
Thermal resistance of the exhaust hose [°C]	200	200	200	200