

Fans working with extractors KOS-L/SSAK, BEL/SSAK, OVER/SSAK

Fans working with exhaust extractors ought to be selected, depending on the needs (quantity of the served workplaces, sort of the served vehicle, coincidence factor of the exhaust extraction). It is recommended to apply the radial fans WPA-N (see Section FANS). To select the fans correctly contact KLIMAWENT S.A.

Elements of electrical equipment to control with function of extractors KOS-L/SSAK, BEL/SSAK, OVER/SSAK

1. Control unit ZE-SSAK – installed in the garage or another room, indicated by User.

Contains a switch with subsequent positions:

- 0 – the control unit is switched off,
- L – local control,
- Z – remote control.


Local control L – to switch on the fan from the ZE-SSAK control unit – press the green pushbutton START, to disconnect press the red button STOP.

Remote control Z – the fan is operated by means of auxiliary control units ZP-1/24 V, ZP-2/24 V or via radio through radio transmitter NR-1 Ap and receiver OR-1.

1. Control unit ZE-SSAK


Control unit, depending on the motor rate, is equipped with an adequately selected Motor Protective Switch and a contactor. Serves as a short-circuit- and thermal protection, includes a time relay delaying the fan STOP (exclusively in the remote mode) – manufacturer's setting is approx. 1,5 min.

Control units used to operate the fans of motor rate above 5 kW provide a soft start of the fan by means of a star-delta starting system.

	Type	Part no.	Supply voltage [V]; 50 Hz	Current range [A]	Motor rate [kW]	Devices to cooperate with
	ZE-SSAK-4-3	811Z50	3x400	2,5–4	1,5	WPA-8-(D, E, S)-3-N, NR-1Ap, OR-1
	ZE-SSAK-6,3-3	811Z51	3x400	4–6,3	2,2	WPA-9-(D, E, S)-3-N, NR-1Ap, OR-1
	ZE-SSAK-10-3	811Z52	3x400	6–10	3	WPA-10-(D, E, S)-3-N, NR-1Ap, OR-1
	ZE-SSAK-13-Y/D	811Z55	3x400	9–13	5,5	WPA-11-(D, E, S)-3-N, NR-1Ap, OR-1
	ZE-SSAK-17-Y/D	811Z56	3x400	11–17	7,5	WPA-13-(D, E, S)-3-N, NR-1Ap, OR-1
	ZE-SSAK-32-Y/D	811Z57	3x400	22–32	15	WPA-14-S-3-N, NR-1Ap, OR-1


2. Control unit ZE-SSAK 07

To control the fan in application with the exhaust extractor SSAK-07, in case of other extractors SSAK do not provide remote control (via cable or wireless).

	Type	Part no.	Supply voltage [V]; 50 Hz	Motor rate [kW]	Current range of the motor switch [A]	Devices to cooperate with
	ZE-SSAK 07	811Z49	3x400	1,5	2,5–4	WPA-7-E-3-N, WPA-7-D-3-N, WPA-8-E-3-N, WPA-8-D-3-N


3. Radio receiver OR-1

To cooperate with the radio transmitter NR-1Ap. Install the receiver in a place where radio waves interference do not occur. The receiver is connected electrically with this unit.

	Type	Part no.	Voltage	Devices to cooperate with
	OR-1	812O01	24 V AC	ZE-SSAK, NR-1Ap


4. Radio transmitter NR-1Ap

Is designed for wireless control of the fan, from driver's cabin. The fan is started automatically while starting the vehicle engine. When the engine is stopped or the vehicle leaves the garage for action, the fan switches off automatically upon adjusted time delay. At the moment the vehicle returns to garage, the fan is automatically switched on. The pushbutton on the radio transmitter starts the fan. When the vehicle engine is stopped and started again, the transmitter will be activated one more time.

	Type	Part no.	Voltage	Devices to cooperate with
	NR-1Ap	812N04	12÷24 V DC	OR-1

5. Safety switch IS

To cut off the supply circuit of the one-phase or three-phase motor of rated current 16 A. It is possible to block the switch wheel in position 0-OFF. It is suggested to install the switch near the fan.

 IP 55	Type	Part no.	Supply voltage [V]; 50 Hz	Current range of the thermal protection [A]
	IS	843W30	230/3x400	0-16