

CARBOHEAT CO2

SKYLIGHT IS A NATURAL HEAT AND SMOKE EXHAUST SYSTEM



K.B.K. fire
protipožární ochrana



The natural heat and smoke exhaust system is a reserved fire safety equipment that creates a layer with a mixed smoke content over the floor in the event of fire, thus it improves conditions for safe evacuation of persons and facilitates a fire fighting intervention. The system clears hot gases created during fire. Heat and smoke exhaust system type CARBOHEAT CO2 is designed as an automatic fire ventilation that is tested in accordance with ČSN EN 12 101-2 and certified by Notified body No. 1396 FIRES Ltd by CE certificate.



CARBOHEAT CO2

The heat and smoke exhaust system consists of a ventilation flap, opening control mechanism and CO2 distribution system (copper piping). The core structure is made of galvanized steel and insulated by thermal insulation. The openable part is made of aluminium profile and glassed with polycarbonate. The polycarbonate type is delivered on the basis of the requirement from the customer according to the coefficient of heat passage and light permeability. If required by the customer the openable part can be darkened. The ventilation flap is opened by one pneumatic piston with maximum stroke of 1000 mm (depending on the flap size) and opening angle of 140°.

The mechanism of opening is designed to be failure-free even during the increased pressure power by 300 N/m². Safety locks that are unlocked by pressure medium in case of activation secure ventilation flaps against opening. The system is designed as automatic.

Activation (opening) of ventilation flaps is done:

- Manually – manual triggering of the heat and smoke exhaust system: activation of ventilation flaps (section) is done by breaking the glass of the control box for the given smoke section and striker activation.
- Thermally – flap activation by auxiliary source: heat starter is placed under the ceiling cover of particular smoke section and controls the smoke section. Automatic activations is put into operation by melting of the thermal fuse that is set to a certain temperature.
- Electric signal – flap activation by the impulse from EPS: activation of flaps in the particular smoke section is done automatically by the signal from electric fire signalization system (EPS). The current impulse of 24 V, 0,23 A is released for activation.

The heat and smoke exhaust system is standardly delivered as a single-acting system (automatic opening, manual closing), in case of the customer's requirement it is possible to deliver a double-acting system (automatic opening as well as closing). Ventilation flaps may be used for daily ventilation that is provided by electric motor with the lift of 300-700 mm.



K.B.K. fire, s.r.o.
Heydukova 1093/26
702 00 Ostrava-Průvov
tel.: +420 553 810 560
obchod@kbkfire.cz

www.kbkfire.cz

