



#### INTENSIVE fans

carry the Certificate of Functional Properties Constancy No.:

**1488-CPR-0523/W**

They have been submit to tests according to EN 12101-3 Standard and classified in accordance to EN 13501-4 Standard in the class:

- **F<sub>400</sub> 120**
- **F<sub>300</sub> 60**
- **F<sub>200</sub> 120**

## Purpose

INTENSIVE fans have been developed for extract of heat, exhaust fumes and smoke arising during fire disaster.

They can work in systems:

- general ventilation,
- fire emergency ventilation,
- mixed ventilation [two-functional, application of a two-speed motor].

A series of types counts 7 sizes [315, 355, 400, 500, 630, 800 mm] of motor rates from 0,18 up to 22 kW.

Maximum volume flow is 52 000 m<sup>3</sup>/h and maximum static pressure – 1850 Pa.

## Structure

Outer housing is made of octagonal shape aluminium sheet. Inside, on the supporting structure, is located a motor. The radial impeller is directly mounted at the motor shaft (direct drive), and is statically and dynamically balanced, according to PN-93/N-01359 standard, gaining the class G 6,3.

Appropriate selection of the blade inclination angle guarantees high fan pressure, flow efficiency and, at the same, low acoustic pressure.

Double-action impeller, provides intensive air flow, through the isolated motor chamber. The motor is not located within the stream of the flowing air. It is cooled by external air, supplied through an isolated cooling duct.

The construction of the fan assure the possibility of installing on a roof base or on a stable pedestal of square section.

The fans are driven by:

- three-phase single-speed motors [230/400 V (Y) or 400/690 V (D/Y)],
- three-phase double-speed motors [400/400 V (Y/YY)].  
Motors of class IE2, IE3.

In the standard execution, the fan housing is not painted. On demand of Customer the housing can be powder painted in RAL (additional payment).

## Additional equipment

Additional equipment of the INTENSIVE fan consists of following elements:

- insulated roof base – IPD,
- sound absorbing roof base – TPD,
- self-activating return damper – SKZ,
- flange compensator – KK,
- mounting flange – K,
- guard wire net – SO,
- silencer – KTH, KTH-R [without core / with core],
- sound absorbing fan housing – TOW,
- safety switch – WS.

The accessories have been tested during the fire test of the series of fan types INTENSIVE, according to the EN 12101-3 and is included in the offer assortment of KLIMAWENT FIRE.

Accessories ought to be selected by Customer on one's own. Especially, for safety reasons, it is recommended to apply a safety switch to disconnect the power supply during the installing- and servicing activity.