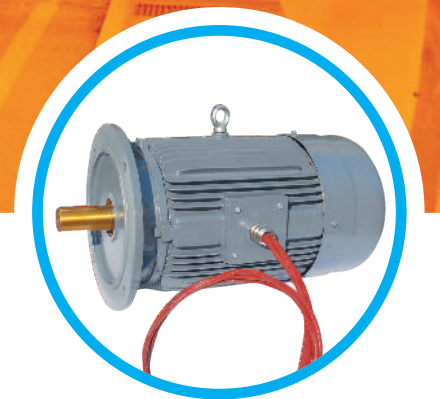


Smoke Extraction Motors



Inferno Series

Inferno Series LHP Smoke Extraction Motors

LHP presents Inferno Series - High performance Smoke and Heat Extraction Motors to ensure reliable operation during air ventilation under normal condition & smoke and heat extraction in the event of fire.

LHP inferno series comply with EN 12101-3 Standard & are manufactured to relevant international & national standards for electric motors.

Purpose of Inferno Series (Smoke and Heat Extraction Motors)

- Keep the escape and access routes visibly free from smoke.
- Facilitate fire-fighting operations by creating a smoke-free layer
- Delay and / or prevent back draught, flashover and escalation of fire
- Reduce thermal effects on structural components
- Reduce damage caused by decomposition of products and hot toxic gases

Overview

Emergency smoke removal systems are installed in a wide variety of building types including: shopping malls, factories, warehouses, theatres, atria and complex buildings, enclosed car parks, road and rail tunnels.

Their value in facilitating the evacuation of people from buildings, reducing damage and financial loss by preventing smoke logging, reducing roof temperatures, retarding the lateral spread of fire and allowing fire-fighters to locate the source of fire - is firmly established.



Temperature and time combinations

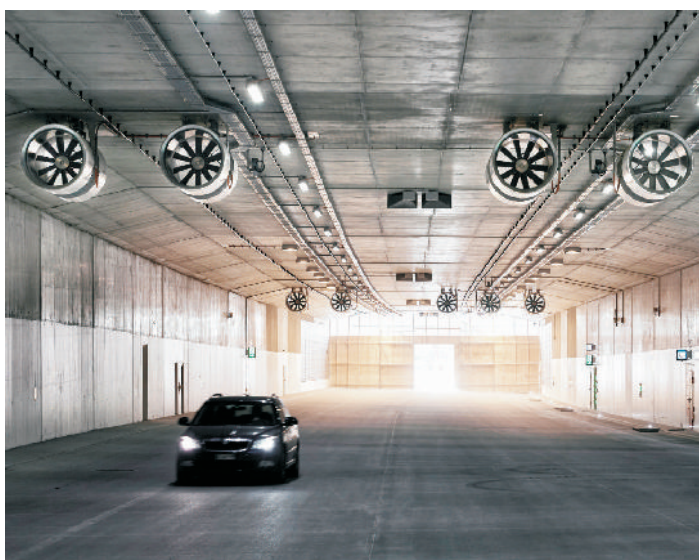
Inferno Series motor is capable to withstand heat of smoke and fumes produced by a fire for a number of specified temperature and time combinations. Motor designs are available for the two modes of operation:

1. S1 duty, continuous running at normal ambient, plus once only S2 duty short time rating for emergency.
2. S2 duty short time rating for emergency.

When the emergency smoke and fume extraction system is activated, the motor operates for the period of time defined on Nameplate of motor.

EN 12101-3 classifies combinations of temperature and time as shown in the table below.

Class	Temperature	Minimum Functioning Period (in minutes)
F180	180	120
F200	200	120
F250	250	120
F300	300	60
F300	300	120
F400	400	120



Testing & Test Certificates

These motors have been successfully tested & approved by Authorized agencies as per EN 12101-3 Standard.

Electrical/mechanical features

Range :

Inferno series ranges from 71 to 315 Frames as per IS, with frame to output ratio same as per standard.

*For other standards frame sizes, please consult with our Marketing team.

Voltage & frequency :

Inferno Series motors are most often manufactured for operation on a 3-phase supply, 380-400-420 Volts & 50Hz.

*Non-standard voltages as well as 60Hz are available on request.

Terminals and cable connections :

As standard Inferno Series motors are supplied without terminal boxes, but have an adapter plate and 1 meter loose leads (above 71 frame & up to 160 frame) & 1.5 meter loose leads (above 160 frame & up to 315 frame), which are sleeved to withstand specified temperature and time combinations. Earth wire will be provided as per standard feature with lengths as stated for lead wire. Spare terminal box assembly will be provided with these motors as per standards.

*Motor with terminal box & w/o fly leads is available on request.

**Motor with different lead length is available on request.

Insulation :

The insulation systems and bearing lubrication adopted with Inferno Series motors have been specially selected and tested to ensure that they will withstand the extremes of temperature during the emergency period.

**Mounting :**

Foot Mounting, Flange Mounting are available as per standards.

*For other mounting arrangement please consult with our Marketing team.

Motor Protection scheme :

These motor are provided with IP55 protection scheme.

*For other protection scheme please consult with our Marketing team.

Enclosure & Cooling :

Standard Inferno Series motors are supplied as totally enclosed and cooled by the airstream produced by the driven fan (IC418 cooling).

*Inferno Series motors are available with Totally Enclosed Fan Cooled-TEFC (IC411 cooling) on request.

Paint :

These motors are provided with two pack finish paint RAL 7015 (Slate Grey)

**Accessories :**

These motors can be provided with accessories like RTD, BTD etc. Please contact our marketing team for incorporating same.

Starting Method :

These motors are suitable for DOL/Star-Delta Starting.

*Motors with VFD starts are available on request.

*For motors with speed Variation, please contact with our Marketing team.

Application :

Inferno Series motors are designed for use in automatic Smoke & Heat extraction units. Typical application examples include:

- Tunnels • Airports • Theatres
- Industrial Buildings & Warehouses
- Single & Multi-storey Shopping Centres
- Indoor Car Parks • Underground Stations
- Building Complexes & Atriums
- Staircases • Public Buildings
- Business Malls • Hotels



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