

**NEW**



**NADI**  
INDUSTRIAL FANS

# SMOKE-X



## HIGH TEMPERATURE SMOKE VENTILATION FANS FOR EXTREME CONDITIONS

Engineered for Efficient Smoke  
Extraction (upto 300° C) for  
2 hours and Standard Fume  
Extractions in Normal Conditions

Nadi's smoke vent fans are specially designed, engineered and robustly constructed to withstand the most difficult conditions in fire emergency situations.

Every component (including the motor) of the fan is engineered and selected to withstand 300 Deg C temperature for 2 hours.



### IMPELLER

The heart of the fan is the adjustable pitch aerofoil impellers made from high quality pressure die casting aluminium and imported from Elta Fans, UK.

The impeller blade angles are preset in the factory and loaded in position by pinning after initial run test. The impellers are balanced as per ISO 14694 grade G 6.3 (higher quality of balancing can be achieved on request)

### CASING

All metal fan casing / housing provides a long-lasting and rigid construction. The casing / housing is fabricated from a single sheet with a CO<sub>2</sub> welding process by certified welders. The flanges are roll formed on an automatic flanging / punching machine. The housing is grid blasted and painted to customer's specs / hot dip galvanized as required.

### MOTORS

Foot mounted / pad mounted motors from reliable manufacturers are provided as required with Class H insulation IP 55 enclosure, sealed for life bearing and suitable for normal continuous duty as well as "once only" use under smoke operations at 300 Deg C for 2 hours. Flying leads brought out of the motor are also selected to withstand high temperature and protected in a temperature resistant conduit system to an IP 55 terminal box with ceramic terminals. All fans are guaranteed to perform and tested as per IS 3588.

### SIZES

Fans are available in impeller dia ranging from 350 mm to 2000 mm.

### TYPICAL APPLICATION

- Enclosed car parks
- Marine ventilation
- Power Stations
- Residential / Public buildings
- Shopping Mall
- Software parks
- Stairwell pressurization
- Theaters
- Underground stations

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