

**ITF – Induction Thrust Fan****Range Feature Summary**

- Thrust performance: 50 Newtons / 11.2 lbf
- Available Smoke Vent Categories:
200°C (392°F) / 2 hours
- Fans tested to ISO 13550:1999, and EN12101-3 (High Temperature)
- Motor protection IP55
- Pre-Galvanized sheet steel grade Z2 G275N
- Low profile design for extremely restricted height installations.

IMPELLER

Material/ Manufacture: Fabricated Steel, Backward Curved, Centrifugal Impeller

Balance: In accordance with ISO 14694:2003, Category BV-3, Grade G6.3.

Operation: Corrosion Resistant and suitable for continuous outdoor use.

Impeller Design: Impeller is designed for uni-directional operation.

UNIT DESIGN

Our Induction Thrust Fan (ITF) features a high efficiency centrifugal impeller which provides an enhanced aerodynamic performance and Thrust profile, whilst ensuring the overall product height is kept to a minimum. Due to its compact size, it is ideal for mounting in areas with a particularly stringent height requirement. The back of the unit can also be mounted very close to a solid object or obstruction, without affecting the aerodynamic performance of our product.

Easy Installation: Our ITF product is designed to be mounted directly to the soffit/roof slab to ensure that its installed height is minimized.

MOTOR

Type: Fan motors are of the totally enclosed, Cast Iron, Pad mounted, squirrel cage induction, continuous duty variable torque type and have an ingress protection rating of IP55.

Bearings: These are of the sealed for life.

Motor insulation: Minimum insulation standard is Class "H". The motor temperature rise will be in accordance with, BS5000, EN 60034-1, or EN 12101-3 in cases of Emergency High Temperature applications.

Standard Temperature fans: Fans are designed for Continuous operation from -40°F to +122°F.

High Temperature (HT) Range: Once off emergency use for 392°F (F200) for duration of 2 hours in accordance with EN12101-3.

Electrical Isolator: A suitably compliant isolator (rated for the design temperature) is installed on all units as standard.

Electrical Supply Options:

Three Phase, 60Hz 460v or 208v

MOTOR SPEED CONTROL

Two Speed: Pole Change (PC) or Dahlander two speed motors are reconnected from a single winding via six winding terminals to give two separate pole numbers.

Speed Control: All three phase, single speed, motors are suitable for inverter control.

PERFORMANCE DATA

Testing: The air performance data has been measured by the latest version of British and International Standards: ISO 13350: 1999 Industrial Fans Performance Testing of Jet Fans

The second duty levels quoted (low speed operation) are based on tests carried out under the Woods Air Movement certified laboratory conditions.

HT Certification: The induction fans are high temperature certified to the latest European standard EN12101-3 and are CE compliant.

WARRANTY PERIOD

Our standard warranty period for both the fan and motor is 1 year from date of dispatch.