T-Line 120

VERSATILE EXTRACT FAN UNITS. PARTICULARLY SUITABLE FOR HIGHER AIR TEMPERATURES AND RESISTANCES

- Low/high temperature
- Duty range 0.15 to 11.0m³/sec
- Low energy/high efficiency fans
- Low SFPs to achieve L2 Building Regulations
- Up to 120 °C operating temperature
- Motor out of airstream
- Easy to clean and maintain
- Variety of control options to suit application requirements
- All units suitable for demand ventilation

VES VERSATILE EXTRACT FAN UNITS
part of a complete range of innovative, flexible products from the HVAC experts

VES
Better air for the built environment

T-Line 120

As well as being a versatile extract fan unit for lower temperatures, T-Line is ideal for polluted air extract, including kitchen hood, commercial and industrial processes. The T-Line is suitable for up to 120 ^{O}C constant operating temperatures. T-Line features low energy, high efficiency fans with low SFPs for a wide range of applications and locations. Optional integrated controls and demand ventilation deliver even more energy saving benefits and comfort levels to users, buildings and their occupants. T-Line provides both great value and choice to specifiers, contractors and users alike. This catalogue brings all of that choice to your fingertips.

T-Line Features and Benefits

Energy Saving

Meet regulations, minimise noise and maximise performance.

Simple Installation and Maintenance

Simple connection and pre-installed features save on site costs and reduce lead times. Carefully designed maintenance features minimise downtime and total cost of ownership.

Robust Construction

Excellent build quality ensures minimal noise breakout, low SFPs and air tight performance.

Versatile Options

Versatile location, handing and access options meet the widest range of project requirements.

Energy

Intelligent Controls and demand ventilation enhance performance whilst saving energy and money

BlueSense Intelligent Control

Energy Efficient
Energy efficient units with low SFPs to meet L2 building regulations and Non domestic building services compliance guide. Units are fully tested to BS848 part 1 (airside performance) and DIN 45635-38 (acoustic performance).

High Performance Impellers
Low energy backward curved single inlet impellers for optimised performance. Duties from 0.1 – 11.0m^3/s . IE1 standard efficiency motors on sizes 250 – 400. IE2 High efficiency motors on sizes 350 – 800.

Easy Connections
Fitted with 30mm MEZ flange for easy connection to ductwork and ancillaries.

Differential Tapping Point
Unit airflow is easily commissioned directly at the fan with the use of micro manometer. Removes the requirement for conventional pitot traverse readings.

Pre-wired 'Plug & Play' Motor
Motor is pre-wired to an external isolator with quick change plug connectors to reduce on site wiring and to provide easy maintenance.

Maintenance
Access available on both sides of the unit via removable access doors. With motor mounted out of the air stream and backward curved impellers the units are easy to clean without dismantling.

Excellent Construction
Rigid single skin galvanised sheet steel.

Airtight
High quality, High temperature EPDM memory gasket to ensure a continued airtight seal.

Powdercoat Options
External units are powder coated Signal Grey to RAL7004 as standard, with many other colours available. Plantroom units have natural galvanised finish as standard and can be powder coated if required.

Motor Guard
Motors are rated to IP55 for water and ingress protection. External units are fitted with a protective guard to further protect and prolong motor life.

Weatherproof and Plantroom Options
Weatherproof (W) and plantroom (P) versions available, including adjustable mounting feet for easy installation.

Controls
T-Line 120 with fitted sensor control and commissioning module for differential pressure and air volume. Advanced multi application Inverter. Air quality, temperature, humidity and PIR sensors.

Unit Configuration
Units can be supplied as straight through (PH/WH) or L shaped (PL/WL) configurations. Plantroom units can be mounted for vertical air flow.

Acoustic Control
Acoustic enclosure available for plantroom and external mounting.

T-Line 120 with fitted sensor control and commissioning module for differential pressure and air volume

+

Advanced Multi-Application Inverter

+

Air quality, temperature, humidity and PIR sensors

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BlueSense
Intelligent Control

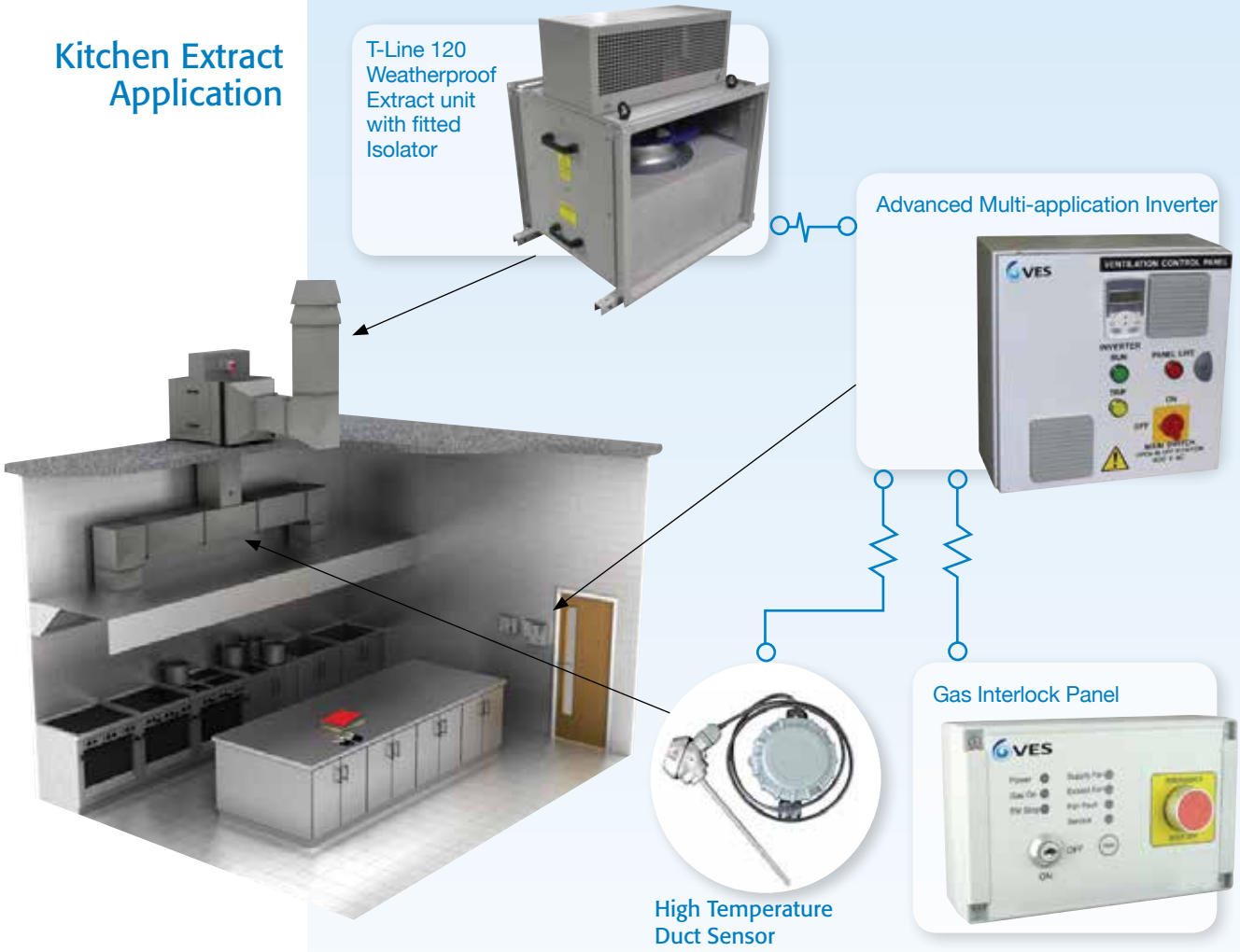
The sign of energy saving products, services and expertise

For more information refer to page 24

Applications

As well as lower temperature applications, the following illustrations show solutions where higher temperatures and humidity are present.

Kitchen Extract Application



High Temperature Duct Sensor

A 400 °C sensor can be mounted within the duct to control the fan speed dependant upon duct temperature; as the temperature of the duct reduces the fan speed can also reduce to save energy.

Using this in conjunction with a VES speed control panel will allow finite adjustment of the speed parameters and temperature control loop tailored to the suit the application requirements.

Gas Safety System

VES also offer a range of Gas Safety Systems that can work in conjunction with the T-Line 120 to provide a versatile kitchen ventilation system. All VES Gas Safety Systems are specifically designed for use in commercial kitchens and to help specifiers, purchasers and installers meet BS6173: 2001, the British Standards required for new or refit/refurbished kitchen ventilation installations.
Our systems combine digital technology and reliable interlocking connections for gas proving in a single easy to install panel.

Features

- Gas proving for use in kitchen applications.
- Airflow interlocked gas solenoid control.
- Low pressure monitoring for incoming gas control.
- Interlocked with fans using Air Pressure Differential switches or current sensors.
- Key operation for user override.
- LED display of system functions.
- Input for remote emergency stop button.

T-Line 120 incorporating Bluesense

T-Line 120 with fitted sensor control and commissioning module for differential pressure and air volume

+

Advanced Multi-Application Inverter

+

Air quality, temperature, humidity and PIR sensors

=

BlueSense Intelligent Control

The sign of energy saving products, services and expertise

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