



*helping to care
for the environment*

AIR HEATING

AIR CONDITIONING

AIR FILTRATION

VENTILATION

WATER HEATING



*A brief description of the
Dravo product ranges and the services we can offer*



INDUSTRIAL & COMMERCIAL AIR HEATING & VENTILATION EQUIPMENT

Dravo are renowned for high quality industrial and commercial gas and oil fired warm air heating equipment with a proven track record on ability extending back over 50 years.

Industrial applications vary considerably from small workshop installations using gas fired suspended unit heaters ranging from 15 to 92 kW heat output to multiple combined heating and ventilation installations like Dravo's nozzle distribution systems. Commercial applications include churches, office complexes, factories, warehouses, distribution centres, workshops etc.

Dravo's 50 years of experience means that we are quite unique in being able to offer system design for any commercial and industrial heating or ventilation requirement with installation and commissioning of projects, complete with a 2 year guarantee.

Availability of ongoing maintenance and service contracts by our own nationwide team of highly skilled service engineers are also available.

DRAVO PLUS CONDENSING warm air heaters



6 MODELS FROM 10kW TO 93kW HEAT OUTPUT

The units are provided with a stainless steel heat exchanger as standard and have up to 38 meter effective throw. The units are fully room sealed with an efficiency of up to 105%.

DRAVO EUROFLOW EMS - N MODULES



11 MODELS IN THE RANGE

These heat exchanger modules are built to a very high quality, with a high performance but sold at a competitive price.

- 11 models in the range to choose from, 27kW to 92kW.
- Gas or oil fired
- The heat exchanger is made entirely of stainless steel to give maximum thermal output with high efficiency.

DRAVO 'AM' and 'AE' gas fired unit heaters

16 MODELS FROM 15kW TO 92kW HEAT OUTPUT



Exceptional quality and high performance gas fired unit heaters. The fully modulating pre-mixed burner will give a 30% energy saving over conventional models.

Additional standard features

- Stainless steel heat exchanger with a 5 year guarantee.
- Maximum 94.5% efficiency.
- Low NOx
- Remote control station.
- Available with horizontal or vertical flue outlet.

DRAVO EUROFLOW RANGE of warm air heaters

11 MODELS FROM 27kW TO 920kW

This extensive range of high quality, high performance, low cost warm air heaters offers an efficient solution to a wide range of commercial and industrial applications.

There is a choice of 11 models with a wide range of outputs that can match any heating requirement, varying from 27kW right through to 920kW heat output.

The units are available for free blowing or ducted operations and therefore offer complete flexibility of installation.



DRAVO FS DIRECTFLOW the fuel saver

6 MODELS IN THE RANGE

The FS is a new generation of space heaters engineered to meet the environmental and energy conservation requirements of the 21st century.

- Six models to choose from 90kW to 450kW (300,000 BTU/H to 1,500,000 BTU/H).
- Can be fired on natural gas or LPG.
- Heat is delivered by nozzle outlet or by ducting.

DRAVO - for all your servicing, breakdown or maintenance requirements on your Heating or Ventilation equipment

Dravo has over 50 years experience in the maintenance, design and the manufacture of Heating and Ventilation equipment for all types of Industrial and Commercial premises.

Whatever system or types of units you have you can call the experts.

Maintenance contracts are also available. For more information on any of our services please call our service hotline on 01604 707023



DRAVO SPARES SERVICE

At Dravo we carry an extensive range of spares equipment for a large range of appliances not only for our own but other manufacturers equipment.

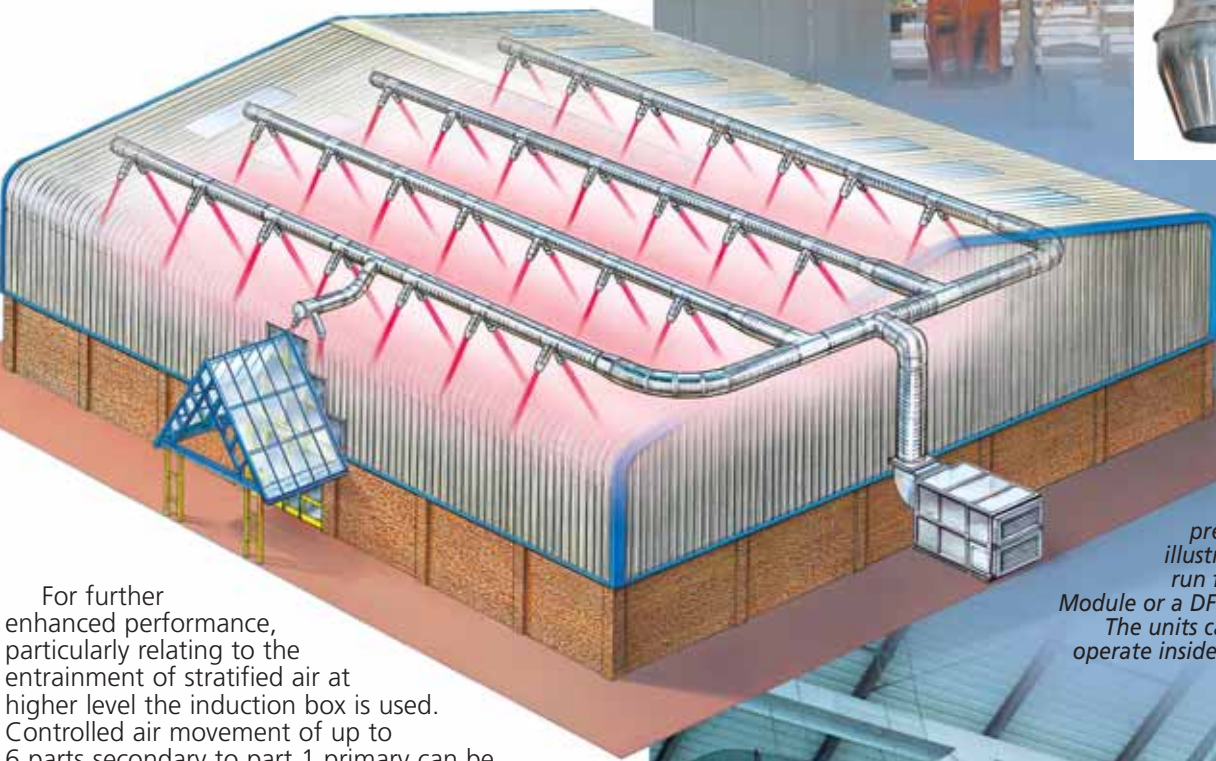
Please contact our spares hotline on - 01604 707022

DRAVO NOZZLE DISTRIBUTION SYSTEMS

Dravo offer within their range both the high velocity nozzle only and the induction box distribution systems.

Both systems have their own advantages and by offering both types we can always accommodate a customer's requirements or a consultants specification.

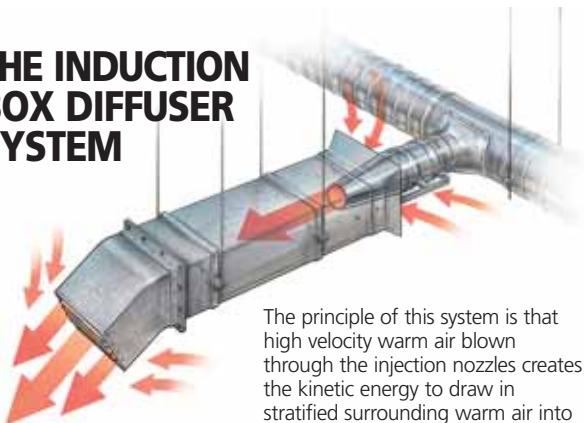
The nozzle only system, by nature of there being less equipment is more cost effective whilst still offering an extremely good and versatile distribution system. It will generate good air movement by generating up to 100:1 entrainment when terminal velocity is reached at low level. Also by not having to accelerate air into an induction box, nozzle velocities are lower, hence saving on static pressure required to be provided by the AHU.



For further enhanced performance, particularly relating to the entrainment of stratified air at higher level the induction box is used. Controlled air movement of up to 6 parts secondary to part 1 primary can be provided through the induction box.

Secondary entrainment is still obtained as the air leaves the induction box in a similar manner to the nozzle. Stratification levels better than 0.3°C per metre rise are available with this system.

THE INDUCTION BOX DIFFUSER SYSTEM



The principle of this system is that high velocity warm air blown through the injection nozzles creates the kinetic energy to draw in stratified surrounding warm air into the mixing box for re-distribution.



THE NOZZLE ONLY SYSTEM

A typical nozzle outlet which clearly shows the inbuilt balancing dampers

The illustration shows a typical arrangement that would be designed and engineered to suit a typical modern factory or warehouse.

A medium to high pressure system to this one illustrated would normally be run from either a Dravo EMS Module or a DF Series air handling unit. The units can be designed to either operate inside or outside the building.

DRAVO AIR HANDLING UNIT



Indirect gas and oil fired units up to 36m³/s airflow and 1840kW output. Direct gas fired up to 36m³/s airflow and 1172kW heat output. They can be installed as part of a Dravo Nozzle Jet System.

STATE WATER HEATERS FROM DRAVO



AN EXTENSIVE RANGE OF DIRECT FIRED WATER HEATERS



- Available with flow rates up to 2226 Litres/hour @44°C temperature rise.
- Oil fired range also available.

DRAVO ELITURBO Destratification Units

The Eliturbo is a breakthrough in electric fan design; it has been engineered to provide constant mixing of air in a large environment. This process eliminates the stratification of temperature and humidity in industrial and commercial buildings.

The Eliturbo helicentrifugal rotor permits uniform mixing of the air without pronounced air draughts. Its action is continuous and facilitates consistent microclimatic conditions.



- UNIQUE PATENTED FAN DESIGN
- LOW DRAUGHT OPERATION
- LOW NOISE OUTPUT
- UP TO 30% SAVINGS ON OPERATING COSTS



Authorised User No. 00138

Energy Technology Listed Appliances, Qualifying for the Governments Enhanced Capital Allowance Scheme

DRAVO RADIANT TUBE HEATERS LOW COST - GAS FIRED

- Highly efficient system that puts the heat directly where you want it or in specific zones.
- Highly effective in buildings with poor insulation
- Ideal for areas where minimal air movement is required
- Ideal when part of a building is semi-open



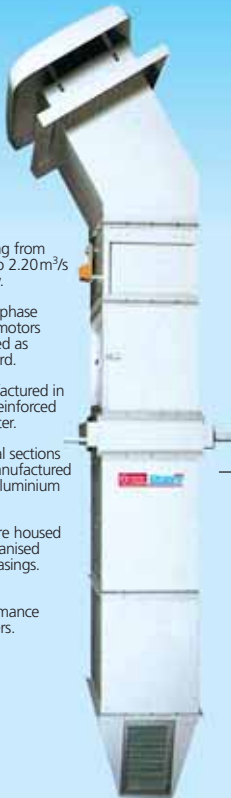
Standards

Built to ISO European standards.



DRAVO VENTILATION EQUIPMENT

DRAVO UNIVERSAL AIR INPUT UNITS



- Ranging from 1.10 to 2.20m³/s airflow.
- 415 3 phase 50Hz motors supplied as standard.
- Manufactured in glass reinforced polyester.
- Internal sections are manufactured from aluminium sheets.
- Fans are housed in galvanised steel casings.
- High performance air filters.

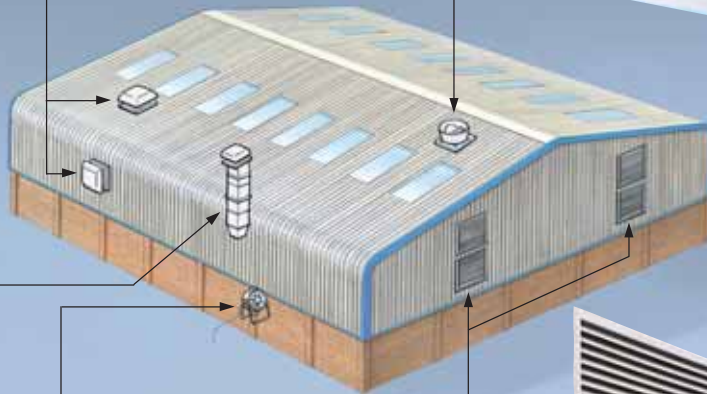
DRAVO LOW SILHOUETTE EXTRACT FANS

Ranging from 1.18 to 4.6m³/s airflow.
Designed for vertical or horizontal roof or wall mounting.



DRAVO HIGH PERFORMANCE VERTICAL DISCHARGE FANS

Ranging from 1.35 to 5.29m³/s airflow.
The unique cowl design creates an extremely high velocity ensuring both effective and efficient dispersion of exhaust fumes.



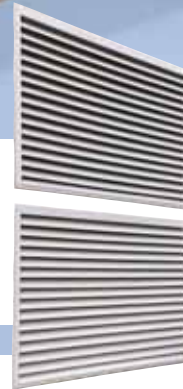
DRAVO PORTABLE MAN FANS

Ranging from 0.861 to 5.083m³/s airflow



DRAVO EXTERNAL AIR INLET LOUVRES

Fitted with bird mesh screen and/or air filter panels.



OTHER SERVICES DRAVO CAN OFFER YOU

- Surveys.
- Design assistance.
- Installation.
- Commissioning.
- National 24 hour after sales service.
- Maintenance.

Technical literature

- More comprehensive and full technical specification leaflets are available on most of our products.

For further information on any of our products please contact:

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