

Economaire

Warm Air Heating
Solutions



ECONOMAIRE RANGE
OF AIR HEATERS

RELIABILITY YOU CAN TRUST



A Warm Welcome

Johnson & Starley have been established since 1922 and have long been recognised as the UK's leading supplier of innovative Home Comfort Solutions to the UK domestic heating market.

The company helped to pioneer the first popular domestic central heating system in the post war period and since then its innovative and exciting approach to the market has resulted in a succession of the highest quality heating and ventilation solutions.

As a supplier to the installer, developer, private and social housing sectors, the company has earned wide recognition for the quality, reliability, ease of installation, quiet operation and long life of its products.



Contents

- p3 Control Clock
- p3 Energy Efficiency Performance
- p3 Electronic Filtration
- p4 Economaire 25
- p4 Economaire 31
- p5 Economaire 32
- p5 Economaire 50
- p6 Economaire 65
- p6 Economaire 90
- p7 Flue Information



HIGH EFFICIENCY BOILERS

VENTILATION & HEAT RECOVERY

WARM AIR CENTRAL HEATING

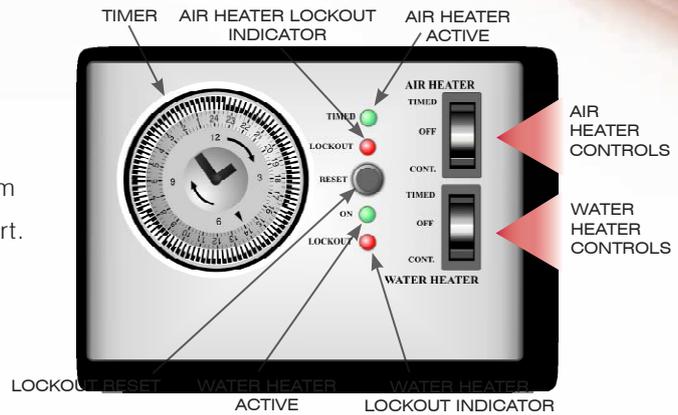
FILTER & CLEANERS

WATER HEATERS & CYLINDERS

HOME COMFORT SOLUTIONS

Economaire is a family of warm air heaters designed to meet the standards expected of a central heating system for the millennium. The heart of the design is an electronic panel utilising digital technology and microprocessor control. Critical management of flue gases and heat exchanger temperatures result in the warmth delivered to each room being accurate to $\pm 0.1^{\circ}\text{C}$, ensuring exceptional comfort. As the system heats the air direct, warm up time is virtually immediate, and system efficiency is optimised.

Control Clock



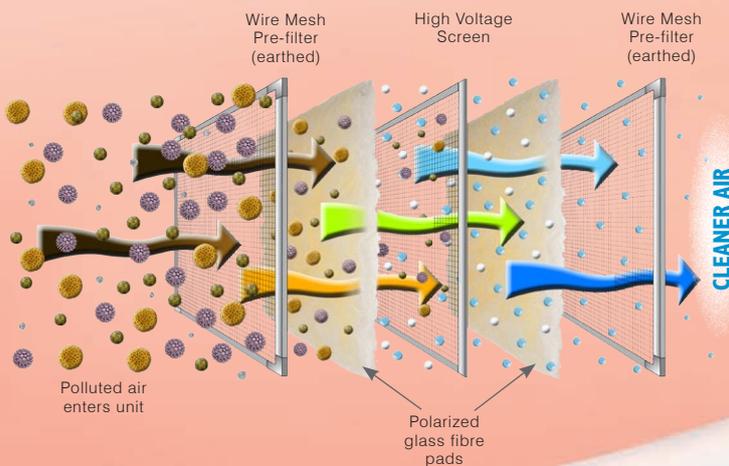
Energy Efficiency Performance

- ◆ ECO Electronic control system as standard
- ◆ Self diagnostics panel
- ◆ Fanned flue enables management flue gases and offers vertical and horizontal flue options
- ◆ Digital control technology via microprocessor gives improved comfort conditions
- ◆ Infinitely variable supply air fan and modulating burner enables output to match heating demand

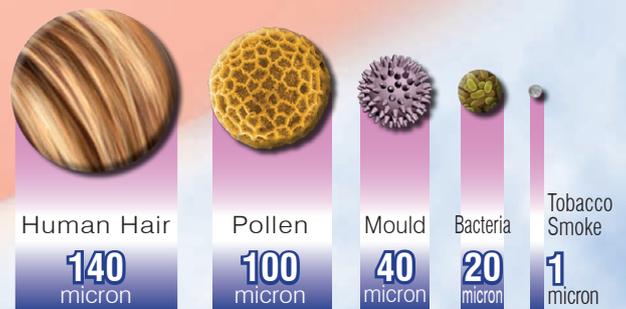


- ◆ Automatic ignition returns efficient use of fuel
- ◆ Optional Cleanflow electronic filtration
- ◆ Water heater option for gravity fed or pumped circuit
- ◆ Models available for compartment, free standing or slot fix application
- ◆ Optional rear rising duct kit only for the 31 & 32.

Electronic Filtration



The option of **Cleanflow Electronic Filtration** will provide your system with the added benefit of filtered air within the home. With the heating unit running on full demand the air in the house will pass over the heater six times per hour. At every pass the air will be filtered and 95% of airborne pollutants down to 1 micron removed. Particles such as pollen, house dust and cigarette smoke will be removed.



Economaire 25

Specifications

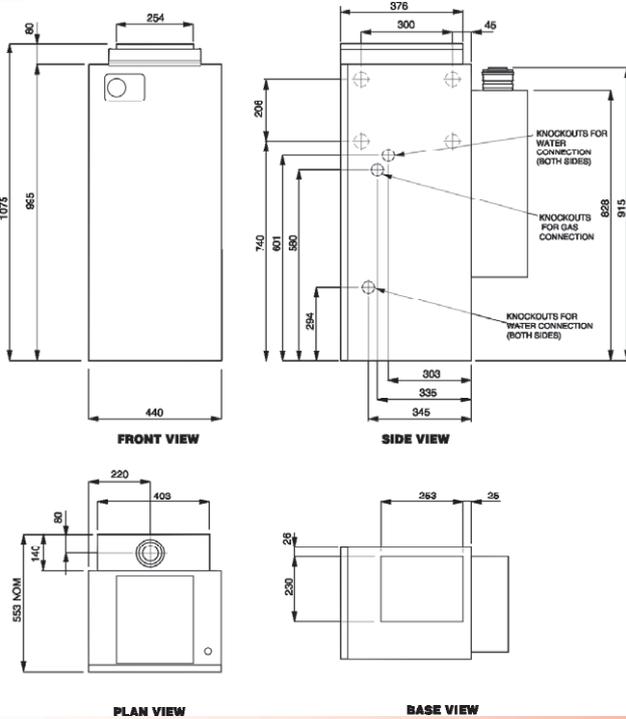
Air heater:	Economaire 25
Max Output:	7.3kW (25,000Btu/h)
Weight:	48Kg
Nox Class:	1
Water circulator:	Intejan
Max Output:	3.5k/w (11,900Btu/h)
Weight:	(Including Water heater)
	53Kg
Nox Class:	1



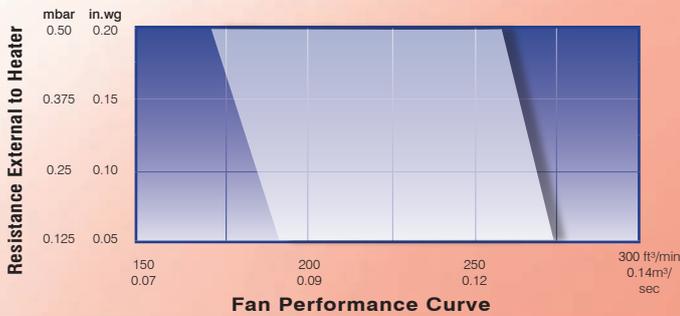
Options

- Heater only: Economaire 25
- With Circulator: Economaire Intejan 25

Dimensions



Fan Performance



Economaire 31

Specifications

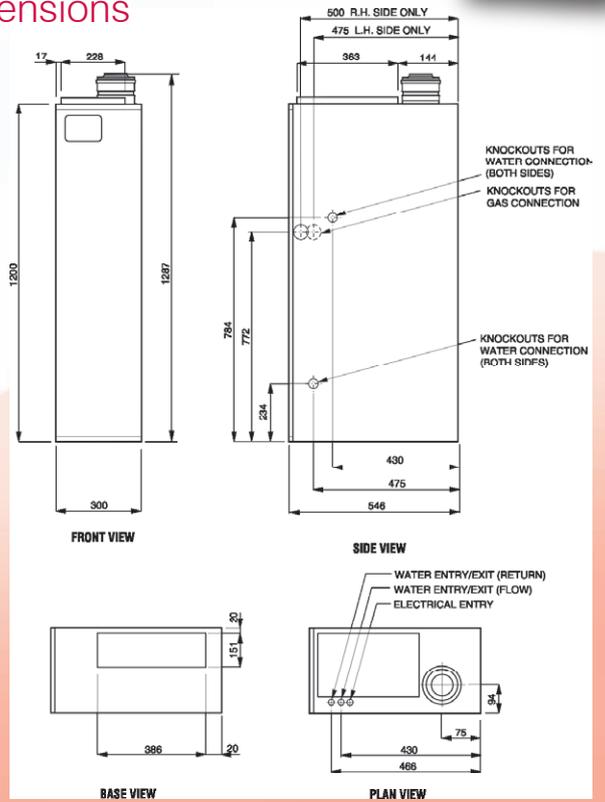
Air heater:	Economaire 31
Max Output:	8.8kW (30,000Btu/h)
Weight:	54Kg
Nox Class:	1
Water circulator:	Intejan
Max Output:	3.5k/w (11,900Btu/h)
Weight:	(Including Water heater)
	59Kg
Nox Class:	1



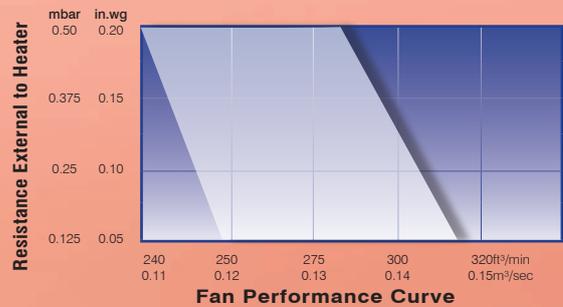
Options

- Heater only: Economaire 31
- With Circulator: Economaire Intejan 31

Dimensions



Fan Performance



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HOME COMFORT SOLUTIONS

Economaire 32

Specifications

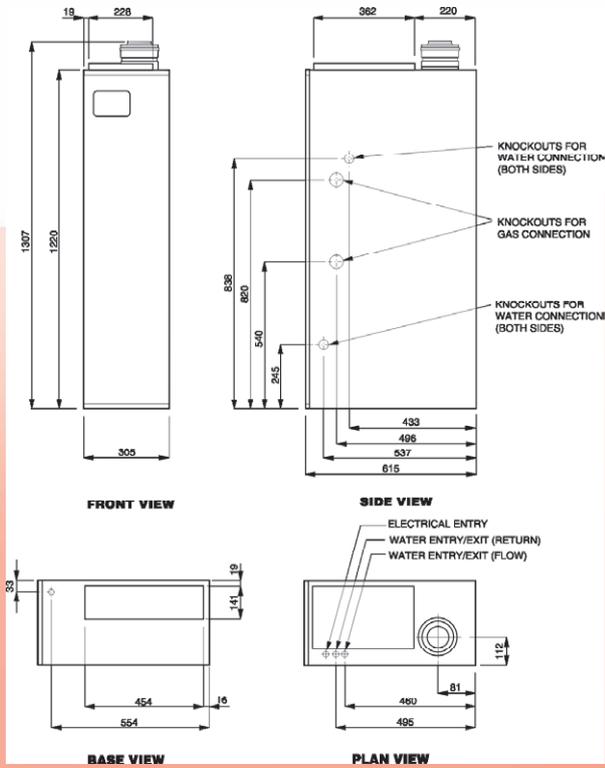
Air heater: Economaire 32
 Max Output: 9.4kW (32,000Btu/h)
 Weight: 65Kg
 Nox Class: 1
 Water circulator: Intejan
 Max Output: 3.5k/w (11,900Btu/h)
 Weight: (Including Water heater)
 70Kg
 Nox Class: 1



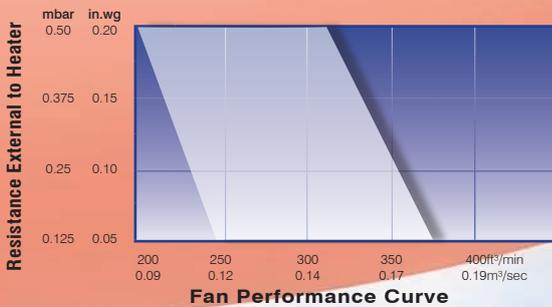
Options

Heater only: Economaire 32
 With Circulator: Economaire Intejan 32

Dimensions



Fan Performance



Economaire 50

Specifications

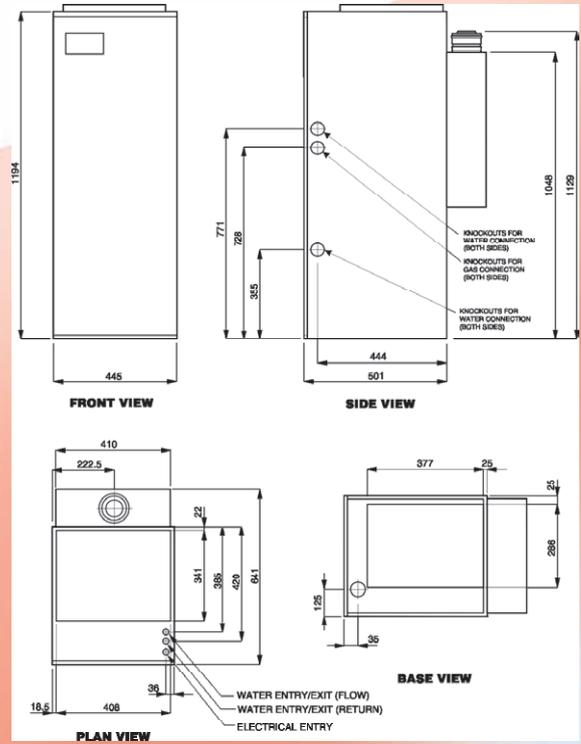
Air heater: Economaire 50
 Max Output: 14.7kW (50,000Btu/h)
 Weight: 67Kg
 Nox Class: 1
 Water circulator: Intejan
 Max Output: 3.5k/w (11,900Btu/h)
 Weight: (Including Water heater)
 72Kg
 Nox Class: 1



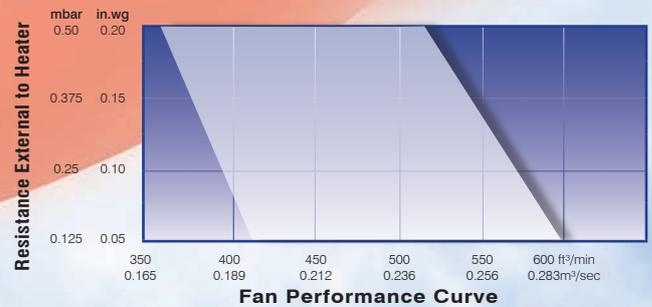
Options

Heater only: Economaire 50
 With Circulator: Economaire Intejan 50

Dimensions



Fan Performance



Economaire 65

Specifications

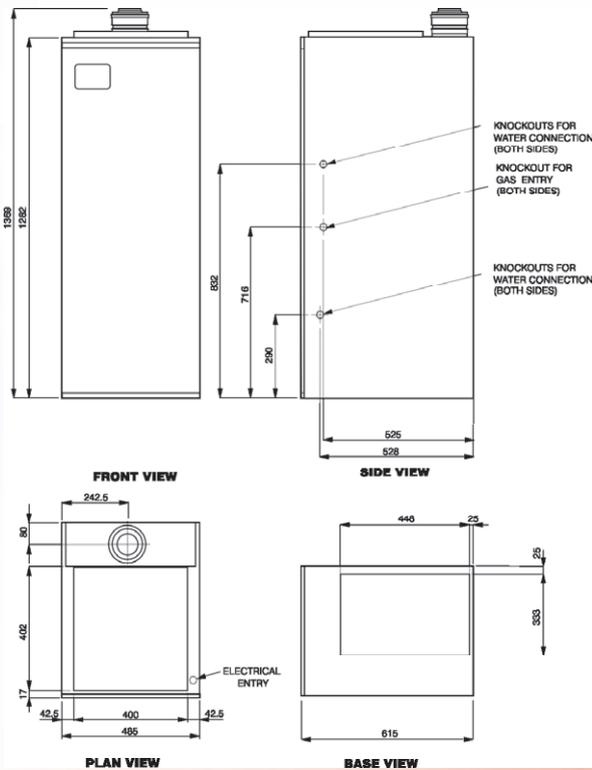
Air heater: Economaire 65
 Max Output: 19.1kW (65,000Btu/h)
 Weight: 85Kg
 Nox Class: 1
 Water circulator: Intejan
 Max Output: 3.5k/w (11,900Btu/h)
 Weight: (Including Water heater)
 90Kg
 Nox Class: 1



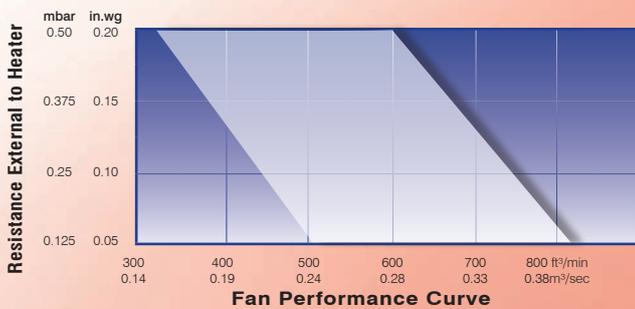
Options

Heater only: Economaire 65
 With Circulator: Economaire Intejan 65

Dimensions



Fan Performance



Economaire 90

Specifications

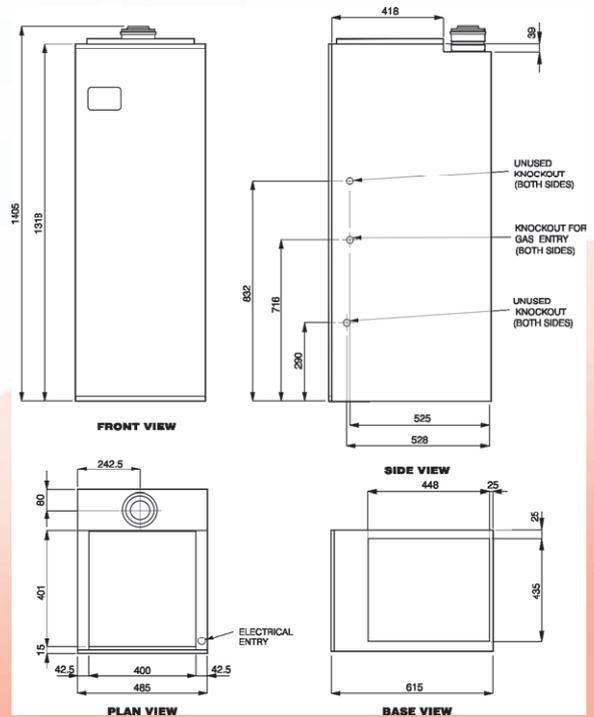
Air heater: Economaire 90
 Max Output: 26.4kW (90,000Btu/h)
 Weight: 92Kg
 Nox Class: 1



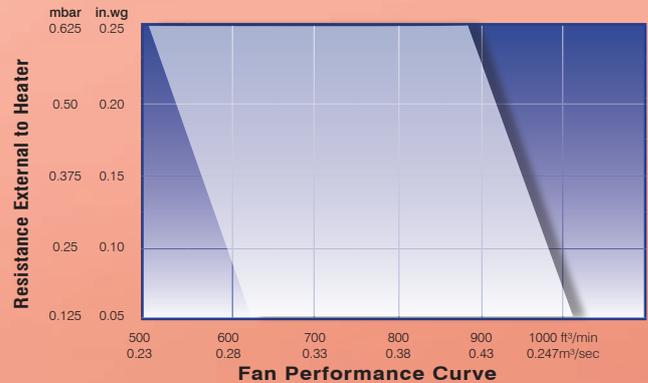
Options

Heater only: Economaire 90

Dimensions



Fan Performance



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Flue Information

The flue path can be horizontal or vertical. For maximum equivalent flue lengths and flue size see tables. To calculate equivalent length refer to example where:-

4" Flue (100mm / 60mm)

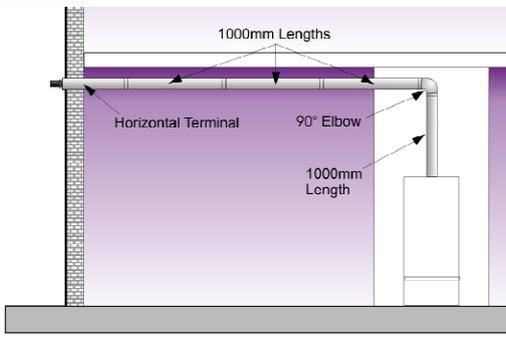
- 45° = 1m equivalent length
- 90° = 2m equivalent length
- Terminal = include at 0
- Flue Pipe = include length of flue

5" Flue (125mm / 80mm)

- 45° = 1.5m equivalent length
- 90° = 3m equivalent length
- Terminal = include at 0
- Flue Pipe = include length of flue

HEATER	FLUE SIZE	EQUIVALENT MAXIMUM LENGTH VERTICAL or HORIZONTAL
ECONOMAIRE 25	4"	12 m
ECONOMAIRE 31	4"	12 m
ECONOMAIRE 32	4"	12 m
ECONOMAIRE 50	4"	12 m
ECONOMAIRE 65	5"	18 m
ECONOMAIRE 90	5"	18 m

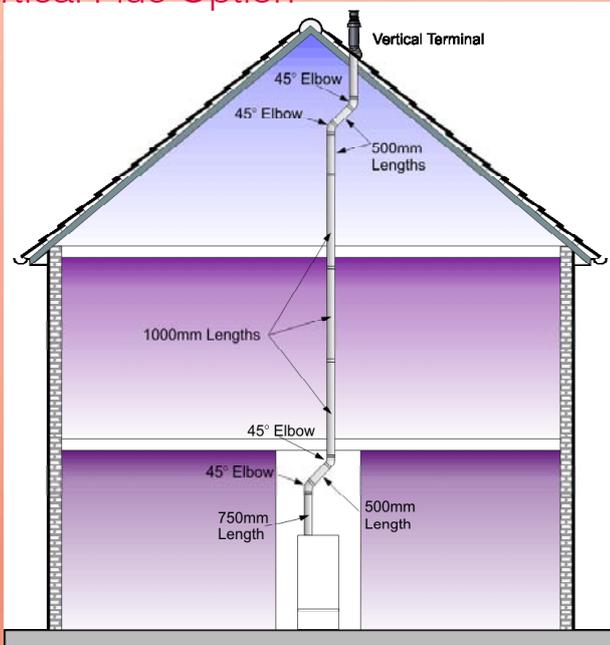
Horizontal Flue Option



Equivalent Length

FROM HEATER	4" FLUE	5" FLUE
1000mm Flue Extension	1000mm	1000mm
90° Elbow	2000mm	3000mm
1000mm Flue Extension	1000mm	1000mm
1000mm Flue Extension	1000mm	1000mm
1000mm Flue Extension	1000mm	1000mm
Horizontal Terminal	-	-
TOTAL	6 m	7 m

Vertical Flue Option



Equivalent Length

FROM HEATER	4" FLUE	5" FLUE
750mm Flue Extension	750mm	750mm
45° Elbow	1000mm	1500mm
500mm Flue Extension	500mm	500mm
45° Elbow	1000mm	1000mm
1000mm Flue Extension	1000mm	1000mm
1000mm Flue Extension	1000mm	1000mm
1000mm Flue Extension	1000mm	1000mm
500mm Flue Extension	500mm	500mm
45° Elbow	1000mm	1500mm
500mm Flue Extension	500mm	500mm
45° Elbow	1000mm	1500mm
Vertical Terminal	-	-
TOTAL	9.25 m	10.75 m

Johnson & Starley are the leading UK & European manufacturers of a complete range of **Domestic Warm Air Heaters**. All the heaters suit both **Replacement** and **Upgrade** needs and are compliant with the new (2005/6) amendments to Part L of the Building Regulations.

HOME COMFORT SOLUTIONS

Company Details

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Fax Number **01604 767408**

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Fax **01604 764879**

Spares

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Fax **01604 762884**

Service

Telephone **01604 707011**
Fax **01604 707017**

Warm Air Upgrade Service

Telephone **01604 707026**
Fax **01604 707017**



COMMERCIAL & INDUSTRIAL H&V SOLUTIONS

Company Details



Johnson & Starley Dravo Division Industrial H&V

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Fax Number **01604 706467**