

Energy Efficient Heat Recovery

SAP Appendix Q listed



RELIABILITY YOU CAN TRUST

www.johnsonandstarley.co.uk



All New LE155 & LE250 Energy Efficient Heat Recovery

Modern construction and refurbishment standards are guided by environmental issues and energy conservation, resulting in dwellings with improved insulation and energy efficiency.

The dwelling becomes tightly sealed with much reduced adventitious ventilation. A lack of ventilation not only produces an uncomfortable living environment, but also puts the fabric of the building, and its contents, at risk from condensation. To overcome these problems, the dwelling needs to be ventilated (i.e. the stale moisture laden air replaced with fresh air) and the most efficient method is to use a mechanical ventilation system with heat recovery.

Using this method the air can be managed to accurately control the amount of replacement and the fresh air is pre-warmed indirectly by the extracted air.

An average family of four can generate 5-15 litres of water vapour per day and with no means of escape it will migrate to other parts of the house and condense on cooler surfaces.

All models incorporate the Johnson & Starley aluminium heat exchanger. It is robust for long life, has a high efficiency rating and is easily removed for maintenance purposes.



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LE155
LE250



Aluminium Plate Heat Exchanger

HIGH EFFICIENCY BOILERS

WARM AIR CENTRAL HEATING

VENTILATION & HEAT RECOVERY

FILTER & CLEANERS

WATER HEATERS & CYLINDERS

HOME COMFORT SOLUTIONS

New Energy Efficient Motors

SAP APPENDIX Q LISTED

How The System Works

Whole house mechanical ventilation with heat recovery will eradicate condensation and its damaging effects and provide a cleaner, fresher living environment within the dwelling.

Stale, moist air is extracted from 'wet' rooms through grilles/cooker hood (if fitted), passed across an aluminium plate heat exchanger to remove the heat, and the residue is exhausted to atmosphere. Fresh filtered supply air is drawn across the heat exchanger, warmed by the retained heat and distributed through ceiling mounted grilles to 'dry' rooms.

The unit can also be fitted in a roof space or, wall mounted in a utility room or cupboard. A range of remote control options are available - See page 5 for details.





LE155 Heat Recovery with optional cooker hood fitted

FEATURES

- EC fan motors. Energy efficient fan motors, approximately half the power consumption of AC fans.
- Integral commissioning panel for easy and accurate normal running and boost setting.
- Aluminium heat exchanger for efficiency, long life and ease of maintenance.
- White or steel effect finish to match with modern designs.

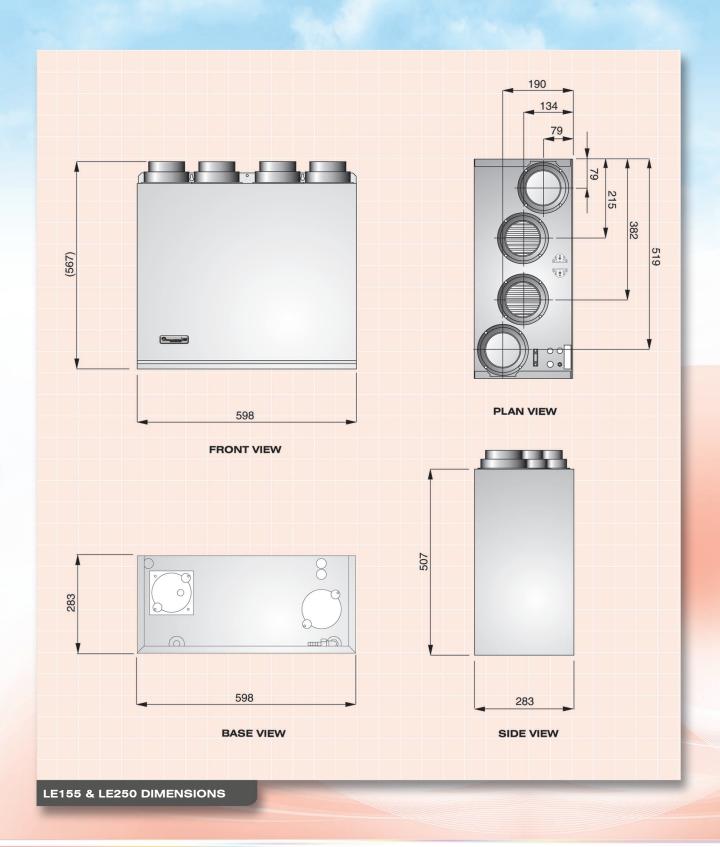


CHS & CHW COOKER HOOD

When siting the LE155 or LE250 above a cooker hob, the optional slim line cooker hood can be fitted to capture moisture laden air and cooking smells at source.

The hood is complete with filter, lighting, boost and summer mode switching.

Technical Dimensions



HIGH EFFICIENCY BOILERS

WARM AIR CENTRAL HEATING

VENTILATION & HEAT RECOVERY

FILTER & CLEANERS

WATER HEATERS & CYLINDERS

HOME COMFORT SOLUTIONS

Controlled Ventilation

Accurate management of supply and extract rates is essential to achieve effective and efficient ventilation of a dwelling. The LE range of Heat Recovery units incorporate a commissioning panel for use by the installer. Extract rates can be accurately set for normal and boost settings.

Switching Options



Commissioning Panel

LE155 & LE250

Installed with CHW or CHS Cooker Hood

The boost extract rate will be set at the commissioning panel during installation. In this application the boost facility can be activated by the switch on the cooker hood

Additionally, boost can be controlled from a remotely sited Johnson & Starley speed controller (optional). The unit can also be wired to facilitate other boost switching i.e. humidistat, lighting circuit etc.



LE155 & LE250

Installed without Cooker Hood

The boost extract rate will be set at the commissioning panel during installation. For boost activation and summer mode switching, a number of optional Johnson & Starley controls are available.

The unit can also be wired to facilitate other boost switching i.e, humidistat, lighting circuit etc.



Remote Summer Switch



Remote Speed Boost



Remote Boost & Summer Mode Switch



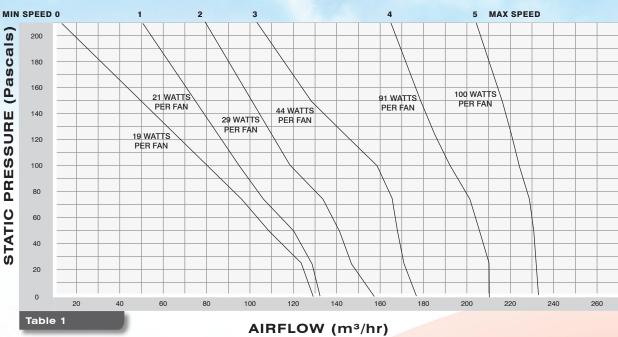
Remote Speed Controller

Fan Performance Graphs

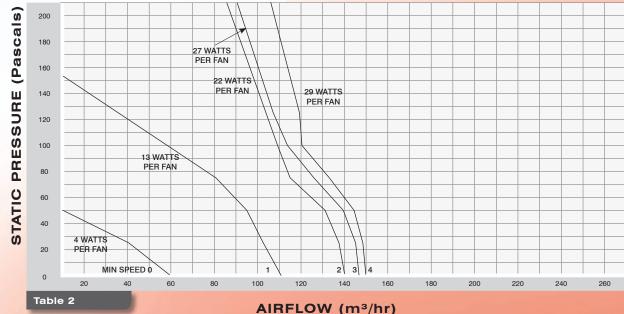
(NOTE:- Performance graphs shown for two extracts, kitchen & bathroom)

LE155

300ST SETTING







HIGH EFFICIENCY BOILERS

WARM AIR CENTRAL HEATING

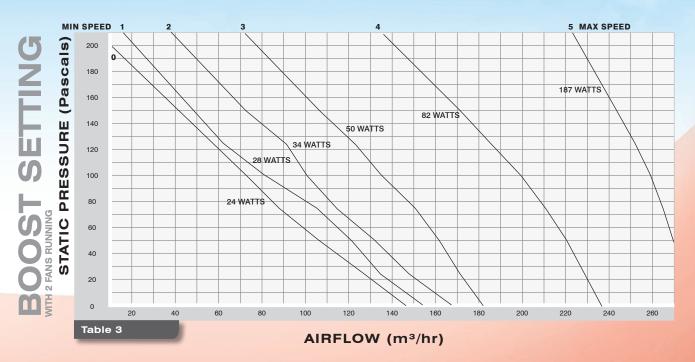
VENTILATION & HEAT RECOVERY

FILTER & CLEANERS

WATER HEATERS & CYLINDERS

HOME COMFORT SOLUTIONS

LE250





Johnson & Starley

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

Website Address www.johnsonandstarley.co.uk

> Email sales@johnsonandstarley.co.uk

> > marketing@johnsonandstarley.co.uk

01604 762881 (Main switchboard) Telephone Number

> 01604 767408 Fax Number

Sales

Telephone 01604 707012

> 01604 764879 Fax

Spares

Telephone 01604 707012

Fax 01604 762884

Service

Telephone 01604 707011

01604 707017 Fax

Warm Air Upgrade Service

01604 707026 Telephone

01604 707017 Fax

COMMERCIAL & INDUSTRIAL H&V SOLUTIONS

Company Details





Johnson & Starley Dravo Division Industrial H&V

Website Address www.dravo.co.uk

> Email dravo@johnsonandstarley.co.uk

01604 707022 Telephone Number Fax Number 01604 706467

HOME COMFORT SOLUTIONS

Rhosili Road, Brackmills, Northampton NN4 7LZ

In the interests of continuous development Johnson & Starley reserve the right to change specification without prior notice.