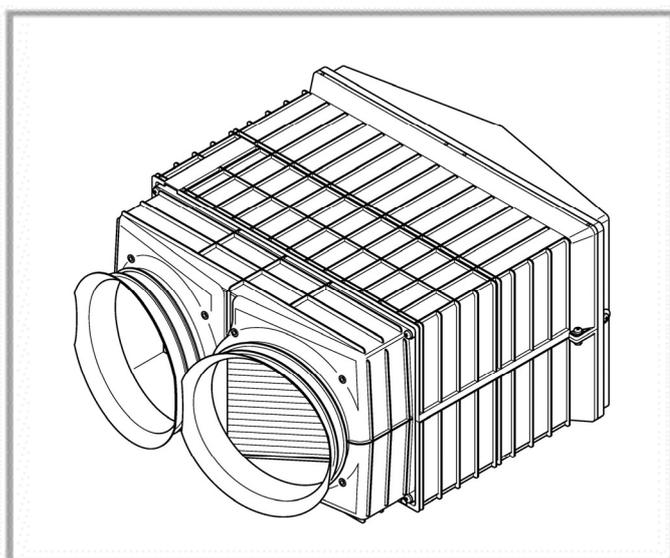


# HR500IP

Passive Semi-Remote  
Wall Mounted Heat Recovery Unit  
with Spigot Connections.

Installation Instructions



Stock Ref. N°  
370447 - HR500IP

***Vent-Axia***®

PLEASE RETAIN THESE INSTRUCTIONS WITH THE PRODUCT.



## IMPORTANT SAFETY INFORMATION



**PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE COMMENCING INSTALLATION.**

1. Do not install this product in areas where the following may be present or occur:

- Excessive oil or a grease laden atmosphere.
- Corrosive or flammable gases, liquids or vapours.
- Subject to direct water spray from hoses.
- Ambient temperatures higher than 40°C.
- Possible obstructions that may hinder access to or removal of the unit.

2. All wiring of the system must be in accordance with the current IEE wiring regulations BS7671, or appropriate standards of your country. Installation should be inspected and tested by a suitably qualified person after completion.

3. Ensure the mains supply (voltage, frequency and phase) complies with the rating labels on the inline fans (Not provided).

4. Precautions must be taken to avoid the back-flow of gases into the building from the open flue of gas or other fuel-burning appliances.

5. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

6. Young children should be supervised to ensure that they do not play with the appliance.

## INSTALLATION GUIDANCE

1. The installer is responsible for the installation and electrical connection of the system on site. It is the responsibility of the installer to ensure that the equipment is safely and securely installed and left only when mechanically and electrically safe.

2. All regulations and requirements must be strictly followed to prevent hazards to life and property, both during and after installation, and during any subsequent servicing and maintenance.

## Disposal

This product should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority for recycling advice.



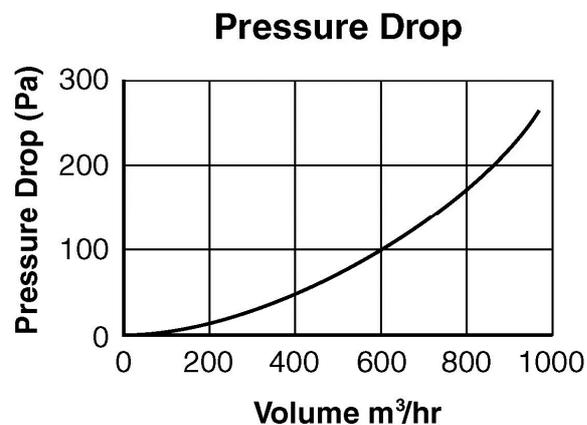
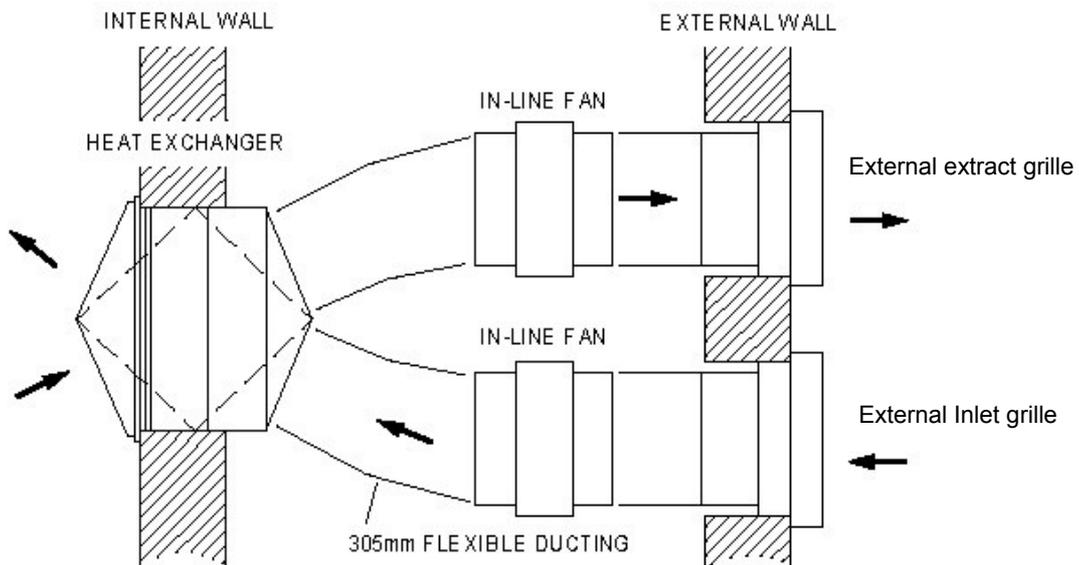
## Introduction

The Vent-Axia HR500IP unit is designed for mounting in internal walls for installations using ducted extraction and fresh air supply. Air movement is achieved by using in-line duct fans or wall mounted units to suit the length and configuration of ducting systems.

The unit is compatible with Ø300mm flexible duct and is ideally suited for use with in-line fans and external wall louvres.

Concentric reducers are available to convert inlet and exhaust spigots to 250mm or 200mm diameter for use with alternative sized fans and ducting if required.

## Typical Installation

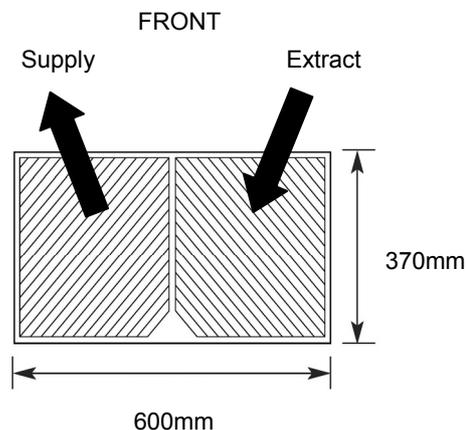
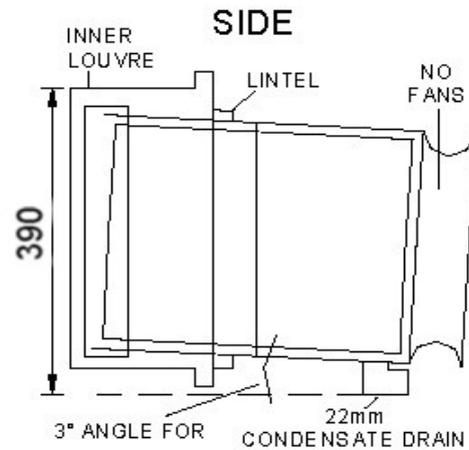
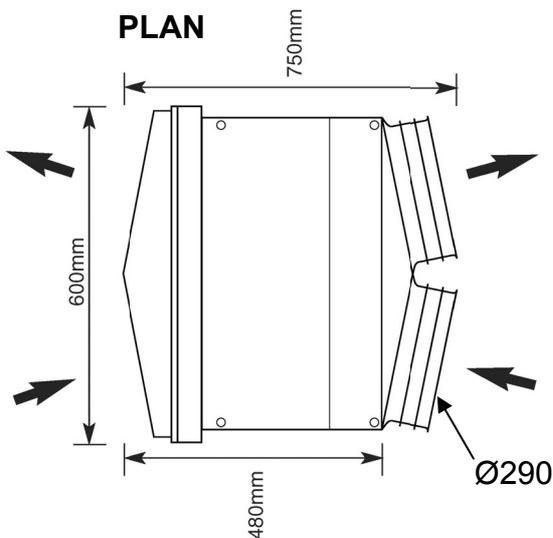
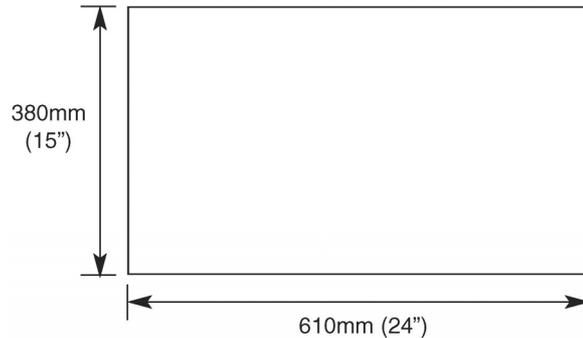


## Installation

The HR500IP unit should be set in an inner wall with the grille flange set flush with the inner surface (a steel lintel is provided for additional support of the building fabric if required). If used this will automatically produce a 3° slope of the unit away from the inner grille for drainage of any condensate which may form during operation.

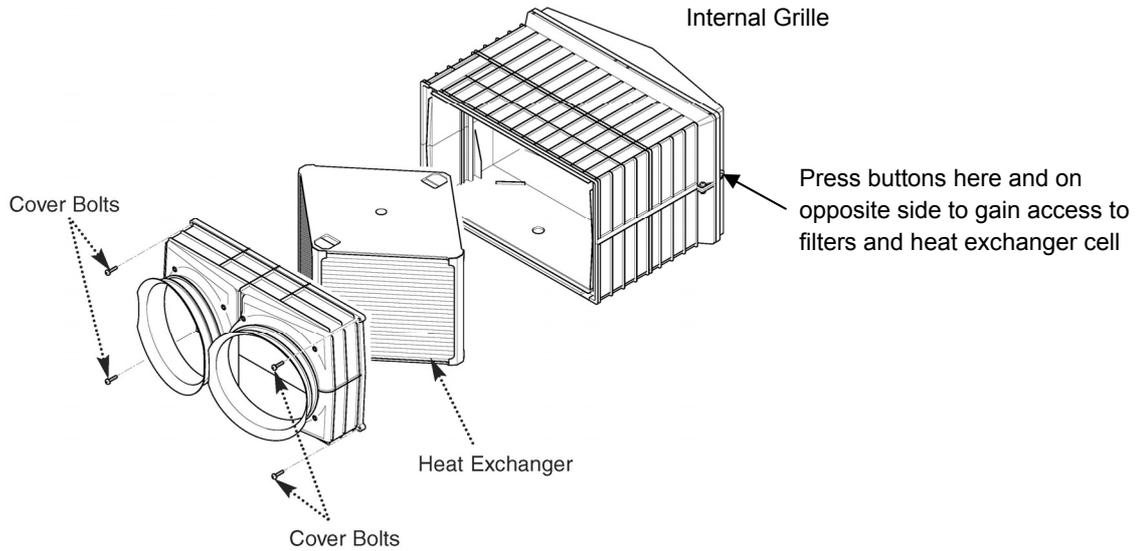
A 22mm drain is situated between inlet and exhaust spigots and should be connected to a suitable drain/soakaway.

Fixing hole opening



## Maintenance & Cleaning

The HR500IP unit requires only occasional cleaning. By depressing the two buttons on either side of the internal grille, the grille, pre-filters and heat exchanger can be easily removed and cleaned by using a vacuum cleaner or by washing in luke warm soapy water.



In heavily polluted and smoky environments it is recommended that the heat exchanger unit is examined for cleaning purposes every 3 months.

Spare heat exchanger cells and filters are available to enable immediate change over of soiled units, which can be cleaned for later use.

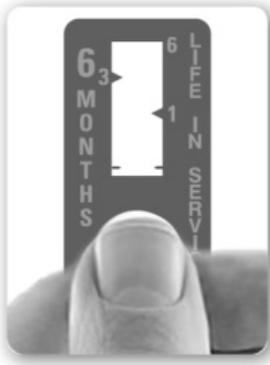
The unit is supplied with four, 6-month Timestrip indicators. A Timestrip is a single use self-adhesive label that once activated will turn red over 6 months. It should be used to keep track of when the filter and cell need cleaning/replacement. Using the self-adhesive backing the strip can be stuck near the units controls, or in a easily visible place.

A normal cleaning schedule for a unit would be as follows:

After installation	Activate the 1st Timestrip
After 6 months	Clean cell, clean filter, activate 2nd Timestrip
After 12 months	Clean cell, clean filter, activate 3rd Timestrip
After 18 months	Clean cell, clean filter, activate 4th Timestrip
After 24 months	Clean cell, <b>replace filters</b> , the new filters will be supplied with 4 additional Timestrip indicators

Note: The above is the minimum requirement; more frequent cleaning intervals may be needed depending on the environment the unit is installed in.

## Activating the Timestrip.



1. Activation: Fully squeeze the activation button between thumb and finger. A red line will appear within 1-2 minutes to show that the Timestrip has been activated.
2. Peel off the backing liner and stick the Timestrip to the Unit or near the controls of the unit. The location should make it obvious to the person responsible for maintenance that the unit needs attention.
3. Once activated, the red dye will indicate elapsed time by moving through the white window and past each time marker. The progress of the red dye is irreversible and each Timestrip can only be used once.

**PRODUCT FICHE**

**For Residential Ventilation Units (Complying Commission Delegated Regulation (EU)  
No 1254/2014)**

Name:	Vent-Axia
Model ID (Stock Ref.) :	HR 500 IP - 370447
SEC Class	A
SEC Value ('Average')	-39.00
SEC Value ('Warm')	-17.84
SEC Value ('Cold')	-76.72
Label Required? (Yes/No=Out of scope)	Yes
Declared as: RVU or NRVU/UVU or BVU	RVU/BVU
Speed Drive	Variable Speed
Type HRS (Recuperative, Regenerative, None)	Recuperative
Thermal Eff: [ (%), NA(if none)]	70.00
Max. Flow Rate (m3/h)	878.40
Max. Power Input (W): (@Max.Flow Rate)	0.00
LWA: Sound Power Level (dB)	17.52
Ref. Flow Rate (m3/s)	0.17080
Ref. Pressure Diff. (Pa)	N/A
SPI [W/(m3/h)]	0.00
Control Factor & Control Typology: (CTRL/ Typology)	
Control Factor; CTRL	1.00
Control Typology	Manual Control
Declared: -Max Internal & External Leakage Rates(%) for BVUs or carry over (for regenerative heat exchangers only), -&Ext. Leakage Rates (%) for Ducted UVUs;	<5% Internal, <5% External
Mixing Rate of Non-Ducted BVUs not intended to be equipped with one duct connection on either supply or extract air side;	N/A
Position and description of visual filter warning for RVUs intended for use with filters, including text pointing out the importance of regular filter changes for performance and energy efficiency of the unit	N/A
For UVUs (Instructions Install Regulated Supply/Extract Grilles Façade)	N/A
Internet Address (for Disassembly Instructions)	www.vent-axia.com
Sensitivity p. Variation@+20/-20 Pa: (for Non-Ducted VUs)	N/A
Air Tightness-ID/OD-(m3/h) (for Non-Ducted VUs)	N/A
Annual Electricity Consumption: AEC (kWh/a)	0.45
Annual Heating Saved: AHS (kWh/a)	
AHS: Average	39.45
AHS: Warm	17.84
AHS: Cold	77.17

## The **Vent-Axia**® Guarantee

Applicable only to products installed and used in the United Kingdom.

For details of guarantee outside the United Kingdom contact your local supplier.

Vent-Axia guarantees its products for two years from date of purchase against faulty material or workmanship. In the event of any part being found to be defective, the product will be repaired, or at the Company's option replaced, without charge, provided that the product:

- Has been installed and used in accordance with the instructions given with each unit.
- Has not been connected to an unsuitable electricity supply. (The correct electricity supply voltage is shown on the product rating label attached to the unit).
- Has not been subjected to misuse, neglect or damage.
- Has not been modified or repaired by any person not authorised by the company.

### IF CLAIMING UNDER TERMS OF GUARANTEE

Please return the complete product, carriage paid to your original supplier or nearest Vent-Axia Centre, by post or personal visit.

Please ensure that it is adequately packed and accompanied by a letter clearly marked "Guarantee Claim" stating the nature of the fault and providing evidence of date and source of purchase.

The guarantee is offered to you as an extra benefit, and does not affect your legal rights

# **Vent-Axia**®

Head Office: Fleming Way, Crawley, West Sussex, RH10 9YX.

**UK NATIONAL CALL CENTRE**, Newton Road, Crawley, West Sussex, RH10 9JA

SALES ENQUIRIES:                      Tel: 0344 8560590                      Fax: 01293 565169

TECHNICAL SUPPORT                      Tel: 0344 8560594                      Fax: 01293 532814

For details of the warranty and returns procedure please refer to [www.vent-axia](http://www.vent-axia) or write to Vent-Axia Ltd, Fleming Way, Crawley, RH10 9YX