Lo-Carbon

Tempra

THROUGH THE WALL HEAT RECOVERY FAN

Installation and Wiring Instructions

PLEASE READ INSTRUCTIONS IN CONJUNCTION WITH ILLUSTRATIONS.
PLEASE SAVE THESE INSTRUCTIONS.

IMPORTANT:
READ THESE INSTRUCTIONS
BEFORE COMMENCING THE
INSTALLATION

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.
- Ambient temperatures higher than 40°C or less than – 5°C.
- Possible obstructions which would hinder the access or removal of the Fan.

SAFETY AND GUIDANCE NOTES

A. All wiring to be in accordance with the current I.E.E. Regulations, or the appropriate standards of your country and MUST be installed by a suitably qualified person.

B. The Fan should be provided with a local isolator switch capable of disconnecting all poles, having a contact separation of at least 3mm.

C. Ensure that the mains supply (Voltage, Frequency, and Phase) complies with the rating label.

D. The Fan should only be used in conjunction with the appropriate Vent-Axia products.

E. The fan should only be used in conjunction with fixed wiring.

F. When the Fan is used to remove air from a room containing a fuel-burning appliance, precautions must be taken to avoid back-flow of gases into the room from the open flue of gas or other appliance. Ensure that the air replacement is adequate for both the fan and the fuel-burning appliance.

G. The Fan should not be used where it is liable to be subject to direct water spray for prolonged periods of time.

H. The horizontal duct should be arranged to slope slightly downwards to the exterior away from the Fan.

I. This appliance is not intended for use by young children or infirm persons without supervision.

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

Disposal
This product should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority for recycling advice.
DESCRIPTION
Through the wall Heat Recovery Fan
The Vent-Axia Lo-Carbon Tempra is suitable for refurbishment or new build, kitchen, bathroom, toilet or utility applications. The unit meets the performance requirements for intermittent extract fans under the Building Regulations Part F 2010 (table 5.1a) and also for continuous running products.

Tempra is available in 6 models

443312 – Tempra P
403832 - Tempra LP (long)  Constant trickle speed with pull cord or switch live to boost airflow.

443310 – Tempra T
403834 – Tempra LT (long)  Constant trickle speed with switch live to boost airflow with adjustable 5-50 min overrun timer and optional 3 minute delay on timer.

443311 - Tempra HTP
403836 – Tempra LHTP (long)  Constant trickle speed with pull cord or switch live to boost airflow with adjustable 5-50 min overrun timer and optional 3 minute delay on timer and internal humidistat adjustable 60- 90% RH.

A. INSTALLATION
WALL MOUNTING
Models P, T & HTP are designed for use in a wall with a maximum thickness of 318mm fitted with a 110mm Soil Pipe or Wall Sleeve (Stock Ref No 445529).
Models LP, LT & LHTP are designed for use in a wall with a maximum thickness of 460mm fitted with a 110mm Soil pipe.

1 Using the template provided mark the 4 wall fixing positions, the hole for the wall pipe and mains cable entry point.

2) Cut a hole through the wall and insert the soil pipe or wall sleeve.
Slope the sleeve slightly downwards away from the fan and cement both ends into position flush with the wall Fig 1.

3) Undo 2 fixing screws and lift off Cover Plate Fig 2 & 3
4) Remove 2 screws and detach Electrical Cover Fig 4

5) Lift where indicated to engage hinges Fig 5 and open Door Fig 6.

6) Feed flexible Mains cable through one of the rear entry points or the side entry point as required. And then the door Fig 7 & Fig 8

7) Fit Chassis to wall with 4 fixing screws carefully aligning the hole in the back of the Tempra with the Wall Pipe Fig 9.
8) Remove screws and Heat Exchanger Retaining Clamp kit Fig 10. (Discard polybag)

9) Insert Heat Exchanger through Chassis and into Wall pipe Fig 11.
Note: Line up key on top of Heat Exchanger with slot in Chassis

10) Fit Heat Exchanger Retaining Clamp with screws provided Fig 12.

11) Close Door and Connect flexible mains cable as described in section B – Wiring, ensure cable clamp is used adjust any settings as required see section C – Setup. Fig 13
12) Re fit Electrical Cover with 2 screws indicated in Fig 14

13) Re fit Cover Plate and tighten 2 screws Fig 15 & 16. Ensure Pull cord is engaged in Lower Slot

14) The Tempra unit is also fitted with a “manual summer setting” which allows the unit to be set to extract only, helping to prevent a dwelling becoming too warm in hot summer conditions. When first installed this shutter/vent should be **open**. Fig. 16 To activate the summer setting it should be shut.

15) Make good on outside wall with the wall Cover bezel provided, ensure the arrow on the bezel is at the top. Fix/seal to the wall with a suitable sealant.

Apply sealant in outer groove on rear of bezel.

**Important:** Please ensure that you apply sufficient sealant to hold the bezel to the wall. (If the wall surface is not suitable for using sealant 2 screws can be located through the 2 bosses provided).

**Note:** Do not seal the bezel to the heat exchanger, this needs to be removed for cleaning at regular intervals.
B. WIRING.

WARNING: THE FAN AND ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING THE INSTALLATION / OR MAINTENANCE.

IMPORTANT

- The fan should only be used in conjunction with fixed wiring.
- The cross-sectional area of supply cord used should range from 1 - 1.5mm².
- Cable entry can only be made from the rear of the fan.
- Allow sufficient flexible mains cable when connecting fan, to ensure hinged door opens freely.
- The fan is suitable for connection to 220-240V 50Hz supply.
- The fan is a class II double insulated product and MUST NOT be earthed.

1. Select and follow the appropriate wiring diagram. (Fig. 18 or 19)

2. Check all connections have been made correctly and ensure all terminal connections and cable clamps are securely fastened.

**Fig 18**
Continuous trickle (6l/s or 9l/s) with pull cord boost facility P, LP and HTP, LHTP models

**Fig 19**
Continuous trickle (6l/s or 9l/s) with switch live boost facility.
C. SETUP

警告：风扇和辅助控制设备在安装或维护期间必须与电源隔离。

图20

Trickle Speed Selection (6l/s or 9l/s) – (Fig. 20)

在慢速运行模式下，风扇可以以6l/s (22m³/h)或9l/s (32m³/h)的流量抽取。当LS / 湿度 / 拉绳连接被切换时，风扇将提升到15l/s (54m³/h)。

- 由工厂设置为6l/s (22m³/h)。
- 如果需要9l/s (32m³/h)的抽取流量，则需移除跳线连接器（JP2）。

Pullcord Operation (P,LP and HTP,LHTP Models)

拉动拉绳可开启或关闭增压。

Timer Adjustment (T,LT and HTP,LHTP Models) (Fig. 20)

时钟仅通过LS连接激活。

1. 控制器由工厂设置为15分钟约。超时时间范围可通过调整控制PCB上的调节器来调整5-50分钟。
2. 若要减少运行时间，请使用小螺丝刀将时钟调节器逆时针旋转。
3. 若要增加运行时间，请使用小螺丝刀将时钟调节器顺时针旋转。
4. 此外，时钟内还包括3分钟延迟，可将其移除（JP3）。

Humidity Set-Point Adjustment HTP Model (Fig. 20)

注意：在安装后，湿度控制器可能会继续运行，直到其适应环境。

1. 控制器由工厂设置为约70% RH。湿度设定点可通过调整控制PCB上的调节器从60-90%RH调整。
2. 降低设定点，请使用小螺丝刀将湿度调节器逆时针旋转。这使控制器更敏感。
3. 提高设定点，请使用小螺丝刀将湿度调节器顺时针旋转。这使控制器不那么敏感。

8
D. MAINTENANCE.

**WARNING:** THE FAN AND ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING MAINTENANCE.

The fan should be cleaned to ensure there is no build up of dirt or other deposits.

1. Remove 2 screws and lift off Cover Plate assembly Fig 21 & 22.

3. Lift where indicated to engage hinges Fig 23 and open Door Fig 24.

3. Remove Retaining Plate, Carefully slide out the Heat Exchanger Fig 25 & 26 and wash in warm water using a mild detergent, dry thoroughly and re assemble in reverse order to above.
E. Spares
The following spares may be ordered from Vent-Axia

<table>
<thead>
<tr>
<th>Item</th>
<th>Part No</th>
<th>Description</th>
<th>Models used</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>445885</td>
<td>Heat exchanger (Short)</td>
<td>P,T &amp; HTP</td>
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<td>2.</td>
<td>445886</td>
<td>Motor chassis assembly</td>
<td>P,L,P,T,L,T,HTP,HTP &amp; LHTP</td>
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<td>3.</td>
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<td>Cover assembly</td>
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<td>Pullcord PCB</td>
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<td>6.</td>
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<td>Timer PCB</td>
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<td>7.</td>
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<td>HTP PCB</td>
<td>HTP &amp; LHTP (only)</td>
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<td>8.</td>
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<td>Pullcord Assembly</td>
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<td>9.</td>
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<td>10.</td>
<td>403878</td>
<td>Heat exchanger (Long)</td>
<td>LP,L,T &amp; LHTP</td>
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## PRODUCT FICHE
For Residential Ventilation Units (Complying Commission Delegated Regulation (EU) No 1254/2014)

<table>
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<td>Lo-Carbon Tempra P - 443312</td>
<td>Lo-Carbon Tempra LP - 403832</td>
<td>Lo-Carbon Tempra T - 443310</td>
<td>Lo-Carbon Tempra LT - 403834</td>
<td>Lo-Carbon Tempra HTP - 443311</td>
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<td>RVU-BVU</td>
<td>RVU-BVU</td>
<td>RVU-BVU</td>
<td>RVU-BVU</td>
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<td>Mixing Rate of Non-Ducted BVUs not intended to be equipped with one duct connection on either supply or extract air side;</td>
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<td>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</td>
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<td>For UVUs (Instructions Install Regulated Supply/Extract Grilles Façade)</td>
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<td>41.68</td>
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<td>AHS: Warm</td>
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<td>AHS: Cold</td>
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</table>
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.

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: 0844 8560590 Fax: 01293 565169
TECHNICAL SUPPORT: Tel: 0844 8560594 Fax: 01293 539209
Web:-www.vent-axia.com Email:- info@vent-axia.com

As part of the policy of continuous product improvement Vent-Axia reserves the right to alter specifications without notice.

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