

# HEX390



*Balanced Pressure Ventilation System with Heat Exchanger*

Providing a cleaner and healthier living environment for your home with a **HEX390**  
**Balanced pressure system**



 **KIWIVAC**  
ADVANCED VACUUM TECHNOLOGY

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# Kiwivac Healthier Homes Initiative



## *HEX390 – Sophisticated, Durable, Efficient.*

The HEX390 is the latest ventilation innovation that brings balanced pressure to the air in your home, ensuring a cleaner, drier and healthier home environment. The HEX390 unit is manufactured in New Zealand. It provides a solution to homes in New Zealand that develop rapid condensation which in turn can produce mould and unwanted odours.

A HEX390 system provides fresh air to your home whilst also retaining some of the heat already created through a heat source (heat pump or fire place) within the home. The unit will ensure fresh air replaces the humid damp air that is built up primarily in the winter months. This product is therefore ideal for homes within New Zealand, especially those in colder climates.



The HEX390 unit provides balanced pressure to your home. This is due to the extracted air from your home heating a polymer inside the HEX390. This will then heat the fresh air which is pulled in from outside the house. During winter this air is much cooler and therefore requires the heated polymer core to supply a comfortable temperature to your home.

During the summer months if the outside temperature exceeds 27°C then the system will automatically shut down as the air will be too warm for your home. This temperature can be adjusted at the Digital Controller (see page 5).

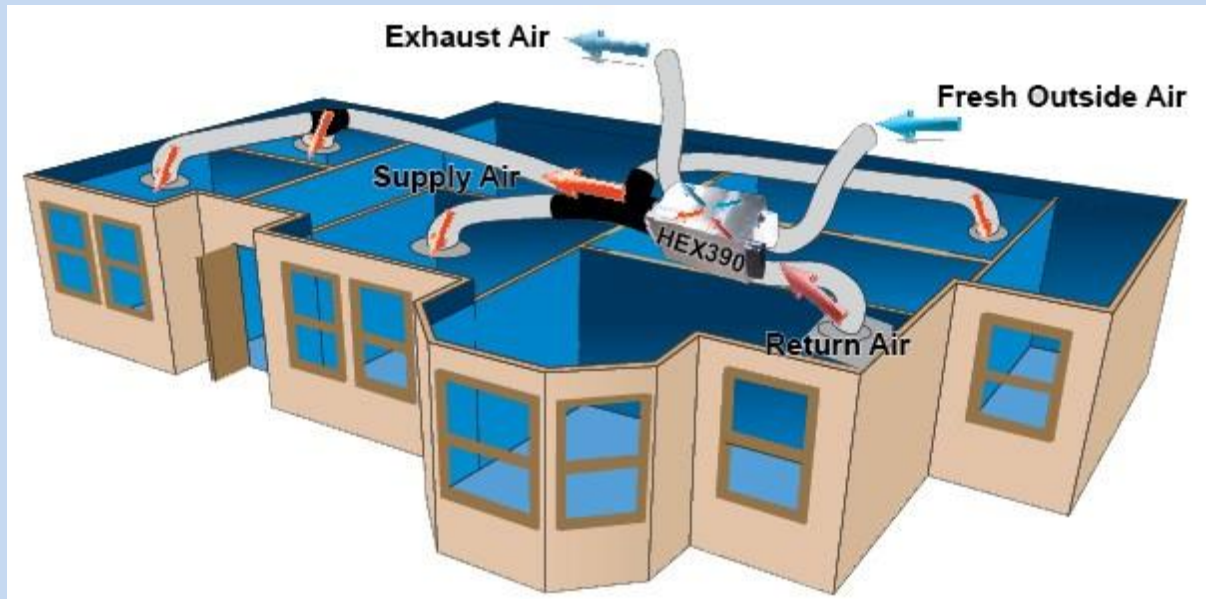


# Kiwivac Healthier Homes Initiative



## *Installation*

The HEX390 ventilation unit will be installed by a qualified tradesperson before which a plan must be developed in order to maximise the effectiveness of the unit.



Installation will take place during the building phase of a new home but can also be worked into renovations or existing homes.

**HEX390 unit:** The unit itself will be installed in an appropriate position within the attic (giving enough room for access to all areas).

**Ducting:** The flexible insulated ducting will run through the attic

**Exterior vents:** These will be installed within the soffit for the return and intake air.

**Diffusers:** Diffusers will be installed into suitable areas of the ceiling within your home

**Digital Controller:** This will run from the unit itself and down into a suitable area of framing within the home, similar to a light switch.

**Drainage:** Excess moisture created within the unit will be drained from the unit to outside the house.

**Filters:** A G7 box filter can be installed for homes in harsher environments.

# Digital Controller

This controller allows the user to adjust fan speed from high to low (fan limits are set in the commissioning menu to suit the size of house and system layout).

The controller will automatically shut down in summer if outside air temperature (OS) exceeds 27°C, this temperature can be adjusted for your own personal preference.

There are a number of other features available at time of installation which will need to be discussed with the installer when the unit is commissioned. They include:-

- Optional winter off mode shuts down the fan automatically when outside temperature (OS) is less than 2°C. This is indicated by “winter” on the unit display.
- Optional User System ON/OFF  
Is available in User Menu, indicated by “OFF” on unit display.
- Optional Filter Timer measures the hours run by the fan and gives a flashing display when the filter needs to be cleaned/ replaced.



- Clock function has battery back-up in the event of a power failure. Time can be set/adjusted by pressing “mode” and “down” buttons together unit “Entering Menus” then “Set Clock” appears. Time can then be adjusted using up & down buttons, once correct time is set, press “mode” to save new setting.



# **Diffusers & Ducting**

## **Supply vents**

Option 1:

Bedroom or study



Option 2:

Bedroom or study



Option 3:

Living area



## **Return vent**

Living area



## **Ducting**

Flexible Insulated Duct



## **Ducting Specifications**

- Tough Mylar out jacket
- Metalized-Mylar inner core
- Fully resistant dry lamination adhesive resin
- High and low pressure suitability
- Low resistance to airflow (correct insulation)
- High resistance to waste permeation
- Significantly dampens mechanical vibrations
- Exceeds current fire requirements
- UV resistant
- Council approved

## **Vent Installation**

All vents are installed in appropriate ceiling space within your home, a technician will provide advice on which vent is suitable for each room. This will ensure air flow is distributed evenly throughout the house thus helping the Hex unit to work as efficiently as possible.

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## New Zealand building compliance

In compliance with clause 1.3 (a) of the general noise standards.  
(NZS 6805)

(ii) Where windows and doors must remain closed to achieve the acoustic design mechanical ventilation shall be provided in accordance with the New Zealand Building Code

*Any building or dwelling that does not comply with Rule 1.3(a) is a non-complying activity*

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A HEX390 unit and a Kiwivac central vacuum system can achieve an absolute healthy home, rid of any unwanted pollutants. The balance pressure system extracts any floating particles into the roof space and into the outside environment. This creates a healthy breathing environment whilst the rest of the unwanted pollutants can be totally removed by a Kiwivac vacuum system.

The two products can be installed simultaneously and for a package deal, we cater for all situations including new builds, renovations and existing homes.



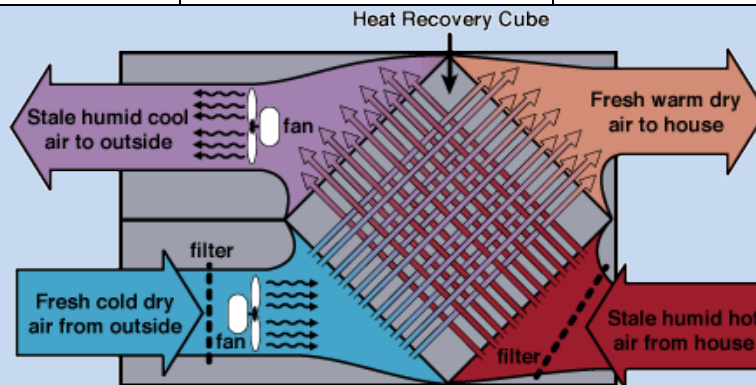
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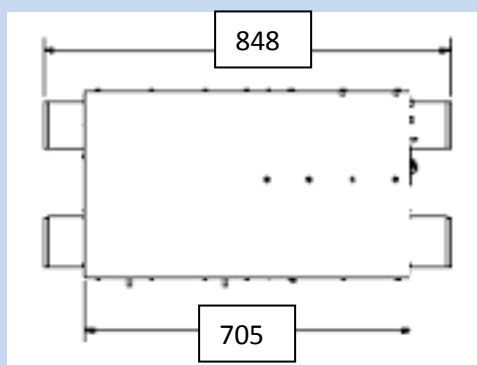
# HEX390 Specifications

Technical Specifications		
Hex390 unit		
Air flow (max)	m <sup>3</sup> /hr	390
Sensible Efficiency (max)	(up to)	80%
Electrical Consumption	Watts	110/110(max)
Weight	Kg	20.75
Filter	Replaceable	EU3
Insulation	Thermal (mm)	5
Fan type	Backward curved centrifugal	
Speed Control		Low/medium/high
Fans speeds	Rpm	1590/2160/2510
Duct connection equivalent diameter	mm	200
Heat Exchanger Type		Cross Flow
Heat Exchanger Material		Robust Polymer Core
Heat Recovery Core		
Dimensions	mm	260 x 260 x 385
Weight	Kg	3.7
Material		Polymer
Type		Cross Flow

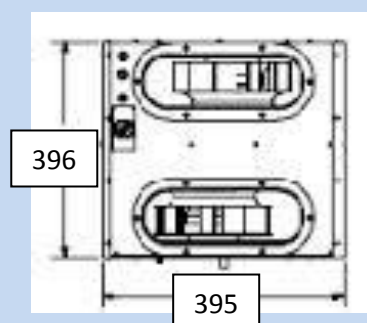


## Unit Dimensions

Side-on view



Front-on view



Help create a cleaner, drier healthier environment with a HEX390 unit. **KIWIVAC** will ensure quality installation and service and help with any further questions you may have

### Cleaning the filters

The filters within a HEX390 are replaceable EU3 filters which can be removed by an owner and washed. They require an annual clean notified by the digital control. If required a serviceman can visit your home to perform this procedure.

Hex warranty
<ul style="list-style-type: none"><li>• 24 months manufacturing warranty from date of first retail purchase.</li></ul>
<ul style="list-style-type: none"><li>• This HEX390 product will be free from any defects in manufacturing, materials and workmanship for periods set above ("Warranty Period")</li></ul>
<ul style="list-style-type: none"><li>• Any faulty goods will be repaired or replaced via KIWIVAC</li></ul>
<ul style="list-style-type: none"><li>• 5 years warranty on all flexible insulated ducting</li></ul>

