

# ***HEX390 Heat Exchanger***

## **HEX Kitset and Options**



***Cleaner, Warmer, Drier, Healthier Homes***

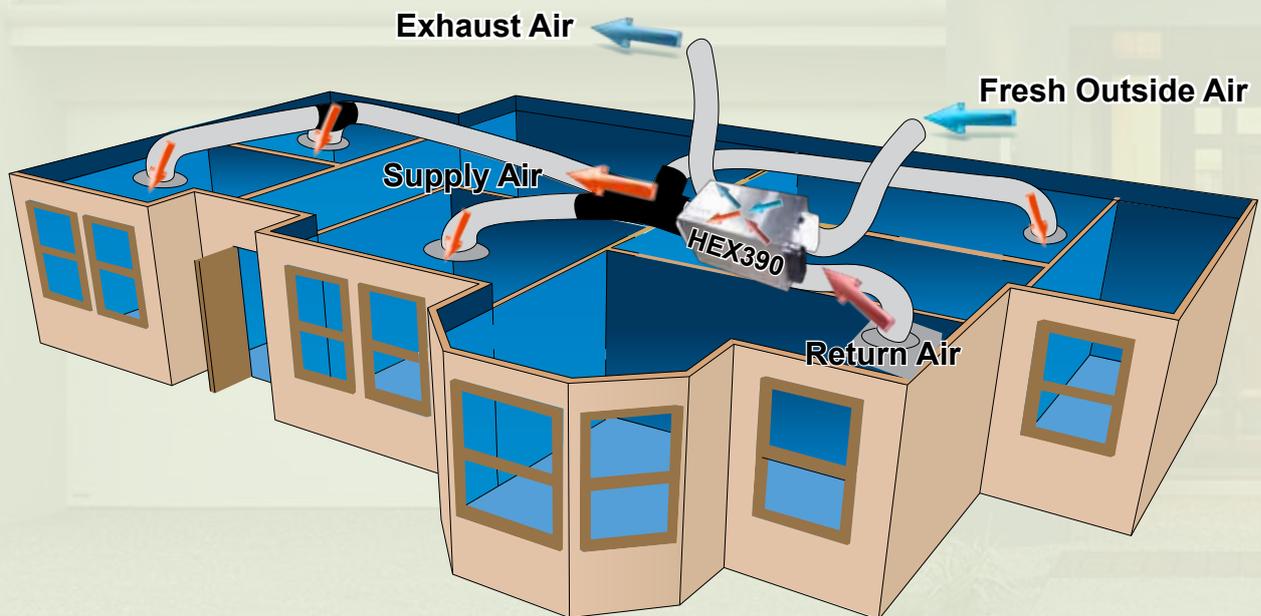
Due to a policy of continuous development, prices and specifications are subject to change without notice.

***HEX390***

***Made in New Zealand for New Zealand conditions***

Inlet Air to the unit can be fresh air from outside, or filtered warmed air from the attic space. Optional diverting branch available.

# Balanced Pressure Ventilation



## Key Benefits

- Better Climate Control
- Reduced heating load
- Reduced air-conditioning load
- Fresh air
- Energy efficiency
- Reduces condensation

One, two, three and four room ducted kits for Heat Exchanger also available.

The **HEX390** Heat Exchanger is a highly effective unit, suitable for domestic installations.

The HEX HRV unit provides fresh air and improved climate control, while also saving energy by reducing heating (and cooling) requirements.



*HEX390* recycles heat and energy, therefore saving heating and cooling costs.

*HEX390* balanced pressure ventilation is perfect for new houses with well sealed windows and doors, as well as for older houses where heat recovery can be even more important.

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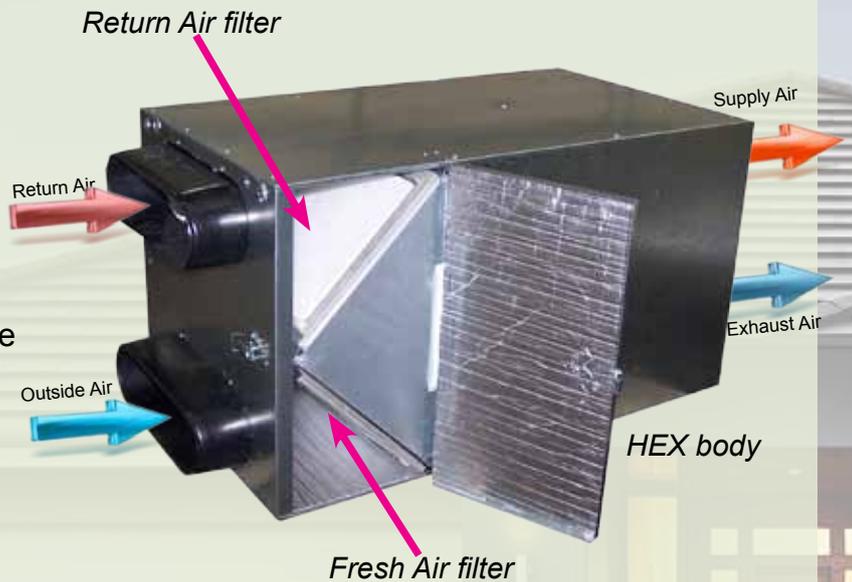
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# Operating Instructions

## Cleaning the unit's filters

The internal filters are designed as secondary filters (there should be extended surface filters cleaning the air before reaching the unit). However, when unit filters are heavily soiled, replace or wash them.

To wash: use vacuum cleaner to remove excess dust, then wash them in warm detergent treated water, keeping filters flat.



HEX Attic box

## Attic Box

The Attic box goes in the attic with the main HEX box. The hall controller - digital or manual 3 speed - will be shipped inside the attic box.

## 3 speed manual switch

The unit is designed to recover heat from exhaust air, which in turn warms (or cools) the fresh outside air.

The 3 speed switch is mounted in a convenient place, eg in the hall.



3 speed controller

This unit has High / Medium / Low speeds which the homeowner can use to regulate the fresh air amount to suit the load.

Typically:

- High (3) where a number of people are living in the house and/or outside temperatures are moderate
- Medium (2) less people in the house and/or colder outside temperatures
- Low (1) mainly to keep air fresh in the home during extremely cold conditions.

# Operating Instructions

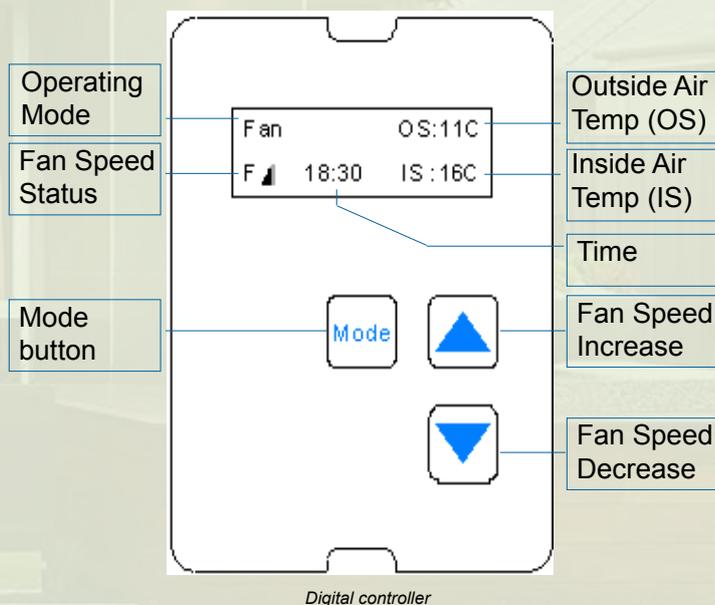
## Digital Controller

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 and home is warm.

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  buttons together until “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.



# Options

<b>Code</b>		
<b>HEX390man</b>	<b>Heat Exchanger with 3 speed controller</b>	
<b>HEX390digi</b>	<b>Heat Exchanger with digital controller</b>	

<b>Options</b>		
<b>HexCD</b>	Digital controller	
	Internal thermostat	
DMVK	Winter diverting branch inlet from attic	
FBP200	Plastic in-line filter box 150mm (recommended for Return and Fresh intakes)	
FBPF	EU2 filter for FBP200	

Ducted Kitsets below can be modified if required to suit the house

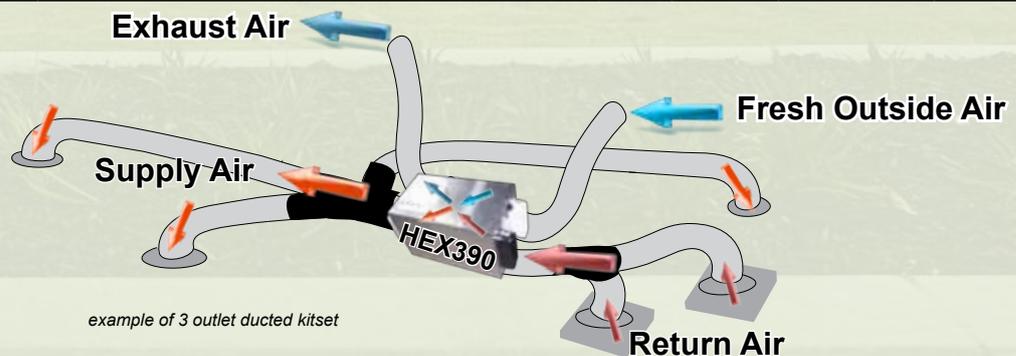
<b>HEX01RK - Ducted Kitset 1 outlet</b>			<b>Qty</b>		
<i>Supply</i>	PYCD200	237100 Round Ceiling Diffuser 200dia	1		
<i>Fresh</i>	PYEC200	244030 Egg Crate Grille 200sq Loose core	1		
<i>Fresh</i>	PLAD20/20	Plastic Adaptor 200/200	1		
<i>Exhaust</i>	PYEC200	244030 Egg Crate Grille 200sq Loose core	1		
<i>Exhaust</i>	PLAD20/20	Plastic Adaptor 200/200	1		
<i>Return</i>	PYEC200	244030 Egg Crate Grille 200sq Loose core	1		
<i>Return</i>	PLAD20/20	Plastic Adaptor 200/200	1		
<i>Duct</i>	PY6200	110004 Insulated Flex 200 x 6m	4		
		Total			
	HEX01RK	<b>1 outlet Kitset price</b>			

<b>HEX02RK - Ducted Kitset 2 rooms/outlets</b>			<b>Qty</b>		
<i>Supply</i>	PYCD200	237100 Round Ceiling Diffuser 200dia	2		
<i>Supply</i>	BRi202020	Y Branch insul 200/200/200	1		
<i>Fresh</i>	PYEC200	244030 Egg Crate Grille 200sq Loose core	1		
<i>Fresh</i>	PLAD20/20	Plastic Adaptor 200/200	1		
<i>Exhaust</i>	PYEC200	244030 Egg Crate Grille 200sq Loose core	1		
<i>Exhaust</i>	PLAD20/20	Plastic Adaptor 200/200	1		
<i>Return</i>	PYEC200	244030 Egg Crate Grille 200sq Loose core	1		
<i>Return</i>	PLAD20/20	Plastic Adaptor 200/200	1		
<i>Duct</i>	PY6200	110004 Insulated Flex 200 x 6m	5		
		Total			
	HEX02RK	<b>2 outlet Kitset price</b>			

# Options continued

<b>HEX03RK - Ducted Kitset 3 room</b> (includes 2 return air intakes)			Qty			
Supply	PYCD150	PYCD150 Round Ceiling Diffuser 150dia	3			
Supply	BRI20151515	4way Branch insul 200/150/150/150	1			
Fresh	PYEC200	244030 Egg Crate Grille 200sq Loose core	1			
Fresh	PLAD20/20	Plastic Adaptor 200/200	1			
Exhaust	PYEC200	244030 Egg Crate Grille 200sq Loose core	1			
Exhaust	PLAD20/20	Plastic Adaptor 200/200	1			
Return	PYEC200	244030 Egg Crate Grille 200sq Loose core	2			
Return	PLAD20/20	Plastic Adaptor 200/200	2			
Return	BRI202020	Y Branch insul 200/200/200	1			
Duct	PY150	110001 Insulated Flex 150 x 3m	3			
Duct	PY6200	110004 Insulated Flex 200 x 6m	5			
			Total			
HEX03RK			<b>3 outlet Kitset Price</b>			

<b>HEX04RK - Ducted Kitset 4 room</b> (includes 2 return air intakes)			Qty			
Supply	PYCD150	PYCD150 Round Ceiling Diffuser 150dia	4			
Supply	BRI202015	Y Branch insul 200/200/150	1			
Supply	BRI20151515	4way Branch insul 200/150/150/150	1			
Fresh	PYEC200	244030 Egg Crate Grille 200sq Loose core	1			
Fresh	PLAD20/20	Plastic Adaptor 200/200	1			
Exhaust	PYEC200	244030 Egg Crate Grille 200sq Loose core	1			
Exhaust	PLAD20/20	Plastic Adaptor 200/200	1			
Return	PYEC200	244030 Egg Crate Grille 200sq Loose core	2			
Return	PLAD20/20	Plastic Adaptor 200/200	2			
Return	BRI202020	Y Branch insul 200/200/200	1			
Duct	PY6150	110002 Insulated Flex 150 x 6m	4			
Duct	PY6200	110004 Insulated Flex 200 x 6m	6			
			Total			
HEX04RK			<b>4 outlet Kitset price</b>			



# HEX Specifications

Technical Specifications		
<b>HEX 390 Unit</b>		
Air Flow (max)		390 m <sup>3</sup> /hr
Sensible Effectiveness (max)	(approx)	80%
Electrical Consumption		110W/110W(max)
Weight		20.75 kg
Filter	Replaceable	EU3
Insulation	Thermal	5 mm
Fan Type		Backward curved centrifugal
Speed Control		low / medium / high
Fans Speeds	rpm	1590 / 2160 / 2510
Duct connection equivalent diameter		200 mm
Heat Exchanger Type		Cross Flow
Heat Exchanger Material		Robust Polymer Core
<b>Heat Recovery Core</b>		
Dimensions	mm	260 x 260 x 385
Weight		3.7 kg
Material		Polymer
Type		Cross Flow

Dimensions (mm)

