

# Xchange by Unovent®

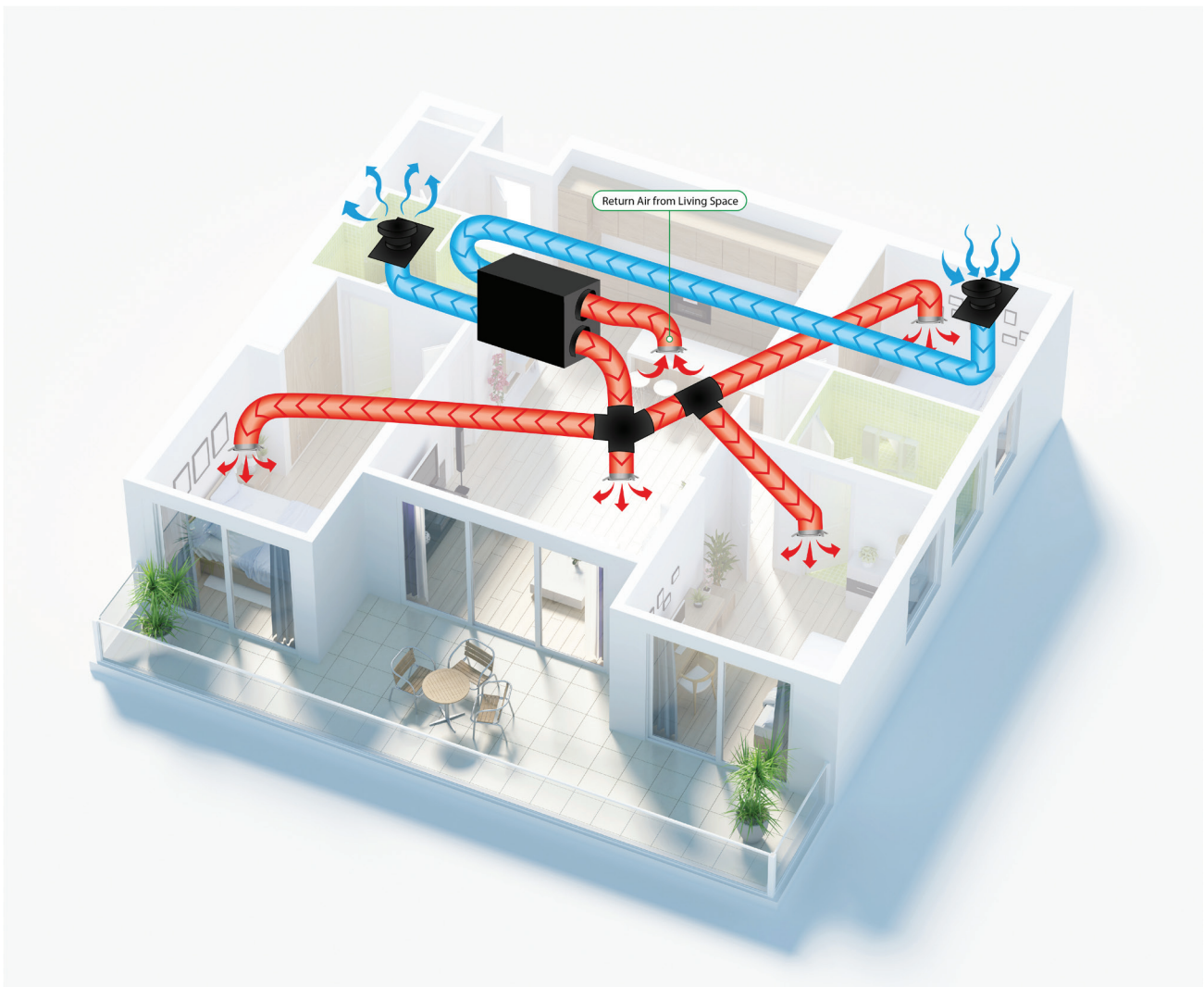
Ventilate with clean, fresh air without compromising on heating or cooling

Xchange is an automated balanced pressure ventilation system, with the advantage of inbuilt energy recovery. Two sizes available to suit residential houses:

- Xchange 150 - houses up to 230m<sup>2</sup>
- Xchange 170 - houses up to 300m<sup>2</sup>

## Product suitability:

Any residential dwelling with a roof cavity to control condensation, improve air flow, and reduce mould and mildew.



## Key Features

- Humidity sensor controller
- Dual high performance two speed centrifugal fans
- Durable polypropylene energy exchange unit
- Lifetime warranty on Energy exchange core
- Recovers up to 80% of energy from outgoing air to incoming air
- Large push buttons for easy use
- Custom set maintenance reminders
- Washable G4 or carbon filters

## Applications

Xchange by Unovent® can be installed in any residential dwelling and free standing aged care units. As Xchange has an energy recovery system it is best suited for locations that use year round heating/air conditioning. Dwellings must have access to the roof cavity with a minimum 1m, Xchange is suitable for two storey homes and downcuts can be used for retrofits.

## Installation

Undertaken by Unovent's Certified installer network.

## Limitations of use

- Not suitable for wet areas where Xtract by Unovent systems should be installed.
- Xchange is not recommended for multi storey dwellings or dwellings over 300mm<sup>2</sup>
- Access hatch must be at least 550mm x 500mm for the unit to fit through.
- Regular access to unit is required for filter maintenance.

## Electrical

- Standard 230-240V 50/60 Hz three pin powerpoint is required and power outlet installation must be carried out by a registered electrician. Depending on the age of the property if there is no RCD on the switchboard, the unit may be hardwired.
- Low voltage control cable from the unit in the roof space to be connected to the wall Keypad (cable is supplied).

## Maintenance

- Filters should be inspected when service is indicated on the keypad. Filters should be washed with a minimum of detergent and dried fully before refitted.
- Filters should be replaced after 5 years of use.

## Warranty

Lifetime warranty on the Energy recovery core, 5 year warranty on all other parts and installation.

## Components

The Xchange system has a number of key components for the standard unit

COMPONENT	DESCRIPTION	
Xchange Cabinet	<ul style="list-style-type: none"> <li>Cabinet is constructed of 0.032 painted aluminium with a white enamel finish</li> <li>Cabinet is fully insulated with 25mm polyurethane.</li> <li>Polypropylene cross-flow heat exchange core</li> <li>230/240V 50/60 Hz</li> <li>Mains power plug</li> <li>128W</li> <li>Xchange 150 – 480mmH x 760mmL x 335mmW; 13.6kg</li> <li>Xchange 170 – 500mmH x 860mmL x 410mmD; 19kg</li> </ul>	
Keypad	<p>Keypad is housed within a traditional switch-plate</p> <ul style="list-style-type: none"> <li>Fits standard 51mm x 76mm wall box or may be mounted using typical plaster anchors where a wall box is not available</li> <li>25mm back-lit (blue) screen</li> <li>Large size push buttons</li> <li>On-board 24/40/60 minute speed timer</li> <li>Optional humidity monitoring</li> <li>Custom set maintenance reminders (1-12 months)</li> </ul>	
Filters	<ul style="list-style-type: none"> <li>Comes with an industry recognised standard G4 polymer filter to remove coarse dust particles including pollen, mould and spores from your home</li> <li>Optional Carbon filter</li> </ul>	
Ducting	<p>Three types of ducting used:</p> <ul style="list-style-type: none"> <li>Insulated flexible ducting is used for the supply of air from the unit to the diffusers</li> <li>Plain flexible ducting is used for the exhaust of air to the outside</li> <li>Acoustic flexible ducting is used for the fresh air intake from outside</li> </ul>	
Diffuser	<p>Ceiling diffuser</p> <ul style="list-style-type: none"> <li>Ø150mm diffuser</li> <li>UV stabilised engineered polymer</li> <li>Textured white finish</li> </ul>	

## Performance

Xchange 150 Air flow:

Supply Air 212m<sup>3</sup>/h  
Exhaust Air 256m<sup>3</sup>/h

Xchange 170 Air flow:

Supply Air 302m<sup>3</sup>/h  
Exhaust Air 306m<sup>3</sup>/h

Xchange 150 Ventilation Performance			
EXT. Static Pressure	Net supply Air flow	Gross air flow	
		Supply	Exhaust
in Pa	m <sup>3</sup> /h	m <sup>3</sup> /h	m <sup>3</sup> /h
25	207	207	255
50	178	180	217
75	158	160	195
100	144	146	177
125	132	134	150
150	112	109	134
175	92	92	124

Xchange 170 Ventilation Performance			
EXT. Static Pressure	Net supply Air flow	Gross air flow	
		Supply	Exhaust
in Pa	m <sup>3</sup> /h	m <sup>3</sup> /h	m <sup>3</sup> /h
25	267	272	279
50	255	257	260
75	231	236	240
100	214	229	219
125	197	200	204
150	178	182	189
175	160	160	170

Xchange 150 Energy Performance			
Supply Temp.	Net Air flow	Sensible Recovery	Apparent Sensible
°c	m <sup>3</sup> /h	Efficiency	Effectiveness
0	109	71	80
0	163	64	73
0	197	63	70
-25	102	64	82

Xchange 170 Energy Performance			
Supply Temp.	Net Air flow	Sensible Recovery	Apparent Sensible
°c	m <sup>3</sup> /h	Efficiency	Effectiveness
0	105	65	73
0	146	63	70
0	195	61	68
-25	107	59	78

## Compliance

Xchange complies with New Zealand Building Code as follows:

NZBC E2/AS1 External Moisture  
 NZBC G4/AS1 Ventilation  
 NZBC G9/VM1 Electricity  
 ASNZS 60335.2.80 Household and similar electrical appliances - Safety  
 Particular requirements for fans

CAD is available at [www.hometech.co.nz/technical-resources](http://www.hometech.co.nz/technical-resources)