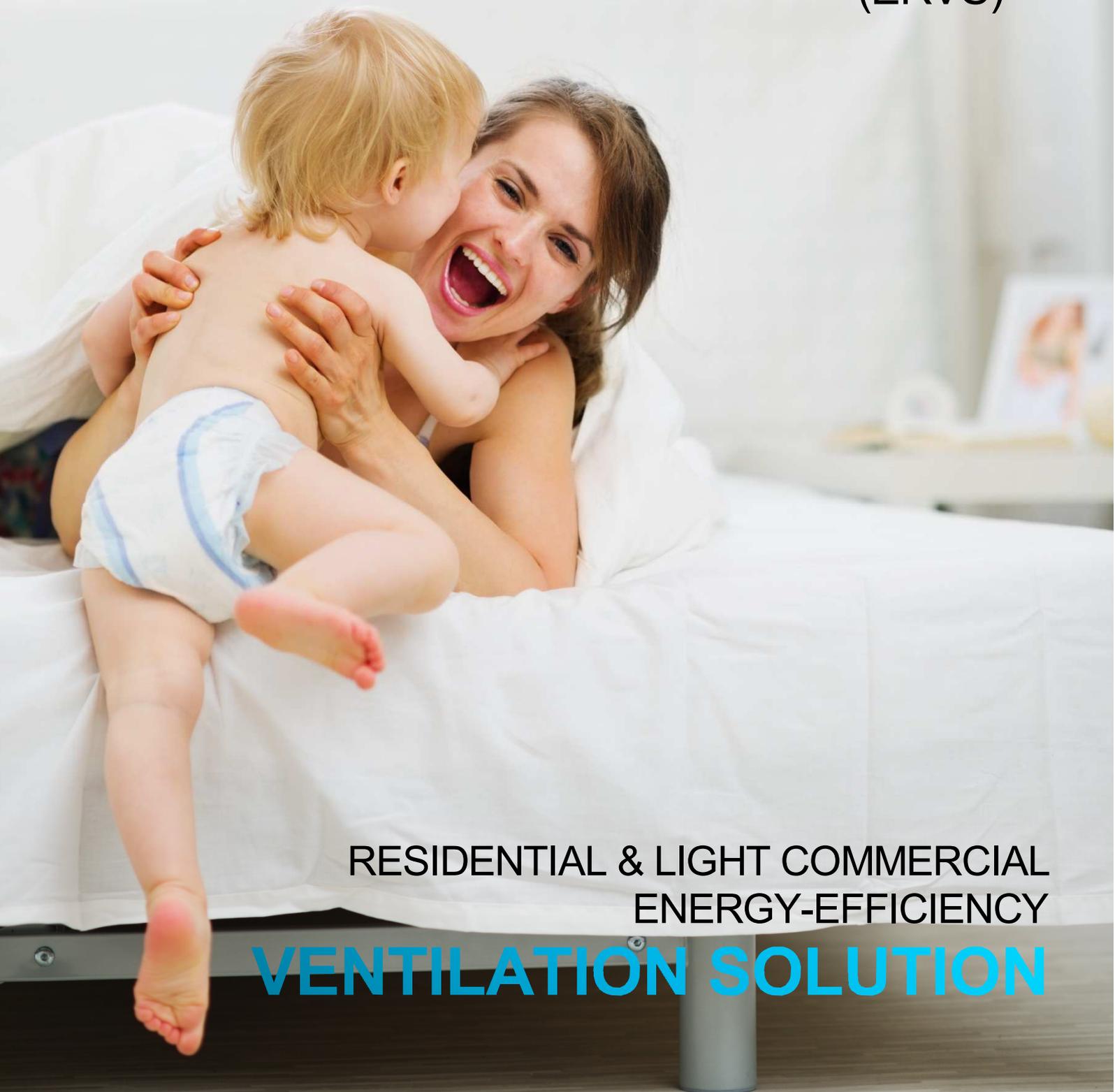




ENERGY – RECOVERY  
VENTILATION SYSTEM  
(ERVS)



RESIDENTIAL & LIGHT COMMERCIAL  
ENERGY-EFFICIENCY

**VENTILATION SOLUTION**

## Power Consumption and Indoor Air Quality



New Zealanders are building more and more air tight houses to reduce the energy loss and installing heat pumps to make a warm home in winter.



In spite of installing heat pumps, condensation can still remain along with stale indoor air around you. Hence, appropriate amount of fresh air is required inside the house. Is opening the window an option? You can then watch your money fly out

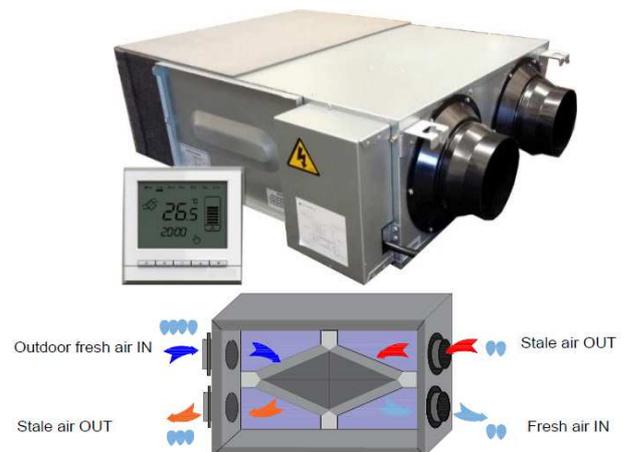


Having an **O2VENT ERV**, allows you to enjoy warmer, dryer, healthie indoor environment without worrying about dramatically increasing power bill.

## How It Works

ERV has two built-in fans, one for bringing fresh outdoor air inside, and the other for extracting indoor stale air outside.

Fresh outdoor air is filtered before going through special design heat exchanger where incoming cold fresh air is heated by the outgoing indoor warm air and extra moisture is also thrown out.



In winter, warmer outgoing air flow will transfer heat energy to the incoming fresh air and take the moisture out to keep the home warm and dry.



In summer, cooler outgoing air flow will cool the incoming hot fresh air and keep the room cool and dry.



In spring and autumn, you can choose to run one fan as a positive pressure ventilation system for fresh air supply

## Key Features



### Healthy – Improve indoor air environment

By introducing filtered fresh air, **ERV** can prevent bacteria, dust, pollen, mold spores and other toxic particles from entering the home. And, while extracting stale indoor air out, the indoor moisture, mold and volatile organic compounds are thrown out and you can have healthier environment.

### Comfortable – Reduce condensation

Keeping a reasonable indoor air changes, can reduce the condensation and the chance of mold generation without too much air temperature dropping off.



### Energy Recovery

With unique *Energy Recovery Plate Heat Exchanger*, incoming cold fresh air is preheated by collecting up to 80% of the heat energy from outgoing warm air. Also, the small size moisture molecules in the outdoor air will go through the heat-exchanger and into the outgoing air, thus bringing cleaner, warmer and drier fresh air into your home.

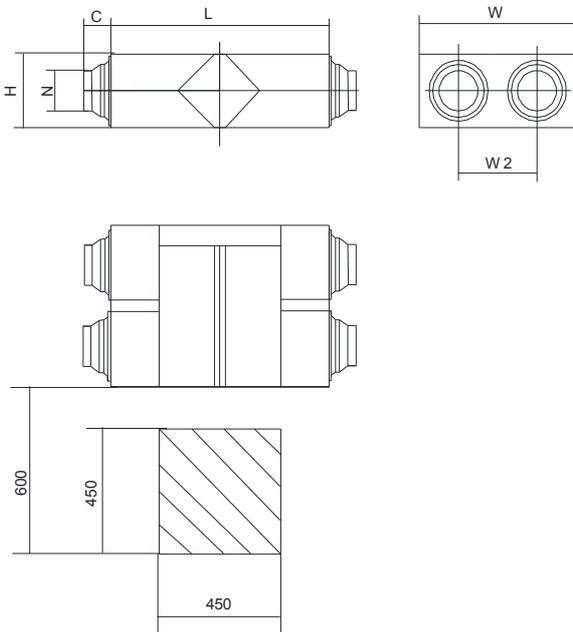
### Quiet

**ERV** can be installed in the roof or basement space, quietly running from 25dBA level.



### Easy Operation and Maintenance

- LED display
- 3-speed fan control
- Bypass/heat recovery selection
- Auto and Manual mode
- Filter replacement alarm
- Easy filter replacement



### Dimensions

| Model       | L   | W   | W2  | H   | C   | N    |
|-------------|-----|-----|-----|-----|-----|------|
| XHBQ-D1.5TP | 808 | 580 | 290 | 264 | 100 | Ø144 |
| XHBQ-D2.5TP | 882 | 599 | 315 | 270 | 100 | Ø144 |
| XHBQ-D3.5TP | 882 | 804 | 480 | 270 | 100 | Ø144 |

# Specification

| Model       | Airflow(m3/h) |     |     | External pressure(Pa) |    |    | Temp. exchanger efficiency (%) |    |    | Noise dB(A) |      |    | Volt. | Current | Input power | N.W. |
|-------------|---------------|-----|-----|-----------------------|----|----|--------------------------------|----|----|-------------|------|----|-------|---------|-------------|------|
|             | L             | M   | H   | L                     | M  | H  | L                              | M  | H  | L           | M    | H  | V     | A       | W           | kg   |
| XHBQD1.5TP  | 115           | 150 | 150 | 34                    | 58 | 75 | 77                             | 75 | 75 | 25          | 30   | 31 | 220   | 0.5     | 105         | 25   |
| XHBQ-D2.5TP | 165           | 250 | 250 | 35                    | 70 | 85 | 77                             | 75 | 75 | 26          | 34   | 34 | 220   | 0.56    | 117         | 29   |
| XHBQ-D3.5TP | 270           | 350 | 350 | 36                    | 75 | 90 | 77                             | 75 | 75 | 29          | 36.5 | 38 | 220   | 0.72    | 150         | 37   |

## Installation

ERV system can be installed on its own or in combination with a Heat Pump Ducted System.

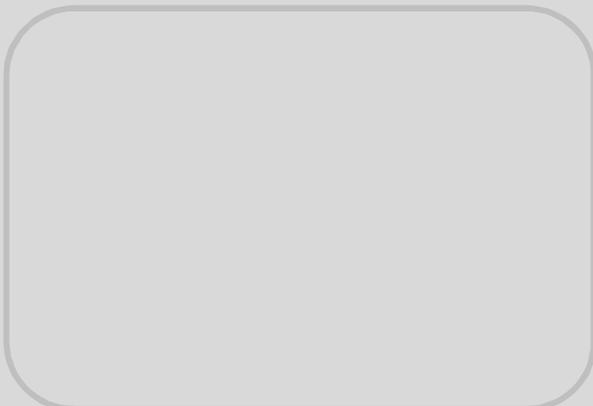
## Maintenance

O2vent ERV unit is supplied with 2 standard washable G3 air filters.



For Installation and Sales:

Distributed by:



**Pacific Heating & Cooling Tech. Ltd**

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0800-O2VENT

**3 YEARS WARRANTY**