

# *Indoor Pool Ventilation & Heat Recovery Systems*

Commercial

Residential

- **HIGHLY EFFECTIVE**
- **ENERGY EFFICIENT**
- **RELIABLE & ROBUST**
- **ENVIRONMENTALLY FRIENDLY**

 **HOT WATER HEAT PUMPS LTD**

Advancing Water Heat Pump Technology

**SINCE 1980**

[www.waterheating.co.nz](http://www.waterheating.co.nz)



# efficient

**Vent-Air Indoor Pool Ventilation and Heat Recovery Systems are the ideal solution for indoor swimming pools, keeping condensation and moisture under control at all times. Vent-Air Systems are designed and developed by to create a pleasant environment for all pool users.**



Engineered and built in New Zealand, Hot Water Heat Pumps Ltd has designed the Vent-Air range to suit all indoor pools regardless of their size.

## HOW DOES THE VENT-AIR SYSTEM WORK?

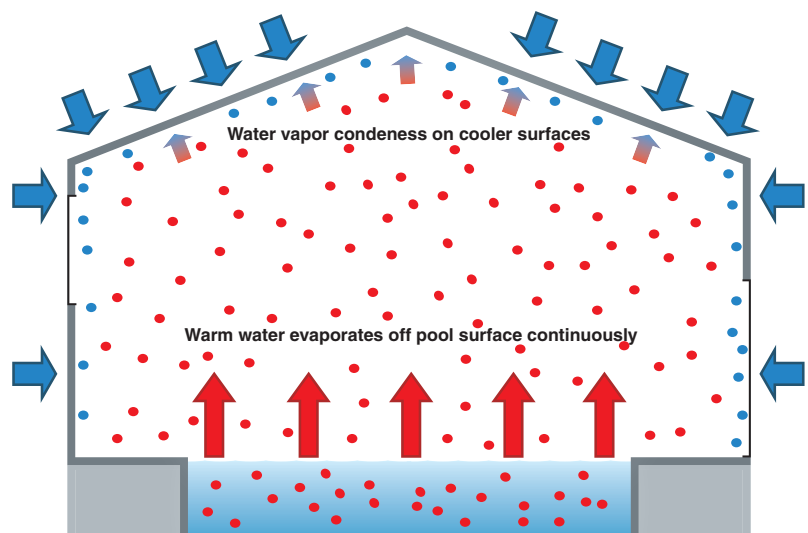
Indoor swimming pool enclosures must be ventilated, either by natural means in the case of smaller residential pools where a cover is used and the climate is mild, or by mechanical means in the case of large residential and commercial pools. Ventilation is necessary to control temperature, humidity and overall indoor moisture. Vent-Air Indoor Pool Ventilation and Heat Systems can be used across multiple applications including pool heating, underfloor and air heating for ventilation systems.

Each Vent-Air System features fan coil air handling units that supply fresh heated air into the enclosure diluting the humid and stagnant indoor air with drier outdoor air. An equivalent amount of exhausted stale indoor air is expelled at the same time by the return fan coil air handling units.

## CONDENSATION AND EFFECTS OF POOR INDOOR AIR QUALITY

The continuous day-in, day-out process of losing heat from the water surface within the pool enclosure puts a large quantity of moisture into the air. The heat loss accelerates according to the type of users activities. If the humidity is allowed to accumulate in the pool enclosure, it can lead to:

- The risk of an unhealthy and uncomfortable environment by accelerating the fungus, mold and mildew growth
- Adverse effects on people using this facility, especially youngsters and elders
- Minimising recreational activities
- The loss of effectiveness of some insulation materials
- Severe structural damage for the building



***Experience the best in heat pump water heater technology.***



# functional

Vent-Air Indoor Pool Ventilation and Heat Recovery Systems are ideal for use in new and existing indoor residential, commercial and public swimming pools, with surface areas starting from 30m<sup>2</sup>.

## NEW OR EXISTING APPLICATIONS

Vent-Air Indoor Pool Ventilation Systems are designed to minimise condensation, to control the humidity level and to create a pleasant environment for pool users by continuously replacing exhausted stale and humid indoor air with fresh outdoor air.

## A VENT-AIR SYSTEM IS DESIGNED TO DELIVER THE FOLLOWING BENEFITS:

- Maintain a consistent air temperature
- Minimise condensation
- Control humidity levels
- Create a pleasant environment for pool users
- Reduce energy consumption when compared to other available products in the market

## SUPERIOR VENT-AIR PERFORMANCE

With a Vent-Air solution, the optimum number of air changes per hour is achieved, supplying the ideal amount of outdoor air to distribute throughout the indoor pool areas in order to:

- Stop concentration of contaminants in certain areas
- Remove odours
- Control and keep air temperature and humidity consistent

## DESIGNED AND DEVELOPED IN NEW ZEALAND

Vent-Air indoor pool ventilation and heat recovery systems are built tough to handle New Zealand's conditions. With innovative 'De-Ice' control, Vent-air offers optimal flow ambient operation for the ultimate reliability.

## CUSTOM BUILT, FIT FOR PURPOSE

All Vent-Air indoor pool ventilation systems are purpose built to suit your requirements. Talk to us today to discuss your specific needs.



## BACK UP AND SERVICE

When you install a Vent-Air System, you can be assured of unprecedented after-sales service. We provide free telephone and email support on all products, for the life of the product, even if you're outside of the warranty period. With periodic maintenance, your Vent-Air product from Hot Water Heat Pumps Ltd will provide you with long-lasting quality service.



## WARRANTY

All of our Vent-Air Systems carry a comprehensive two year parts and labour warranty, including the compressor, evaporator coil, heat exchanger and refrigeration systems. The titanium tube within the heat exchanger is covered against corrosion for 10 years.



## SAFETY FIRST

All of our heat pump water heaters are fitted with protection systems to prevent damage in the event of a malfunction. These include refrigeration safety switches; high and low pressure. In the case of our swimming pool and domestic heat pumps, our flow switches ensure the heat pump cannot operate without water flow. If a problem is identified, the unit automatically shuts down before damage can occur. Optional drain tray heaters are added for under floor heat pump water heaters for places like Wanaka. Electronic reverse cycle de-ice control is a standard feature on all Performance Plus heat pumps.



## PROUDLY KIWI OWNED

Hot Water Heat Pumps Ltd is a Kiwi-owned company with over thirty years' experience in the industry, and is recognised internationally for innovation, quality, and reliability. Engineered and built in New Zealand, DuoHeat heat pump water heaters have been designed to cater for your specific dual-purpose water heating requirements. Your local authorised dealer will be able to recommend the DuoHeat system which will best meet your needs.

## NATIONWIDE AUTHORISED DEALERS

Contact your local authorised distributor to find out more about the advantages of our DuoHeat products.

Visit the Hot Water Heat Pumps website to find an authorised dealer in your area.

Authorised Dealer:

### Hot Water Heat Pumps Ltd

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