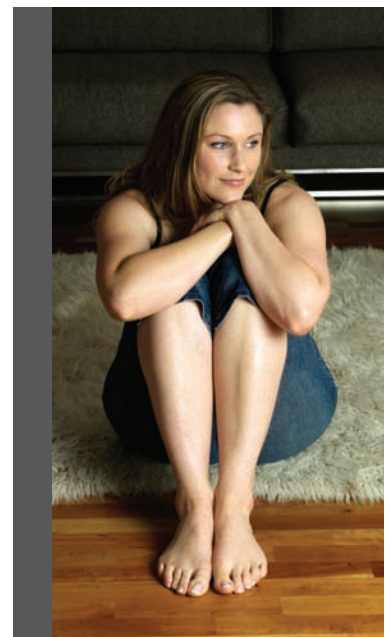
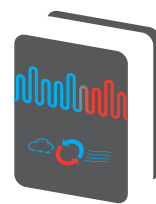




# Air to Water Heat Pumps



Reversible Heating and Cooling Air to Water Heat Pump



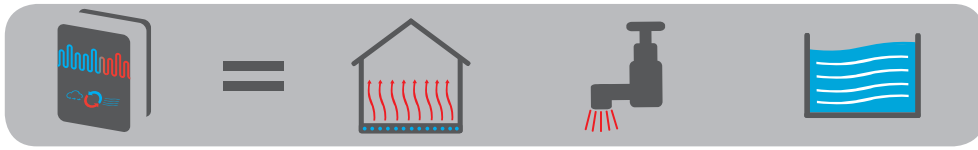
- Low running costs & low maintenance
- Use air to heat & cool your home, hot and cold in a single unit
- Specifically designed to heat in a cold environment (down to  $-15^{\circ}$ )
- Ideal for use with an underfloor central heating system
- High energy efficiency under any operating conditions



**Central Heating**  
NEW ZEALAND

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**SUMMER**  
ALL YEAR ROUND

# Air to Water Heat Pumps



## How does a DeLonghi Air to Water Heat Pump heat my house?

Air to water heat pumps take the heat from the outside air and heat up water which is transferred to the home heating system. This uses similar technology to a fridge where the heat is pumped from inside the fridge to make it cold, and dumped at the back of the fridge where it is warm. Except for heating the outside air is cooled and the heat taken inside the house. DeLonghi Air to Water Heat Pumps can be used for underfloor heating, radiators (high temperature models) swimming pool heating, cooling (with fan coil units) and for heating domestic hot water. Transferring heat in this way is very efficient and silent; to transfer the same amount of heat as you can pumping 1 litre of water you would have to pump 1700 litres of air.

## Manufactured and designed in Europe specifically for heating in cold conditions.

There are a range of specifications depending on climate and customers needs. DeLonghi air to water heat pumps continue to work at very low temperatures and have very low running costs.



Air to Water Heat Pump - BRAN

## Very efficient, low running costs

Fully floating technology allows these heat pumps to work down to -15C and still have a good Coefficient of Performance (COP), and therefore cheap running costs. High efficiencies are possible as they are specifically designed for heating in a cold climates, unlike many other air to water heat pumps that are optimised for cooling in a hot climate.

DeLonghi heat pumps are supplied with essential parts of the heating system; all units contain a circulating pump, pressure gauge, pressure relief valve and expansion tank. DeLonghi offer a wide



Heat your domestic hot water

range of heat pumps from 6 to 60kW heat output and many other features depending on system design and customers needs. High temperature models can be used to heat radiators.

## Models Available

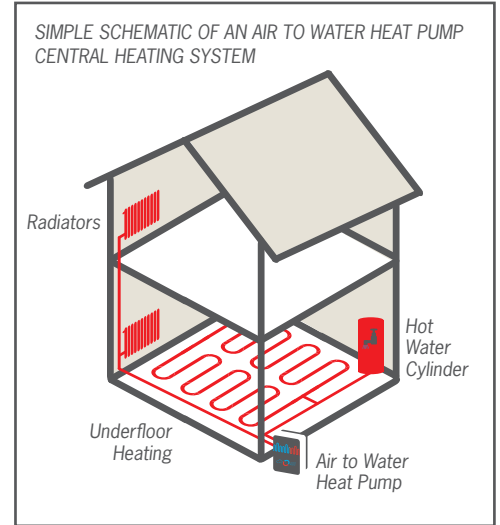
DeLonghi BRAN Heat Pumps are the standard specification and are ideal for underfloor heating throughout most of New Zealand except the very coldest regions.

CODE	kw OUTPUT *	ELEC SUPPLY
HPBRAN21	6.8	Single Phase
HPBRAN31	10.2	Single Phase
HPBRAN41	12.9	Single Phase
HPBRAN51	15.2	Three Phase
HPBRAN61	17.4	Three Phase

DeLonghi AWR Heat Pumps are a higher level specification for more complex systems (including radiators) and colder climates.

CODE	kw OUTPUT *	ELEC SUPPLY
HPAWR25	8.7	Single Phase
HPAWR31	10.2	Single Phase
HPAWR41	14	Single Phase
HPAWR51	16.4	Three Phase
HPAWR61	18.3	Three Phase

\* Larger models available on request.



## Performance at low temperatures

COPs at 35°C water outlet temperature \*

AIR	-7°C	-5°C	-3°C	0°C	7°C
BRAN	-	2.8 - 3.1	3 - 3.6	-	3.7 - 4.3
AWR	3 - 3.2	-	-	3.4 - 3.8	4.2 - 4.4

\* The exact Coefficient of Performance (COP)

## Extras

There are some optional features available according to the model:

- Fully floating technology for greater efficiency
- Domestic hot water heating & control from the heat pump
- Boost electric elements to meet peak loads
- Trace heat for faster defrosting
- Soft starters for single phase models

## Swimming pool heating

All models can be used for swimming pool heating using a swimming pool heat exchanger supplied by Central Heating New Zealand.

Systems supplied by:

The company named above is an approved supplier and/or installer of Central Heating New Zealand products.



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