



**INVERTER** HEAT PUMPS



Heating  
Cooling\*  
Hot Water

Eco Friendly Next Generation heating solutions for Kiwi Homes

There is no point in installing a highly efficient heating appliance if the heating system you attach to it can't deliver its full potential.

## Better by design

From your plans, our professional design team present overview design at the quoting stage For Under floor systems we include a cost for fully verified Loop Cad design suitable for Council consent and your installers to follow. We also provide valve train schematics and system wiring schematics for your installation



## Priced for your comfort and your peace of mind

Cost and quality and suitability are important considerations. There is nothing to gain from installing a super efficient heating system, if the initial capital outlay outweighs potential future operational energy savings.

Heating components are often sold at premium prices in New Zealand. A quick google price search to compare pricing in the UK and EU might surprise you!

We have a Unique Climate, NZ construction methods differ and our lifestyle all factors that need consideration when specifying products suitable for our homes

We are focused on bringing only high quality products and components from leading manufacturers along side our development of products specifically designed for New Zealand at the best possible price, Without compromising quality

\* **5YEAR**  
WARRANTY



\* When installed and maintained as prescribed in the manual, Excludes service parts and Circulating pumps see full warranty details

Highly efficient heating output to Under-floor heating, Radiators or a combination of both, and your hot water too!

## How it works

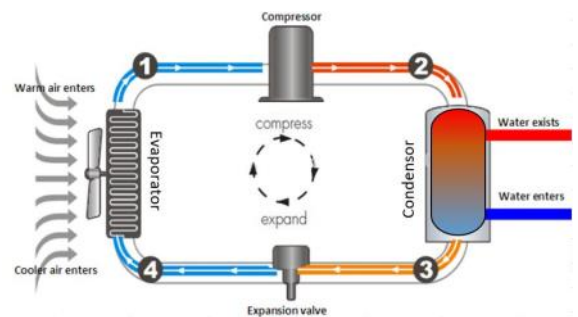
By taking low grade energy from ambient outdoor air and compressing it to heat up liquid refrigerant. This becomes a hot gas which is then used to transfer heat into the water used to heat your home and hot water supply.

### Achieving a high COP (Coefficient Of Performance)

This is the ratio of kw of power used opposed to the Kw of heat output produced.

### Outstanding performance at low temperature

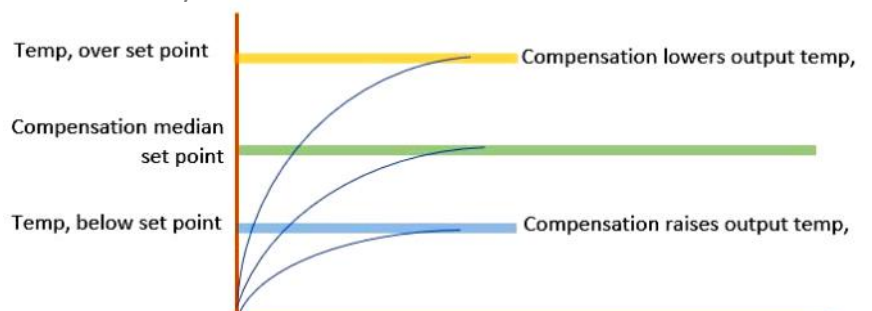
Eco+ Logic HPs can maintain output right down to -15 Degrees.



We use only high quality components like Mitsubishi twin scroll compressors which ensure we achieve High COP space heating performance along with Ultra Quiet Panasonic Vari-speed fans to bring you one of the best performing and quietest heat pumps available.

## Weather compensation

Eco+Logic includes advanced weather compensation. This system constantly monitors the outdoor temperature and adjusts the HP heating output to take full advantage of this to maintain maximum comfort and optimum efficiency.



## Domestic Hot water management

Many other combined heating and hot water heat pumps provide input to heat domestic hot water but importantly not all will effectively manage the additional input requirements from the cylinder element.

### Why do I need the cylinder element

The temperature differential between the coil temperature and the body of water in the cylinder dictates the time it will take to raise the body temperature. So a gas boiler putting 70° through the cylinder coil will very quickly raise temperature to 50 Degrees and even up to 60° Conversely the maximum output from a HP is around 55° in hot water mode and this will greatly extend the heating time. So there is a point at which the time taken negates the efficient energy draw.



In use we typically require the stored water to be up around 60° so with the above and this in mind the element is used to support the HP. The better systems such as Eco+Logic® manage the use of an element

A hot water cylinder can also harbor Legionella bacteria. To prevent this developing NZ legislation requires that the temperature in a hot water cylinder exceeds 60° at least once in every week. Eco+Logic® Heat pumps independently time and temperature control a Legionella cycle



Domestic hot water is an option, - if you require heating only, that's fine



## Some honesty

You may have seen manufacturers claiming HP energy cost savings of 70% or more!. A big sell message, such claims are at best based on of comparisons with the least effective options rather than “viable alternatives”. In our view this is deceptive.

### For domestic hot water production

Significant energy savings can be made with an Inverter HP. Only if it has a capability to manage the supplementary heat input required from the cylinder element managing all aspects of hot water production including Legionella protection.is key

### For space heating / Cooling\*

If you are running a well designed underfloor system, you will achieve the highest energy efficiency from your HP, because it will be operating at or close to the optimum COP.

If you are using a heat pump with a radiator system using conventional steel panel radiators then you should be aware that though still a great option you will not achieve the highest levels of efficiency, as the energy use will be increased as the COP will be lower. This is because to transmit heat steel panel radiators you require a notably higher input temperature, (Realistically around 50°) and the higher the HP output the lower the COP

Aluminum radiators have greater rate of heat transmission, & will improve energy efficiency, though if you really want the super efficiency of a high COP you should consider using Fan coil radiators. These fan assisted radiators operate efficiently at a similar low delivery temperatures to under-floor heating thus you can realise the savings of a high COP.

\*Though not as effective in cooling mode as a conventional Air conditioning unit for which cooling is it’s primary purpose, cooling Via fan coil radiators is an option from Air to water units. Cooling should be considered as cooling assist rather than a capacity to chill

## You can be sure ...

Air to water HPs are future of heating systems. The IQ Eco+Logic inverter is, one of the most efficient heating & hot water HPs available. Presenting Impressive configuration flexibility & providing high COP efficiency, with an ever important low carbon footprint. At an extremely sharp price.

# Technical

Ergonomic softer top edge design



AW 15 shown

Compressors from **Mitsubishi** : Vari-speed fans by **Panasonic**, **Grundfos** pumps and the renowned **Carrel** user interface.

“We bring together the best of the best”


Unique off the floor design with adjustable anti-vibe feet for levelling and improved air flow, eliminates the issue of damp debris collecting below the hp and rotting out the base.



## IQ AW 10V \*Output range 3.72 to 12.38Kw

		Min, load	Nominal Load	Max, load
**Heat output/power consumption/COP@ A7/W35	Kw	3.72/0.61/4.42	9.90/2.17/4.56	12.38/2.94/4.21
Heat output/power consumption/COP@ A2/W35	Kw	2.29/0.76/3.01	8.38/2.36/3.54	10.21/3.02/3.38
Operating temperature range		-15/+35		
Sound Pressure level @ 1m (dBA) @A7/35		51 At nominal load		
Pipe connection size/ min flow rate		Min, 32mm multilayer 1.72 m3/h		
Height / Width / depth / Weight		1213 x 1100 x 460 / 109Kg		
Voltage / Phase / Max current (A)		230V 50Hz / 1Phase / 19A / 		
Compressor / Refrigerant		A410A	<b>Mitsubishi Electric</b> Twin rotary scroll	

## IQ AW 15V \*Output range 3.70 to 16.5Kw

		Min, load	Nominal Load	Max, load
**Heat output/power consumption/COP@ A7/W35	Kw	3.70/0.79/4.68	15.90/3.90/4.08	16.5/4.13/4.00
Heat output/power consumption/COP@ A2/W35	Kw	3.50/1.14/3.07	12.60/3.45/3.56	13.10/3.88/3.38
Operating temperature range		-15/+35		
Sound Pressure level @ 1m (dBA) @A7/35		58 At Nominal load		
Pipe connection size/ min flow rate		Min, 32mm multilayer 2.74 m3/h		
Height / Width / depth / Weight		1213 x 1100 x 460 / 109Kg		
Voltage / Phase / Max current (A)		230V 50Hz / 1Phase / 31A / 		
Compressor / Refrigerant		A410A	<b>Mitsubishi Electric</b> Twin rotary scroll	

\*\*Performance testing to BS EN 14511 A=Air W= Outlet water temperature.

\* At A7-W35

Specifications correct at time of publishing, specifications may change

**IQ AW07V also available from 2022**

# www.heatiq.co.nz

We really do know Heating



## Welcome home

Gas condensing boilers, Diesel condensing boilers, Hot water cylinders, Buffer tanks, Pipe and fittings, Pipe insulation, Radiators, Towel rails, Manifolds, Pumps, Expansion vessels, Safety valves, Motor valves, Manual valves, Thermostats, Programmers, Wiring centers, Actuators & more.

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