inverECO

inverELITE

inverTITAN

# HEAT PUMP POOL HEATERS


madimack

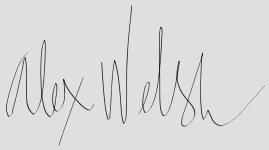
Powered by INVERMAC TECHNOLOGY

## Welcome to a new era of technology.

Madimack's range of products is designed to revolutionise the way you experience the world. With a steadfast focus on sustainability, innovation and enhanced user-features, we are proud to offer cutting-edge solutions that exceed your expectations.

At Madimack, we believe in a future where technology coexists harmoniously with the environment. That's why sustainability is at the core of everything we do. Our products are meticulously crafted to minimise their ecological footprint.

We are thrilled you chose Madimack to partner with. Together we will shape a more sustainable future.



**Alex Welsh**
Madimack Global CEO


Madimack's enhanced inverter technology, InverMAC, is engineered to support inverter motor operation. The inclusion of product specific proprietary technology allows for precise control of motor speed and energy usage across our range. InverMAC technology supports Madimack's overall position of unrivalled innovation, sustainability and performance. By incorporating inverter motor technology in creative and unique ways, Madimack is leading the way in the development of energy-efficient products.

# WHAT ARE HEAT PUMPS?

Heat pumps work by transferring the heat from the air outside a heating unit to the water stored inside a heating unit via a ‘heat exchange system’ and then pump that heated water into your pool. Heat pumps are the most energy efficient way to heat your pool, using approximately one third of the energy used by alternative pool heating systems.

Heat pump technology is quickly becoming a leading global industry, heavily weighted as a solution for ‘net-zero’ targets. Developments are burgeoning domestically and internationally, driven predominantly by governmental policy and consumer demand for “net-zero” initiatives.


In an era of rapid technological advancement, Madimack stands at the forefront, redefining product standards through its innovative proprietary technology. With a diverse range of applications, Madimack’s solutions are revolutionising industries and empowering consumers to thrive in an ever-evolving digital landscape. Through optimisation, automation, personalisation, and sustainability, Madimack’s technology delivers unparalleled efficiencies and transforms the way products are created, experienced, and consumed.

**advanced sound suppression technology**

Pioneered noise reduction technology, significantly reducing operational noise.

**quick connect technology**

Synchronised perfect pairing with Madimack Pool Heat Pumps.

**ADAPTIVE FLOW**
AI TECHNOLOGY

Intuitively adjusted flow rate to match capacity needs, providing significant energy savings and reduced wear and tear.

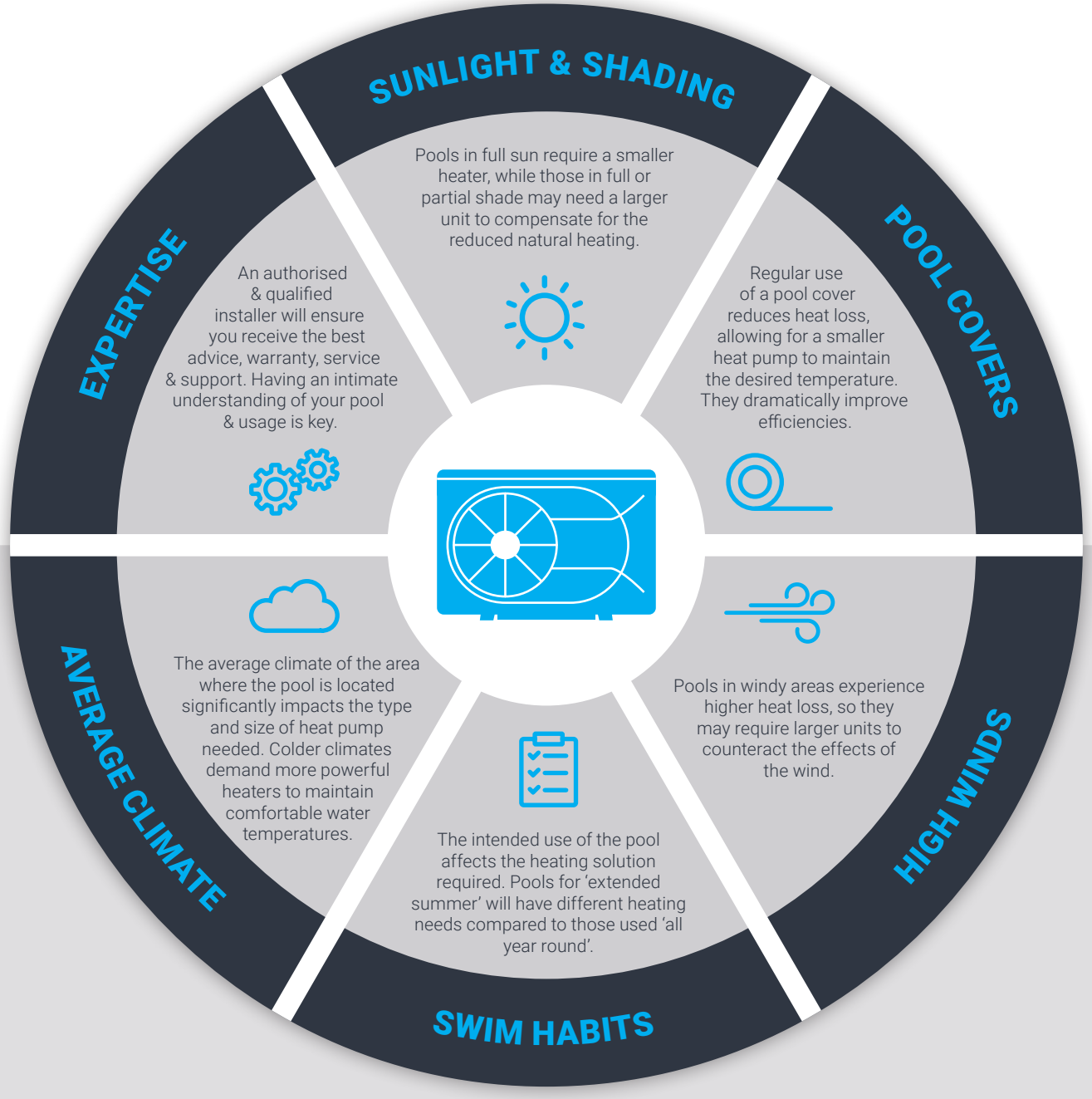
**CENTRI-FLOW™ PERFORMANCE**

Residential application of a centrifugal fan-optimised airflow, efficient cooling and heating and overall enhanced performance.

# inverHEAT | GUIDANCE SPHERE

Choosing the right heat pump can be a daunting process. Madimack's range of advanced pool heaters cater for the variations in backyard pools and environments around the globe. Engaging a specialist to support you through the process can optimise your heating solution further. This sphere guides you through the impact your heating choice.

Every aquatic set up is unique, so Madimack's engineers designed a bespoke Pool Heating Evaluation to take the mystery out of choosing the right pool heating solution. Visit the 'tools' section on our website to have an instant complimentary heating evaluation conducted on your pool, **madimack.com**




# OUR HEAT PUMP TECHNOLOGY

As with all industry, leaders are identified by their ability to provide market extensions, drive innovation and advance technology. In that vein, Madimack's commitment to research and development continues to position them as the Australian authority in Heat Pump technology. Our Heat Pumps are tech-advanced, light and easy to install, making them ideal for backyards and commercial premises.

Madimack Heat Pumps are supported by advanced technologies and market leading warranties. Manufactured from the highest quality components and tested above industry requirements, they include a titanium heat exchanger combined with a corrosion resistant evaporator coil and come with a Heating Performance Guarantee. Madimack Heat Pumps are TuV certified. TuV Rheinland is an international engineering testing body that is used to satisfy performance and quality metrics to international standards. Carried out on a voluntary basis in Australia, the program tests units in random conditions to confirm they perform as promoted.

# Innovation without compromise.

## WHAT SETS US APART

- 10 year warranty on compressor
- TüV Rheinland tested
- Highest efficiency
- WIFI included across the range
- Patented quietest unit
- Full inverter technology
- Touchscreen easy to use controller
- Night Mode
- Built in flow switch
- Dual defrost system
- Titanium heat exchanger
- Reverse fan for quieter operation
- Compatible with Solar PV
- R32 Eco friendly refrigerant
- Latest electronic expansion valve

## SERVICES

- Free to use online calculator
- Online warranty portal with 24-hour response
- In depth installation and user manuals
- Contractor installation, training and advice
- Commercial energy modelling

## INVERTER TECHNOLOGY

- Longer unit lifetime by up to five years
- Higher efficiency than on/off units
- Night mode and quite mode built in
- Soft start operation

inverELITE

# ADVANCED HEAT PUMP SERIES


The InverELITE V2 has been redesigned from the ground up to bring a revolutionised pool heating system to the market. In conjunction with the newest inverter technology the unit delivers better airflow, higher efficiency, quieter operation and performance. The unit exclusively delivers market leading installation requirements of 100mm from the back and 300mm from the side, providing space saving options for backyards. Engineered with durability in mind, the InverELITE V2 operates at optimal levels even in the most corrosive and erosive environments - Achieving a massive 31.8kW in a single phase. The InverELITE V2 sets the standard for all other heaters.

- Revolutionary design that redirects airflow to dramatically Wi-Fi with smart functions reduce spatial requirements
- Extremely energy efficient with a COP of up to 16.4
- Full inverter stepless compressor and fan
- Sleek design
- Six models up to 31.8kW in single phase
- Three phase 40kW model
- Patented slient design
- Marine grade anti-corrosion aluminium alloy casing
- Signature diamond touch screen and intuitive display
- WiFi with smart functions
- Marketing leading 10 year compressor warranty
- Newest most eco-friendly R32 Refrigerant
- Three coil evaporator for a more compact unit size
- TüV Rheinland certified
- Up to 40 degrees set point temperature
- Industry first centrifugal fan
- Advanced cold air performance
- Largest industry single phase unit

# TECHNICAL SPECIFICATIONS

| Model | ISA900 | ISA1100 |
|---|---|---|
| **PERFORMANCE CONDITION:** Air 80°F/ Water 80°F/ Humidity 80% | | |
| Heating capacity (BTU) | 90,000 | 110,000 |
| COP Range | 15.2 ~ 6.9 | 14.8 ~ 6.6 |
| **PERFORMANCE CONDITION:**Air 80°F/ Water 80°F/ Humidity 63% | | |
| Heating capacity (BTU) | 83,500 | 99,500 |
| COP Range | 13.7 ~ 6.3 | 13.4 ~ 6.0 |
| **PERFORMANCE CONDITION:** Air 50°F/ Water 80°F/ Humidity 63% | | |
| Heating capacity (BTU) | 54,500 | 67,500 |
| COP Range | 7.4 ~ 5.4 | 7.2 ~ 5.2 |
| **TECHNICAL SPECIFICATIONS** | | |
| Operating air temperature (°F) | 14 ~ 109 | |
| Heat exchanger | Twisted Titanium Heat Exchanger | |
| Power supply | 230V/1 Ph/60Hz | |
| Water connections (in) | 2 | |
| Rated input power at Air 80°F (BTU) | 2,400 ~ 13,000 | 3,000 ~ 16,500 |
| Rated input current at Air 80°F (A) | 3.00 ~ 16.61 | 3.82 ~ 21.22 |
| Maximum input current (A) | 25.0 | 33.0 |
| Sound level at 10ft (dBA) | 30.8 ~ 44.5 | 32.0 ~ 45.4 |
| Advised water flow (gal/min) | 21.9 ~ 30.6 | 31.2 ~ 40.2 |
| Net dimension, LxWxH (in) | 41.7 × 16.9 × 37.7 | 51.7×20.2×37.7 |
| Net Weight (lb) | 209 | 275.0 |

Remarks: The data above is for reference only. For more specific data, please refer to the nameplate of the unit.
*Recommended volume applied for a pool with isothermal cover.

# inverTITAN

# COOLING AND HEATING SERIES

25 YEAR LIMITED WARRANTY ON HEAT EXCHANGER

5 YEAR LIMITED WARRANTY ON COMPRESSOR

3 YEAR LIMITED WARRANTY ON ALL PARTS


Designed and engineered to meet the highest requirements for cooling and heating options, with full inverter compressor and top discharge fans for a streamlined efficient air flow; rest assured that you own the latest eco friendly technology. Enjoy new possibilities for pool heating and cooling with the space saving and slick design. Limited space is no longer a concern.

- Full inverter stepless compressor and fan
- Titanium heat exchanger with 25-year warranty
- Advanced cold air performance
- Built-inflow switch and safety devices
- Extremely energy efficient with COP up to 16
- Wi-Fi as standard
- Cooling and heating
- Top discharge air outlet
- Built-inflow switch and safety devices
- Newest most eco-friendly R32 Refrigerant
- Enables more options to fit in space
- Easy to use controller
- 3 models up to 26kW single phase
- Marine Grade anti-corrosion aluminium alloy casing


# TECHNICAL SPECIFICATIONS


| Model | ITV090 | ITV112 | ITV140 |
|---|---|---|---|
| **PERFORMANCE CONDITION:** Air 80°F/ Water 80°F/ Humidity 80% | | | |
| Heating capacity (BTU) | 90,000 | 112,000 | 140,000 |
| COP Range | 14.3 ~ 6.0 | 14.5 ~ 6.1 | 14.6 ~ 6.0 |
| **PERFORMANCE CONDITION:** Air 80°F/ Water 80°F/ Humidity 63% | | | |
| Heating capacity (BTU) | 84,000 | 105,000 | 131,000 |
| COP Range | 12.7 ~ 5.7 | 12.8 ~ 5.8 | 13.3 ~ 5.7 |
| **PERFORMANCE CONDITION:** Air 50°F/ Water 80°F/ Humidity 63% | | | |
| Heating capacity (BTU) | 54,000 | 67,200 | 85,000 |
| COP Range | 5.1 ~ 4.2 | 5.1 ~ 4.1 | 5.2 ~ 4.2 |
| **TECHNICAL SPECIFICATIONS** | | | |
| Operating air temperature (°F) | 14 ~ 109 | | |
| Power supply | 230V/1 Ph/60Hz | | |
| Water connections (in) | 2 | | |
| Rated input power at air 80°F (BTU) | 2000 ~ 15000 | 2400 ~ 18000 | 3000 ~ 23000 |
| Rated input current at Air 80°F (A) | 2.49 ~ 19.13 | 3.04 ~ 23.39 | 3.87 ~ 29.74 |
| Maximum input current (A) | 28 | 32.5 | 40.0 |
| Sound level at 10ft dB(A) | 34.3 ~ 46.5 | 35.2 ~ 48.3 | 38.8 ~ 51.1 |
| Advised water flow (gal/min) | 33.0 ~ 41.0 | 35.7 ~ 43.6 | 35.7 ~ 69.4 |
| Net dimension, LxWxH (in) | 36.8x27.4x38.9 | 36.8x 27.4x38.9 | 40.7x32.3x41.5 |
| Net Weight (lbs) | 288 | 297 | 347.6 |

* The data above is only for reference. For specific data, please refer to the nameplate on the unit.

inverECO

# EFFICIENT HEAT PUMP SERIES


Built with efficiency and simplicity in mind, the quiet, long lasting and easy to use InverECO is perfect for energy conscious minds. Encased in 'state of the art' anti-corrosion ABS casing, the InverECO will keep your pool warm season after season. Madimack units include WiFi as a standard function, providing the convenience of being able to change your pool's temperature and timers from wherever your day takes you. Additional benefits include 'low energy' and 'night time' modes, enabling heating efficiency to increase by up to 20%. Madimack's InverECO pool heating system provides everything your family needs for an extended season of pool-time fun.

- Energy efficient with COP up to 11
- Full inverter compressor and inverter fan
- Five models up to 24 kW in single phase
- Quieter operation than on/off technology
- Anti-corrosion ABS casing
- Easy to use controller
- Slim design
- Wi-Fi as standard
- Titanium heat exchanger with 25-year warranty
- Front discharge air outlet
- Reverse cycle defrost
- Built-in flow switch and safety devices
- Latest most eco-friendly R32 Refrigerant
- TüV Rheinland certified
- Up to 40 degrees set point temperature

# TECHNICAL SPECIFICATIONS


| Model | IEA320 | IEA400 | IEA500 | IEA660 |
|---|---|---|---|---|
| **PERFORMANCE CONDITION:** Air 80°F/ Water 80°F/ Humidity 80% | | | | |
| Heating capacity (BTU) | 32,000 | 40,000 | 50,000 | 66,000 |
| COP Range | 10.0 ~ 6.7 | 10.7 ~ 6.0 | 10.2 ~ 6.2 | 11.6 ~ 6.2 |
| **PERFORMANCE CONDITION:**Air 80°F/ Water 80°F/ Humidity 63% | | | | |
| Heating capacity (BTU) | 31,000 | 37,500 | 48,000 | 61,000 |
| COP Range | 8.7 ~ 6.3 | 9.9 ~ 5.6 | 9.2 ~ 6.0 | 11.1 ~ 5.8 |
| **PERFORMANCE CONDITION:** Air 50°F/ Water 80°F/ Humidity 63% | | | | |
| Heating capacity (BTU) | 17,500 | 21,400 | 24,000 | 28,000 |
| COP Range | 4.5 ~ 4.1 | 5.0 ~ 4.0 | 5.5 ~ 4.6 | 6.2 ~ 5.0 |
| **TECHNICAL SPECIFICATIONS** | | | | |
| Advised pool volume (gallons)* | ≤8,000 | ≤11,000 | ≤14,000 | ≤18,000 |
| Operating air temperature (°F) | 32 ~ 109 | | | |
| Heat exchanger | Titanium in PVC | | | |
| Power supply | 230V/1 Ph/60Hz | | | |
| Water connections (in) | 1.5 | | | |
| Rated input power at Air 80°F (BTU) | 900 ~ 4,800 | 1,300 ~ 6,400 | 1,500 ~ 8,200 | 1,900 ~ 11,500 |
| Rated input current at Air 80°F (A) | 1.17 ~ 6.17 | 1.61 ~ 8.13 | 1.87 ~ 10.43 | 2.35 ~ 14.65 |
| Maximum input current (A) | 9.0 | 10.8 | 12.8 | 16.8 |
| Sound level at 10ft (dBA) | 33.2 ~ 45.0 | 33.8 ~ 45.2 | 34.7 ~ 45.8 | 38.4 ~ 47.1 |
| Advised water flow (gal/min) | 13.2 ~ 17.7 | 17.7 ~ 26.4 | 21.9 ~ 30.6 | 28.5 ~ 37.5 |
| Net dimension, LxWxH (in) | 37.8×12.4×25.9 | 37.8×12.4×25.9 | 37.8×12.4×25.9 | 37.8×15.6×25.9 |
| Net Weight (lb) | 103.6 | 101.4 | 114.7 | 134.5 |

* The data above is only for reference. For specific data, please refer to the nameplate on the unit.

madimack

www.madimack.com