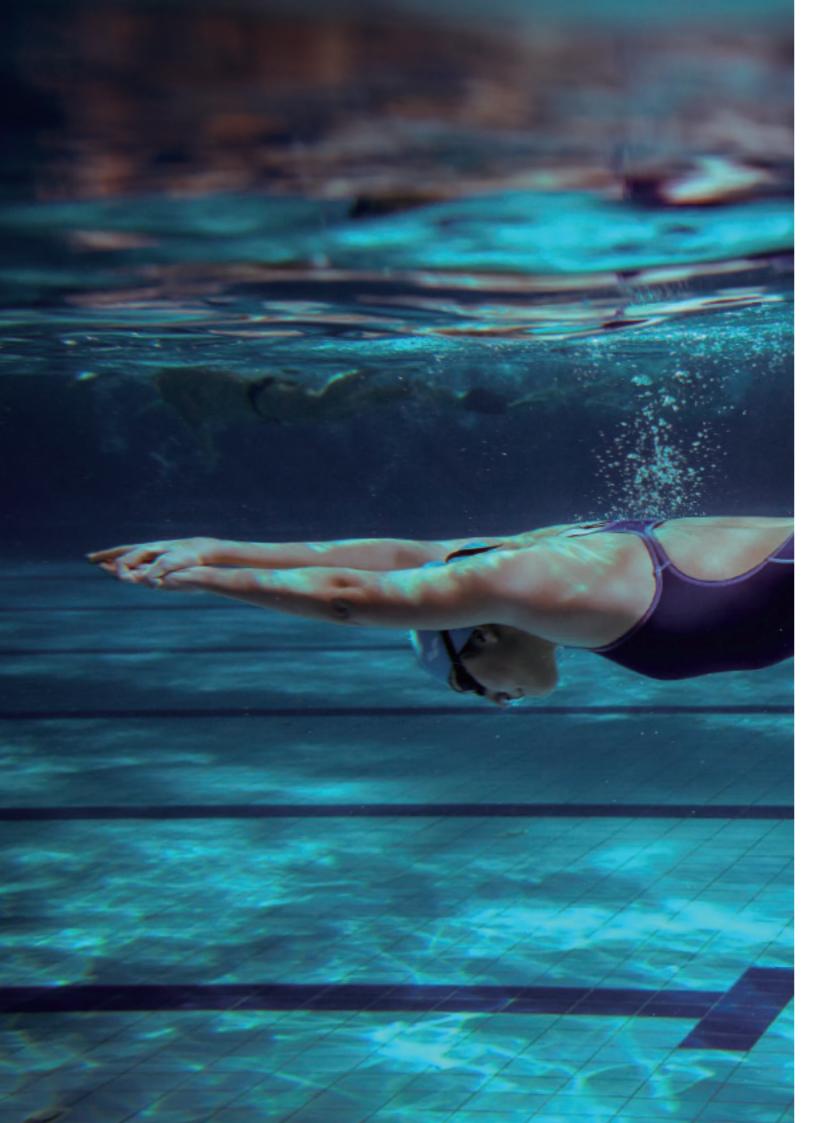




## Heat Pump Pool Heaters

Summer Eco | Elite Silent | Eclipse | Commercial Series



# About Madimack

Madimack is 100% Australian owned and operated, providing energy efficient systems, services and solutions to manufacturing, healthcare, government facilities, and homes nationwide. We have always been big when it comes to heating and cooling buildings efficiently, and now we are bringing that expertise to your pool environment, too. We strive for reliability, durability, and energy efficiency, and promise you the highest quality by providing the longest pool heat pump warranty on the market.

Renowned for creative, energy efficient solutions, Madimack's engineering department is at the forefront of design and sustainability. We offer a full range of systems from small residential through to the most complex year-round commercial heating systems. We provide designs, installation, energy modelling, and smart control system integrations. It's time to create a synchronised, sustainable solution for your needs.

All Madimack's residential heat pumps use the latest inverter technology and through rigorous testing and research we are constantly improving the quality, efficiency and reliability. By using only the very best technology and sourcing superior components from world leading manufacturers, our heat pumps continue to perform year after year.

# What are heat pumps?

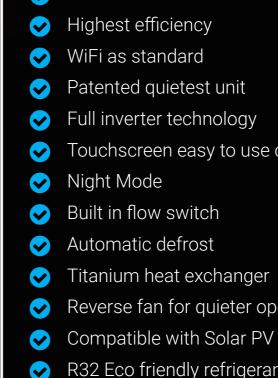
A pool heat pump uses electricity to operate and as the name suggests transfers or "pumps" heat from one place to another. Working like a reverse air conditioner, the unit extracts the heat from the outside air and transfers it to the pool water. This method of renewable heat transfer is proven to be the most efficient form of pool heating. Madimack heat pumps are designed for Australian conditions by taking advantage of the mild climate and high humidity. They produce best in class efficiency to keep your pool warm for when you need it, making your garden the oasis that you dream of.

# Our heat pump technology

Madimack heat pumps include a titanium heat exchanger with a 25-year guarantee combined with a corrosion resistant evaporator coil for the most durable heat exchanger combination in the industry. These products are also TüV certified to give you peace of mind. The TüV Rheinland testing body is an international service group of engineers and product testers. It establishes international standards that can be used as a base of comparison for these products that are used to satisfy their performance and quality, and encourages manufacturers to improve the efficiency of their equipment. Carried out on a voluntary basis, these certification programs test equipment at random conditions and confirm that it performs as advertised. In addition, Madimack heat pumps are lightweight, compact and very easy to install, making them ideal for new pools or enhancing the one you already have.

# INVERTER TECHNOLOGY





Electronic expansion valve  $\checkmark$ 

## **SERVICES**

- $\checkmark$
- $\checkmark$
- $\checkmark$
- $\checkmark$

## **INVERTER TECHNOLOGY**

- $\checkmark$  $\checkmark$  $\checkmark$
- $\checkmark$ 
  - Soft start operation

Up to 25 years warranty TüV Rheinland tested Touchscreen easy to use controller

Reverse fan for quieter operation R32 Eco friendly refrigerant

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

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





# <u>summer</u> eco

### **ECONOMIC HEAT PUMP SERIES**

Built with efficiency and simplicity in mind the quiet, long lasting and easy to use Summer Eco is perfect for energy conscious minds. With low energy and night time mode, it means efficiency can be is increased by up to 20%, and with WiFi as standard you can change your pool temperature and timers from wherever you are. State of the art anticorrosion ABS casing means you can be sure your pool stays warm season after season no matter where you live.



## **SPECIFICATIONS**

Model	SE09	SE13	SE16	SE20	SE24
PERFORMANCE CONDITION: Air 2	27°C/ Water 27°C,	/ Humid. 80%			
Heating capacity (kW)	9.0	13.0	16.0	20.2	24.2
COP Range	10.5~6.2	10.8~6.3	10.7~6.2	10.8~6.2	10.8~6.3
Average COP at 50% Speed	9	9.2	9.1	9.1	9.2
PERFORMANCE CONDITION: Air 1	5°C/ Water 26°C	/ Humid. 70%			
Heating capacity (kW)	6.5	9.0	11.0	14.0	16.0
COP Range	6.5~4.2	6.2~4.5	6.6~4.3	6.5~4.2	6.6~4.5
Average COP at 50% Speed	6.1	6.0	6.1	6.1	6.2
TECHNICAL SPECIFICATIONS					
Operating air temperature (c)			-10 to +43		
Heat exchanger	Twisted Titanium Heat Exchanger				
Power supply			240v		
Electrical connection	10A plug	15A plug	Hard wired	Hard wired	Hard wire
Rated input power (kW)	0.28~1.55	0.41~2.01	0.50~2.56	0.60~3.26	0.72~3.81
Rated input current (A)	1.21~6.73	1.76~8.70	2.17~11.12	2.61~14.16	3.13~16.5
Maximum input current (A)	9.5	12.5	17.0	19.5	20.0
Sound level at 1m dB(A)	41.6~53.5	43.9~54.0	46.2~57.3	46.3~58.1	46.9~58.7
Sound level at 10m dB(A)	21.6~33.5	23.9~34	26.2~37.3	26.3~38.1	26.9~38.7
Advised water flux (L/Min)	50-70	60-80	80-120	120-150	150-200
Water connection (mm)			40mm		
Weight (kg)	47	49	60	68	68
Dimension L x W x H	872x349x654	872x349x654	962x349x654	962x349x754	961×420×758

# WHISPER QUIET SILENT DESIGN



# elite

### **SILENT HEAT PUMP SERIES**

The Elite Silent Series comprises of all the best you can ask for in a pool heater. Utilising the newest inverter technology, it creates world class efficiencies and runs quieter than any other unit with its patented back discharge design. This unit stands high above the rest and looks amazing next to your designer pool. With unit size achieving a massive 28kW in single phase you can be sure to heat your pool all-year round.

Extremely energy efficient with an average C.O.P of 10	V Titanium heat exchanger with 25-year warranty
Full inverter stepless compressor and fan	Four-year extended warranty
Sleek designer look.	Reverse discharge air outlet
Six models up to 28 kW in single phase	<ul> <li>Automatic defrost function</li> </ul>
V Three phase 35kW model	Built-in flow switch and safety devices
✓ Patented silent design	Newest most eco-friendly R32 Refrigerant
High quality anti-corrosion aluminium alloy casing	V Three coil evaporator for a more compact unit size
Intuitive touch screen display	V TüV Rheinland certified
Vi-Fi as standard	Vp to 40 degrees set point temperature

## **SPECIFICATIONS**

lodel	ES110	ES130	ES170	ES210	ES280	ES350S
PERFORMANCE CONDITION: Air	27°C/ Water 27°C	/ Humid. 80%				
Heating capacity (kW)	11.0	13.0	17.5	21.0	28.0	35.2
COP Range	14~7	14.5~7.2	15.6~7	14.8~7.1	16~7.3	15.5-7
Average COP at 50% Speed	10.3	10.8	11	11	11.1	10.5
PERFORMANCE CONDITION: Air	15°C/ Water 26°C	/ Humid. 70%				
Heating capacity (kW)	7.7	9.0	12.5	14.5	19.0	24.2
COP Range	7.3~4.7	7.5~5	7.8~5.2	7.1~5	8~5	7.5-5
Average COP at 50% Speed	6.6	6.7	7	6.8	6.8	6.6
TECHNICAL SPECIFICATIONS						
Operating air temperature (c)			-10 t	0 +43		
Compressor			Twin-Rotary	Mitsubishi DC		
Heat exchanger		T	wisted Titaniun	n Heat Exchang	ger	
Power supply	240v	240v	240v	240v	240v	415v
Electrical connection	15A plug	15A plug	Hard wired	Hard wired	Hard wired	Hard wire
Rated input power (kW)	0.22~1.64	0.26~1.8	0.32~2.41	0.38~2.90	0.49~3.8	0.65~4.84
Rated input current (A)	0.96~7.13	1.13~7.83	1.39~10.5	1.66~12.7	2.15~16.53	0.95~7.01
Maximum input current (A)	10	12	15	17	20	9.5
Sound level at 1m dB(A)	36.6~47.9	40.1~48.7	41.1~51.8	38.9~52.2	41.5~52.9	40.6~52.6
Sound level at 10m dB(A)	16.6~27.9	20.1~28.7	21.1~31.8	18.9~32.2	21.5~32.9	20.6~32.6
Advised water flux (L/Min)	50-70	60-80	80-120	120-150	160-200	200-250
Water connection (mm)			40	mm		
Net weight (kg)	55	57	66	72	91	116
Dimensions L x W x H	890x440x658	890x440x658	1060x440x658	1060 x 440 x 758	1060 x 440 x 958	1314 x 512 x 9





# Se

### **COOLING AND HEATING SERIES**

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 more a concern.



## SPECIFICATIONS

lodel	MTD160 MTD210		MTD260		
PERFORMANCE CONDITION: Air	27°C/ Water 27°C/ Humid	. 80%			
Heating capacity (kW)	16.5	21.0	26.0		
COP Range	15.2~7.0	15.6~7.0	15.0~6.9		
Average COP at 50% Speed	10.5	0.5 11.0			
PERFORMANCE CONDITION: Air	15°C/ Water 26°C/ Humic	l. 70%			
Heating capacity (kW)	11.7	15.1	18.0		
COP Range	7.2~5.1	7.2~5.0	6.5~4.5		
Average COP at 50% Speed	6.8	6.7	6.0		
TECHNICAL SPECIFICATIONS					
Operating air temperature (c)		-10 to +43			
Casing	Aluminum-alloy Casing				
Heat exchanger	Twisted Titanium Heat Exchanger				
Power supply		230V 1Ph			
Electrical connection	Hard wired	Hard wired	Hard wired		
Rated input power (kW)	0.48~2.29	0.62~3.02	0.80~4.00		
Rated input current (A)	2.08~9.95	2.69~13.13	3.5~17.4		
Maximum input current (A)	13.3	17.5	20.0		
Sound level at 1m dB(A)	41.2~54.9	42.8~54.7	41.5~55.2		
Sound level at 10m dB(A)	21.2~34.9	32.8~34.7	31.5~35.2		
Advised water flux (L/Min)	80-120	130-170	170-200		
Water connection (mm)		40mm			
Weight (kg)	65	72	88		
Dimension L x W x H	776x687x656	776x687x656	776x687x755		



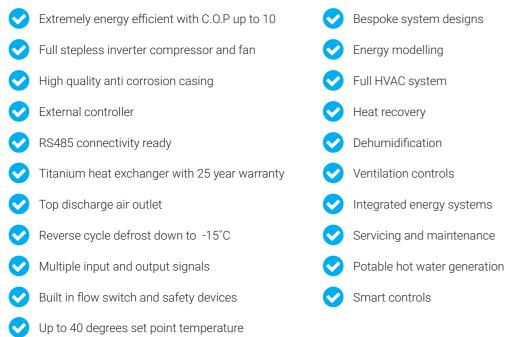


# elite max

#### **COMMERCIAL HEAT PUMP SERIES**

These powerful commercial heaters have the capacity to cope with the demands of any aquatic facility. Built with cutting edge technology and climate adaptive features, the Madimack commercial range keeps up all year round whilst reducing energy bills significantly.

#### **MAIN BENEFITS**



#### **COMMERCIAL RANGE SERVICES**

TECHNICAL SPECIFICATIONS	
Operating air temperature (c)	
Compressor	
Heat exchanger	
Fan direction	
Power supply	
Rated input power (kW)	2.26
Rated input current (A)	3.27
Sound level at 1m dB(A)	-
Max input current (A)	
Sound level at 1m dB(A)	53.0
Sound level 50% at 1m dB(A)	Į
Sound level at 10m dB(A)	33.0
Advised water flux (L/min)	320
Water connection (mm)	6
Net dimension LxWxH (mm)	1000x1

**SPECIFICATIONS** 

Model

COP Range

COP Range

Heating capacity (kW)

Heating capacity (kW)

Cooling capacity (kW)

Average COP at 50% Speed

Average COP at 50% Speed

Net Weight (kg)





RESORTS

**WELLNESS** CENTRES

HOTELS

60S 110S PERFORMANCE CONDITION: Air 27°C/ Water 27°C/ Humid. 80% 115 60.2 15-6.5 15-6.5 10.5 10 PERFORMANCE CONDITION: Air 15°C/ Water 26°C/ Humid. 70% 40.1 80.8 7.5-4.7 7.5-4.7 6.8 6.8 PERFORMANCE CONDITION: Air 35°C/ Water 28°C/ Humid. 80% 53.5 26.8 -7 ~ 43 Mitsubishi DC Inverter Compressor Twisted Titanium Heat Exchanger Vertical 400V 3Ph/50Hz 6~8.90 4.68~17.5 7~12.9 6.78~25.3 70 75 20 40 0~61.0 55.0~64.0 55 58 35.0~44.0 0~41.0 20-400 650-800 65 80 1000x1110x1260 2100×1090×1280 212 459









**SCHOOLS** 

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**PUBLIC POOLS** 



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