

madimack

HOT WATER

**Multi-Residential
Hotels & Resorts
Hospitals
Schools
Industrial**

Commercial
Hot Water

ADVANCED INVERTER TECHNOLOGY

Madimack's inverter based Commercial Hot Water solution is a 'market leading' offering. These premium engineered units are equipped with significant advantages over standard "on/off" solutions, including;

Increased control over temperature for perfectly regulated hot water

An average 30% increase in efficiencies

Optimised COP

Soft start benefits

Reduced mechanical sound/ noise levels

No additional load on electrical systems



HEAT PUMPS

Leading global renewable resource based on efficiencies and performance

Heat Pump technologies are out performing gas and electric elements in all key metrics; cost, performance, efficiencies, longevity, maintenance and, importantly, renewability. This advanced technology is incredibly efficient, using a small amount of energy to extract heat from the air and recycle that heat through your hot water tank. They are the most energy efficient way to heat water, using approximately one third of the energy used by alternate

systems. 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.

Benefits of Heat Pumps are various and include;

- Source of renewable energy
- Efficient in higher temperatures and effective in low temperatures
- Superior efficiencies
- Convenient (no roof space or panels required)
- High grade production and engineering
- Extended life spans & lower maintenance requirements
- Safe (no combustion)
- Supported by ongoing development and innovation (international growth industry)

SIMPLIFYING HOT WATER Bespoke Services

Based on an unmatched commitment to engineering, research and development, Madimack have both the insight and capacity to simplify hot water solutions. With a single minded focus on optimising operational efficiencies, the company's initiatives lower installation costs, reduce time onsite and increase client satisfaction.



Simplifying Hot Water Solutions

PRODUCTS & SPECS



17kW



19kW



35kW



70kW



135kW

Model	MHW17	MHWD19	MHWD35	MHW70	MHW135
PERFORMANCE CONDITION: Air 20/15°C/ Water 15-65°C					
Hot Water Capacity (kW)	6.0~17.0	19.0	35.0	70.0	135.0
TECHNICAL SPECIFICATIONS					
Power Input (kW)	1.5-5.0	5.3	9.2	19.0	38.6
COP (W/W)	3.0-4.0	3.58	3.68	3.68	3.50
Hot Water Volume (L/h)	110~290	326	602	1,204	2,321
Max. Power Input (kW)	6.6	7.5	18.1	36.2	64.4
Max. Running Current (A)	29	14.3	32.3	64.6	108.5
Power Supply (V/Ph/Hz)	230V/1/50~60Hz	380~415V/3N~/50Hz			
Compressor Quantity	1	1	1	2	4
Compressor Type	Rotary	Scroll			
Compressor Brand	Panasonic	Copeland			
Fan Quantity	1	2	1	2	2
Circulation Water Pump	Grundfos UPM3K 15-70	Grundfos CM3-3	Grundfos CM5-3	Grundfos CM10-2	/
Fan Motor Input (W)	200	200x2	750	750x2	1,800x2
Water Flow Volume (m³/h)	2	3.3	6.0	12.0	23.2
Water Pressure Drop (kPA)	20	25	38	42	45
Water Connection	1 inch	1.2 inch	DN40 Flange	DN65 Flange	DN80 Flange
Noise (dB(A))	53	58	65	68	70
Air Volume (m³/h)	4,000	5,000x2	12,000x1	14,000x2	23,000x2
Air Discharge Type	Horizontal	Horizontal	Vertical	Vertical	Vertical
Max. Outlet Water Temp. (°C)	75	80			
Operation Range (°C)	-7~45				
Condenser	Tube in Shell Heat Exchanger				
Evaporator	High Efficiency Aluminum Finned Heat Exchange				
Defrosting	4-Way Valve				
Controller	DigitalController				
Display	5 inch Smart Central Display				
Refrigerant	R134a				
Carbinet	Eco-friendly Galvanized Metal / Stainless Steel for Option				
Net Weight (kg)	120	219	468	600	1,050
Gross Weight (kg)	140	238	512	643	1,100
Net Dimensions LxWxH (mm)	1,230x510x915	1,175x400x1,605	1,195x980x1,900	1,930x1,050x1,980	2,350x1,150x2,370
Shipping Dimensions LxWxH (mm)	1,240x545x1,045	1,205x450x1,730	1,220x1,020x1,950	1,980x1,020x2,050	2,400x1,300x2,500
TANK SPECIFICATIONS					
500 (litre)	Duplex SS 1.5mm	50mm Polyurethane	1820mm (H)	700mm (DIA)	

ENERGY
EFFICIENTHEAT PUMP
TECHNOLOGY

FAST & STABLE

BULK WATER
UP TO

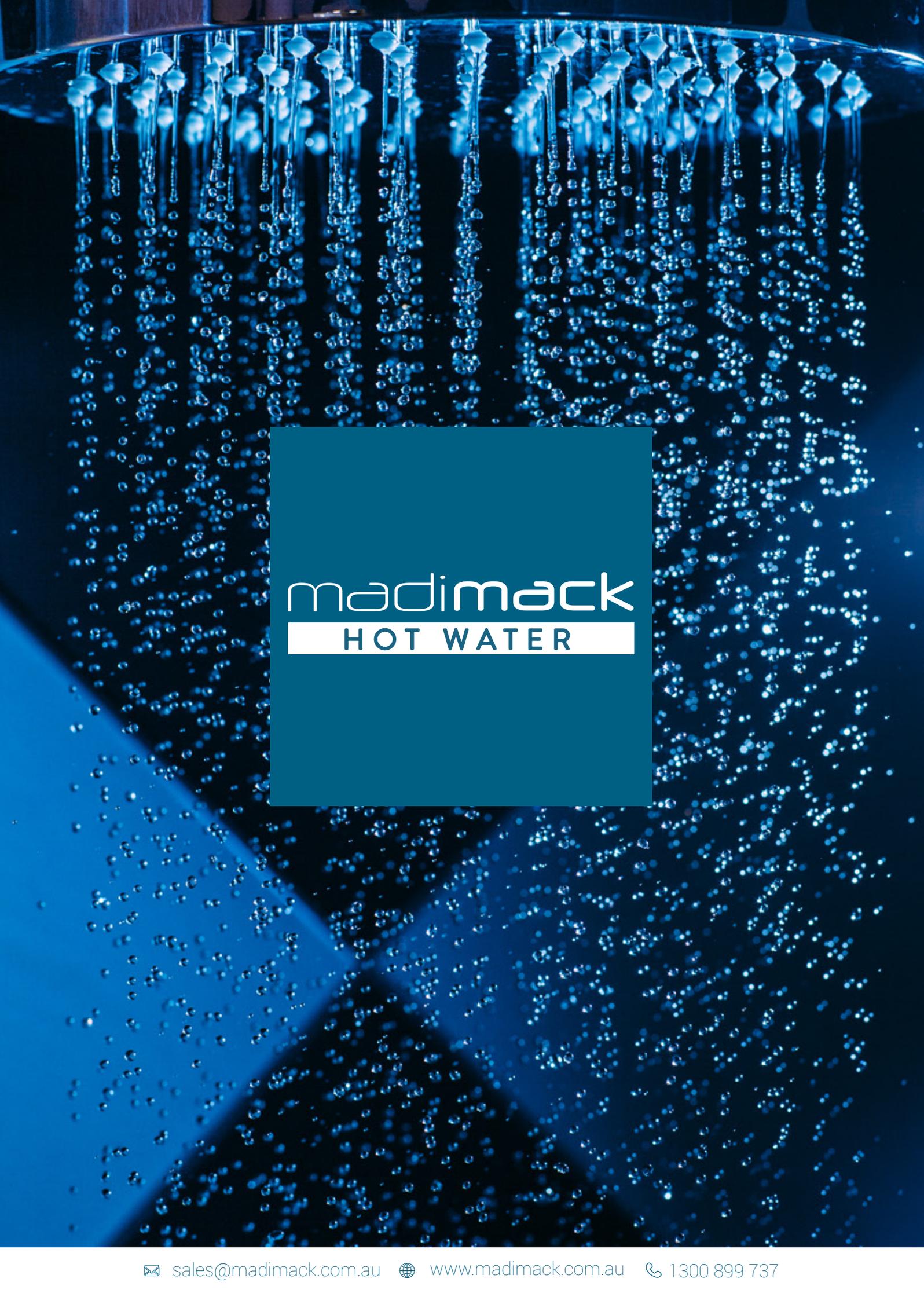
80°C

PLUMBED &
PIPED SKID

Madimack's commercial hot water range is based on simplifying hot water solutions. As a business we work hard to ensure we are tailoring solutions inline with client needs. Specifically, Madimack's commercial hot water range not only offers the most efficient and technologically developed solutions, we also specialise in prefabricated solutions for ease of installation.

Madimack is Australia's authority in Heat Pump technology, specialising in the delivery of premium, sustainable, electrical solutions to market. We believe in innovation without compromise, with a focus on engineering products that increase industry standards, drive technology, increase efficiencies and reduce Australia's carbon foot-prints.

Fully Australian owned and operated, Madimack was founded on 50 years of industry expertise and a rigorous commitment to ongoing research and development. Today, via an integral combination of key national distributors and expert international partners, Madimack has both the access and insight to drive advancements in residential and commercial energy solutions for all Australians.



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