

# inverECO

## ENERGY EFFICIENT POOL HEATING SOLUTION

Madimack's InverECO pool heating series is built with efficiency and simplicity in mind. Powered by Madimack's InverMAC technology to enhance performance and fitted with premium aluminum alloy casing for endurance, the InverECO is a value-packed backyard pool heating solution. Boasting the smallest footprint for easy installation and Wi-Fi included as a standard feature, it delivers on performance and convenience; busy pool owners can change their pool's temperature and timers from wherever their day takes them. The InverECO is the go-to heating solution to extend the backyard pool season.



### Soft Start

InverECO will start from 0 amps and increase steadily to protect your electrical system



### Heat & cool

With integrated heating and cooling into a single unit, enjoy your swimming pool any season of the year



### Boost & silence

Switch between Boost Mode to heat your pool faster and Silence Mode when quieter operation is preferred



### Dedicated pool heating inverter control system



### Wi-Fi module and smart app



### Electronic expansion valve technology



### Twisted titanium heat exchanger



### Twin-rotary Inverter compressor



### Down to 32°F operation temperature



madimack

Powered by  **invermac**  
TECHNOLOGY



## TECHNICAL PARAMETERS

Model	IEA320	IEA400	IEA500	IEA660
<b>PERFORMANCE CONDITION: Air 80°F/ Water 80°F/ Humidity 80%</b>				
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
<b>PERFORMANCE CONDITION: Air 80°F/ Water 80°F/ Humidity 63%</b>				
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
<b>PERFORMANCE CONDITION: Air 50°F/ Water 80°F/ Humidity 63%</b>				
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
<b>TECHNICAL SPECIFICATIONS</b>				
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)	37.8x12.4x25.9	37.8x12.4x25.9	37.8x12.4x25.9	37.8x15.6x25.9
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.