

ENERGY EFFICIENT POOL HEATING SOLUTION

InverECO is powered by InverMAC Technology, Madimack's enhanced inverter technology, enabling optimized control of the pump's motor. The result is dramatic reduction in energy consumption and reduction in operating noise. For backwashing purposes, the InverECO can operate at 100% speed, in contrast, when used during daily filtration, which requires a reduced flow rate, the pump aligns and drops its operating rate.



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



Optional Wi-Fi module and smart app



Electronic expansion valve technology



Twisted titanium heat exchanger



Twin-rotary Inverter compressor



Down to 32°F operation temperature



**advanced
sound
suppression
technology**





TECHNICAL PARAMETERS

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 flux (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.