inverECO

ENERGY EFFICIENT POOL HEATING SOLUTION

Trusted by
POOL PROFESSIONALS

Madimack's inverECO pool heating and cooling 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

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Globally Recognized. Industry Respected.

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Intertek

TITLE 24 COMPLIANT

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Powered by invermac TECHNOLOGY

TECHNICAL PARAMETERS

Model	inverECO 32,000	inverECO 40,000	inverECO 50,000	inverECO 66,000
Model Number	IEAC320	IEAC400	IEAC500	IEAC660
SKU	INVECO320	INVECO400	INVECO500	INVECO660
PERFORMANCE CONDITION: AIR 80°F / WATER 80°F / HUMIDITY 80%				
Heating capacity (BTU)	31,500	37,000	46,000	61,000
COP Range	6.4	5.8	6	6
PERFORMANCE CONDITION: AIR 80°F / WATER 80°F / HUMIDITY 63%				
Heating capacity (BTU)	30,000	36,000	44,000	57,500
COP Range	6	5.4	5.7	5.6
PERFORMANCE CONDITION: AIR 50°F / WATER 80°F / HUMIDITY 63%				
Heating capacity (BTU)	16,000	19,500	19,000	25,000
COP Range	4	4	4.1	4.9
TECHNICAL SPECIFICATIONS				
Cooling capacity (BTU)	16,800	19,600	21,500	27,000
Temperature set point range (°F/ °C)	64~104/ 18~40			
Operating air temperature (°F/ °C)	32 ~ 109/ 0–42.8			
Heat exchanger	Titanium in PVC			
Power supply	208V ~ 230V/1 Ph/60Hz			
Electrical Connection	Hardwired (3 × 12 AWG/ 3 × 4.0 mm²)	Hardwired (3 × 12 AWG/ 3 × 4.0 mm²)	Hardwired (3 × 10 AWG/ 3 × 6.0 mm²)	Hardwired (3 × 10 AWG/ 3 × 6.0 mm²)
Minimum Circuit Ampacity (MCA)	15	15	25	25
Max. Rating Overcurrent Protection (MOP)	20	20	25	25
Rated input power (kW) at air 80°F	0.22 ~ 1.40	0.31 ~ 1.95	0.38 ~ 2.36	0.50 ~ 3.12
Rated input current (A) at air 80°F	0.96 ~ 6.09	1.36 ~ 8.48	1.65 ~ 10.26	2.17 ~ 13.57
Maximum input current (A)	10.8	10.8	12.8	16.8
Sound level at 10ft dB(A)	33.2 ~ 45.0	33.8 ~ 45.2	34.7 ~ 45.8	38.4 ~ 47.1
Advised water flux/ flow ± 20% (GPM/ LPM)	13.2 ~ 17.7/ 50 ~ 67	17.7 ~ 26.4/ 67 ~ 100	21.9 ~ 30.6/ 83 ~ 116	28.5 ~ 37.5/ 108 ~ 142
Water pressure drop(Kpa)	3	3	3.5	4
Water connection (inch/ mm)	1.5"/ 40 mm			
Refrigerant Gas	R410A			
Net dimension LxWxH (inch/ mm)	37.6" × 12.5" × 25.5"/ 954 × 318 × 647	37.6" × 12.5" × 25.5"/ 954 × 318 × 647	37.6" × 12.5" × 25.5"/ 954 × 318 × 647	37.6" × 15.3" × 25.5"/ 954 × 388 × 648
Net Weight (lb/kg)	108/ 49	108/ 49	123.5/ 56	141.1/ 64
Gross Weight (lb/kg)	125.7/ 57	125.7/ 57	141.1/ 64	160.9/ 73
Packaging dimension LxWxH (inch/ mm)	40.9" × 14.8" × 26.4"/ 1040 × 375 × 670	40.9" × 14.8" × 26.4"/ 1040 × 375 × 670	40.9" × 14.8" × 26.4"/ 1040 × 375 × 670	40.9" × 17.7 " × 26.6"/ 1040 × 450 × 675

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

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