

## ENERGY EFFICIENT POOL HEATING SOLUTION

InverECO PLUS is Madimack's revamped InverECO range. The upgraded PLUS series now delivers heating and cooling capacity, a sleek, user-friendly interface, all wrapped up in a premium outer casing. Perfect for energy conscious pool owners, InverECO PLUS ensures your pool stays at the ideal temperature year-round. With built-in Wi-Fi and innovative "low energy" and "night" modes, it enhances efficiency by up to 20%. InverECO PLUS simply and efficiently extends your family's swimming season, all while reducing energy consumption.



### Soft Start

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



### Anti-corrosion ABS casing

Protects your pool heat pump year-round. Small footprint and corrosion resistant casing



### 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



### Full Stepless DC Compressor



### Down to 0°C operation temperature





1 YEAR LABOUR WARRANTY.



## TECHNICAL PARAMETERS

| Model  | EPNC09                          | EPNC13         | EPNC16       | EPNC20       | EPNC24       | EPNC28        |
|--|---------------------------------|----------------|--------------|--------------|--------------|---------------|
| <b>PERFORMANCE CONDITION: Air 27°C/ Water 27°C/ Humid. 80%</b> |                                 |                |              |              |              |               |
| Heating capacity (kW)  | 9.0                             | 13.0           | 16.0         | 20.2         | 24.2         | 28.0          |
| COP Range  | 10.5 ~ 6.2                      | 10.8 ~ 6.3     | 10.7 ~ 6.2   | 10.8 ~ 6.2   | 10.8 ~ 6.3   | 11 ~ 6.3      |
| Average COP at 50% Speed                                       | 9.0                             | 9.2            | 9.1          | 9.1          | 9.2          | 9.2           |
| <b>PERFORMANCE CONDITION: Air 15°C/ Water 26°C/ Humid. 70%</b> |                                 |                |              |              |              |               |
| Heating capacity (kW)  | 6.5                             | 9.0            | 11.0         | 14.0         | 16.0         | 19.5          |
| COP Range  | 6.5 ~ 4.2                       | 6.2 ~ 4.5      | 6.6 ~ 4.3    | 6.5 ~ 4.2    | 6.6 ~ 4.5    | 6.5 ~ 4.4     |
| Average COP at 50% Speed                                       | 6.1                             | 6              | 6.1          | 6.1          | 6.2          | 6.2           |
| <b>PERFORMANCE CONDITION: Air 35°C/ Water 28°C/ Humid. 80%</b> |                                 |                |              |              |              |               |
| Cooling capacity (kW)  | 3.6                             | 5              | 6.1          | 7.7          | 8.8          | 10.8          |
| <b>TECHNICAL SPECIFICATIONS</b>                                |                                 |                |              |              |              |               |
| Advised pool volume (m3)*                                      | 20-45                           | 35-65          | 40-75        | 50-90        | 60-110       | 65-120        |
| Operating air temperature (°C)                                 | 0 ~43                           |                |              |              |              |               |
| Temperature set point range (°C)                               | 12 ~ 40                         |                |              |              |              |               |
| Heat exchanger   | Twisted Titanium Heat Exchanger |                |              |              |              |               |
| Compressor   | Full Stepless DC Compressor     |                |              |              |              |               |
| Power supply   | 230V 1Ph                        |                |              |              |              |               |
| Rated input power (kW)   | 0.28 ~ 1.55                     | 0.41 ~ 2.01    | 0.50 ~ 2.56  | 0.60 ~ 3.26  | 0.72 ~ 3.81  | 0.89 ~ 4.43   |
| Input power at 50% Speed (kW)                                  | 0.53                            | 0.75           | 0.9          | 1.15         | 1.29         | 1.58          |
| Rated input current (A)  | 1.21 ~ 6.73                     | 1.76 ~ 8.70    | 2.17 ~ 11.12 | 2.61 ~ 14.16 | 3.13 ~ 16.56 | 3.87 ~ 19.3   |
| 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  | 48.6 ~ 60.5   |
| Sound level by 50% speed 1m dB(A)                              | 46.8                            | 49.5           | 49.7         | 50.6         | 51.1         | 52.8          |
| Sound level at 10m dB(A)                                       | 21.6 ~ 33.5                     | 23.9 ~ 34.0    | 26.2 ~ 37.3  | 26.3 ~ 38.1  | 26.9 ~ 38.7  | 28.6 ~ 40.5   |
| Advised water flow (m³/h)                                      | 3 ~ 5                           | 4 ~ 6          | 6 ~ 8        | 7 ~ 10       | 10 ~ 12      | 10 ~ 12       |
| Water connection (mm)  | 40                              |                |              |              |              |               |
| Net dimension LxWxH (mm)                                       | 864*359*648                     | 864*359*648    | 954*359*648  | 954*359*748  | 954*429*748  | 1122*415*958  |
| Net weight (kg)  | 46                              | 49             | 60           | 68           | 68           | 90            |
| Maximum input current (A)                                      | 8                               | 10 (with plug) | 17           | 19.5         | 20.5         | 20            |
| Power cord (mm²)   | 3x1.5                           | 3x1.5          | 3x4          | 3x4          | 3x4          | 3x4           |
| Gross Weight (kg)  | 52                              | 55             | 67           | 76           | 78           | 107           |
| Packaging dimension LxWxH (mm)                                 | 950*375*675                     | 950*375*675    | 1040*375*675 | 1040*375*775 | 1040*435*770 | 1130*430*1000 |

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

\* Advised pool volume applies to a private pool with isothermal cover, from April to September.