

# inverTITAN

## POWERFUL PERFORMANCE. EFFICIENT OPERATION.

Designed and engineered to meet the highest requirements for cooling and heating options, with full inverter compressor and top discharge fans for a streamlined efficient air flow. Powerful performance supported by the latest eco-friendly technology. Enjoy new possibilities for pool heating and cooling with the space saving and slick design of the InverTITAN. Limited space is no longer a concern. Full Stepless DC Compressor, marine grade aluminium alloy casing, Twisted Titanium Heat Exchanger and Madimack's Advanced Sound Suppression Technology for whisper quiet operation.



### Heat & Cool

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



### Operation down to 14°F

Built to operate in the coldest weather and extend your pool season into the winter



### Built-in Wi-Fi

Built-in Wi-Fi and a smart app provide convenience to control your pump on-the-go



### Twin-rotary compressor

Significantly reduced operating noise



### Electronic expansion valve

Optimized flow of refrigerant 20% higher COP



### Twisted titanium heat exchanger

Increased area for heat exchange 40% higher efficiency



### Smart & quick defrosting

InverTITAN is equipped with reverse cycle defrosting detecting frost accumulation during operation and automatically switch to defrosting mode



**advanced  
sound  
suppression  
technology**



Globally Recognized. Industry Respected.



**Intertek**



madimack

Powered by



**invermac**  
TECHNOLOGY



## TECHNICAL PARAMETERS

| Model Name                                                  | inverTITAN 90,000                                   | inverTITAN 112,000                                  | inverTITAN 140,000                                  |
|-------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| Model Number                                                | ITVC090                                             | ITVC112                                             | ITVC140                                             |
| SKU                                                         | INVTIT090                                           | INVTIT112                                           | INVTIT140                                           |
| PERFORMANCE CONDITION: AIR 80°F / WATER 80°F / HUMIDITY 80% |                                                     |                                                     |                                                     |
| Heating capacity (BTU)                                      | 80,000                                              | 107,000                                             | 133,000                                             |
| COP Range                                                   | 5.9                                                 | 5.7                                                 | 5.2                                                 |
| PERFORMANCE CONDITION: AIR 80°F / WATER 80°F / HUMIDITY 63% |                                                     |                                                     |                                                     |
| Heating capacity (BTU)                                      | 77,000                                              | 100,000                                             | 119,000                                             |
| COP Range                                                   | 5.7                                                 | 5.4                                                 | 4.9                                                 |
| PERFORMANCE CONDITION: AIR 50°F / WATER 80°F / HUMIDITY 63% |                                                     |                                                     |                                                     |
| Heating capacity (BTU)                                      | 41,500                                              | 51,000                                              | 58,000                                              |
| COP Range                                                   | 4.4                                                 | 4.4                                                 | 4.2                                                 |
| TECHNICAL SPECIFICATIONS                                    |                                                     |                                                     |                                                     |
| Cooling capacity (BTU)                                      | 42,000                                              | 56,000                                              | 69,000                                              |
| Temperature set point range (°F/ °C)                        | 64~104/ 18~40                                       |                                                     |                                                     |
| Operating air temperature (°F/ °C)                          | 14 ~ 109/ -10~43                                    |                                                     |                                                     |
| Heat exchanger                                              | Titanium in PVC                                     |                                                     |                                                     |
| Power supply                                                | 208 ~ 230V/1 Ph/60Hz                                |                                                     |                                                     |
| Electrical Connection                                       | Hardwired<br>(3 × 10 AWG/ 3 × 6.0 mm <sup>2</sup> ) | Hardwired<br>(3 × 8.0 AWG/ 3 × 10 mm <sup>2</sup> ) | Hardwired<br>(3 × 6.0 AWG/ 3 × 16 mm <sup>2</sup> ) |
| Minimum Circuit Ampacity (MCA)                              | 25                                                  | 40                                                  | 50                                                  |
| Max. Rating Overcurrent Protection (MOP)                    | 25                                                  | 60                                                  | 80                                                  |
| Rated input power (kW) at air 80°F                          | 0.57 ~ 4.40                                         | 0.7 ~ 5.38                                          | 0.89 ~ 6.84                                         |
| Rated input current (A) at air 80°F                         | 2.49 ~ 19.13                                        | 3.04 ~ 23.39                                        | 3.87 ~ 29.74                                        |
| Sound level at 10ft dB(A)                                   | 34.3 ~ 46.5                                         | 35.2 ~ 48.3                                         | 38.8 ~ 51.1                                         |
| Maximum input current (A)                                   | 21.5                                                | 32.5                                                | 40                                                  |
| Advised water flux/ flow ± 20% (GPM/ LPM)                   | 33.0 ~41.7/ 125 ~ 158                               | 35.1 ~ 48.3/ 133 ~ 167                              | 35.1 ~ 67.1/ 133 ~ 254                              |
| Water Pressure Drop (kPa)                                   | 6                                                   | 10                                                  | 19                                                  |
| Water connection (inch/ mm)                                 | 2/ 50                                               |                                                     |                                                     |
| Refrigerant Gas                                             | R410A                                               |                                                     |                                                     |
| Maximum Air Volume ((m <sup>3</sup> /h)                     | 6500                                                | 7500                                                | 8300                                                |
| Net dimension LxWxH                                         | 35.7" × 27.6" × 38.5"/<br>906 × 701 × 977           | 35.7" × 27.6" × 38.5"/<br>906 × 701 × 977           | 39.1" × 31.7" × 41.5"/<br>992 × 806 × 1054          |
| Net Weight (lb/ kg)                                         | 277.8/ 126                                          | 275.6/ 125                                          | 315.3/ 143                                          |
| Gross Weight (lb/ kg)                                       | 313.1/ 142                                          | 317.5/ 144                                          | 407.9/ 185                                          |
| Packaging dimension LxWxH (inch/ mm)                        | 39.0" × 29.4" × 39.8"/<br>990 × 746 × 1010          | 39.0" × 29.4" × 39.8"/<br>990 × 746 × 1010          | 42.1" × 33.9" × 42.9"/<br>1070 × 860 × 1090         |

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

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