

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.

Trusted by
POOL PROFESSIONALS



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**



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/ -10~42		
Heat exchanger	Titanium in PVC		
Power supply	208V ~ 230V/1 Ph/ 50/60Hz		
Electrical Connection	Hardwired (3 × 10 AWG/ 3 × 6.0 mm ²)	Hardwired (3 × 8.0 AWG/ 3 × 10 mm ²)	Hardwired (3 × 6.0 AWG/ 3 × 16 mm ²)
Minimum Circuit Ampacity (MCA)	25	40	50
Max. Rating Overcurrent Protection (MOP)	25	60	80
Rated input power (kW) at air 80°F	0.63~4.28	0.6~5.4	0.8~6.9
Rated input current (A) at air 80°F	2.88~18.6	2.9~23.7	3.6~31.3
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 ~ 44.1/ 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 ³ /h)	6500	7500	8300
Net dimension LxWxH	35.7" × 27.6" × 38.5"/ 906 × 701 × 977	35.7" × 27.6" × 38.5"/ 906 × 701 × 977	39.1" × 31.7" × 41.5"/ 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"/ 990 × 746 × 1010	39.0" × 29.4" × 39.8"/ 990 × 746 × 1010	42.1" × 33.9" × 42.9"/ 1070 × 860 × 1090

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

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