inverTITAN

POWERFUL PERFORMANCE. EFFICIENT OPERATION.

Trusted by
POOL PROFESSIONALS

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

ASST advanced sound suppression technology

AHRI CERTIFIED® www.ahridirectory.org
Globally Recognized. Industry Respected.

ETL LISTED C US Intertek

TITLE 24 COMPLIANT

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 (3 × 10 AWG/ 3 × 6.0 mm²)	Hardwired (3 × 8.0 AWG/ 3 × 10 mm²)	Hardwired (3 × 6.0 AWG/ 3 × 16 mm²)
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		
Refirgerant Gas	R410A		
Maximum Air Volume ((m³/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

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