CLIMATE

GVTX 48VDC BATTERY-POWERED HVAC

Engineered for efficiency, built for battery-powered freedom.

DIRECT 48VDC INPUT
NO CONVERTERS NEEDED

SMART BATTERY MONITORING
PREVENTS POWER DRAIN

FULL VARIABLE TECHNOLOGY
MAXIMIZES ENERGY EFFICIENCY

30TH DAME CATEGORY WINNER 2021

100-240V/50-60Hz/1-Ph

3,000 - 18,000 BTU

Mobile living made easy.

DOMETIC

G-SERIES GVTX VARIABLE CAPACITY SELF CONTAINED SYSTEM

The GVTX 48VDC Battery-Powered HVAC system is a next-generation climate control solution engineered specifically for electric and hybrid marine vessels. Built on the award-winning Voyager TX platform, this unit delivers powerful, efficient, and intelligent performance in a compact, service-friendly design.

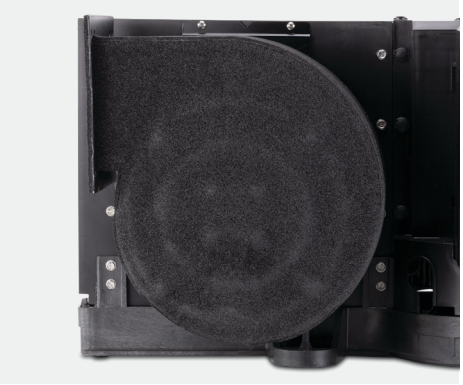
At its core, the GVTX features direct 48VDC input, eliminating the need for bulky AC-DC converters. This not only simplifies installation but also improves overall system efficiency—critical for battery-powered vessels where energy conservation is key. The full variable capacity compressor dynamically adjusts output to match real-time demand, ensuring optimal comfort while minimizing power draw.

A standout feature is the integrated battery monitoring system, which actively protects onboard power reserves by preventing over-discharge. This allows boaters to enjoy longer run times and greater peace of mind while off-grid.

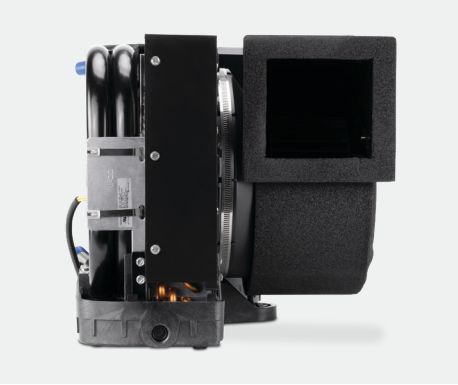
Designed with both OEMs and end users in mind, the GVTX shares its mechanical platform with the high-voltage version, streamlining manufacturing, improving parts availability, and reducing service complexity. Its plug-and-play modularity, quiet operation, and high static EC blower make it ideal for a wide range of vessel types and layouts.

Whether you're cruising silently on electric propulsion or anchored in a remote cove, the GVTX 48VDC delivers reliable, sustainable comfort—without compromise.

Variable Capacity
GVTX variable capacity unit available in two size options that will provide cooling from 10,000BTU to 18,000BTU.



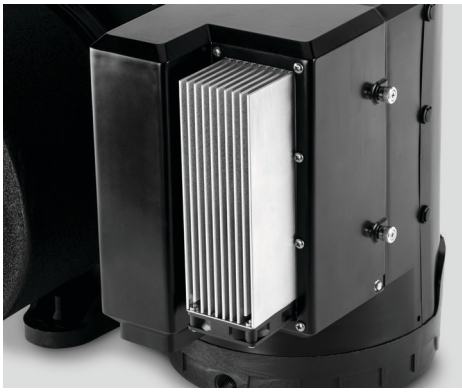
DC Blower
Includes a high static DC blower.



Compact Size
Retro-fittable for Turbo units.

Titanium Condenser
Robust Design.

Sound Cover
Quiet operation.



Direct 48VDC input
Operates directly from 48V battery bank with no adapters required

HIGH EFFICIENCY COOLING IN A COMPACT PACKAGE

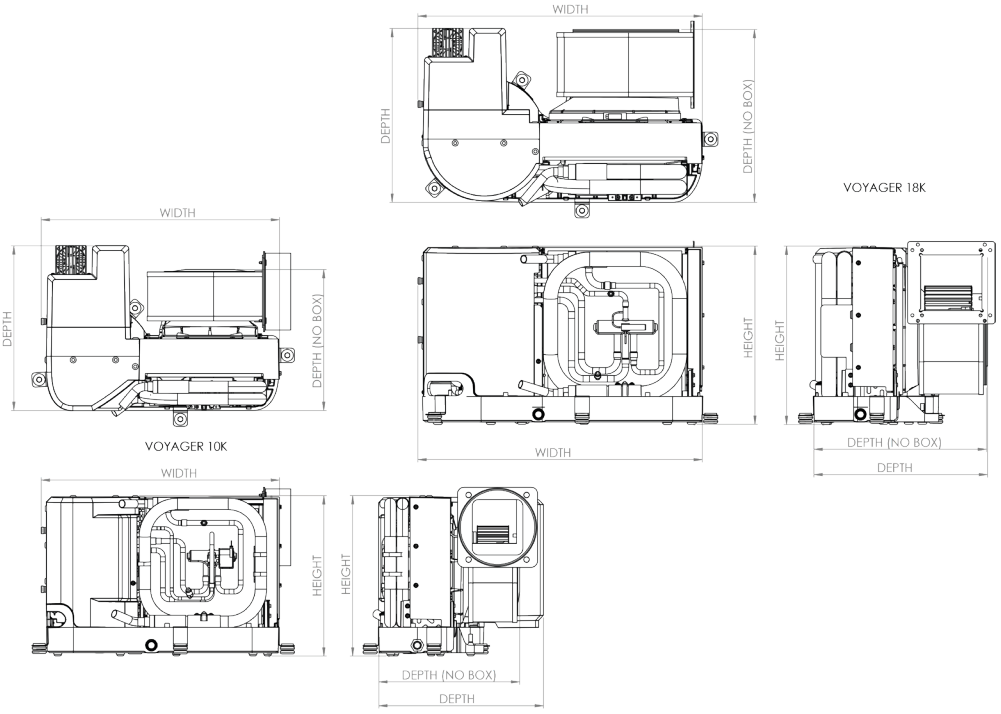
MODEL	GVTX10	GVTX18
Capacity (BTU)	6,0000 - 10,000	12,000 - 18,000
Voltage (V)	48V	48V
Min. Capacity Input Power (W)*	140	200
Full Capacity Input Power (W) *	723	1256
Max. Circuit Breaker 48V (A)	TBA	TBA
Refrigerant Type	R454B	R454B
Height (in/mm)	12.3/312.4	13.6/345.4
Width (in/mm)	18.3/464.8	21.8/553.7
Depth (in/mm), ebox on unit	12.6/320	13.2/337.8
Depth (in/mm), ebox remote	10.8/274.1	13.2/335.3
Gross Weight (lbs/kg)	49/22	61/28
Net Weight (lbs/kg)	41/19	51/23
Height-Electrical Box (in/mm)	9.8/248.9	9.8/248.9
Width-Electrical Box (in/mm)	6.9/175.3	6.9/175.3
Depth-Electrical Box (in/mm)	6.3/160	6.3/160
Recommended Duct Size (in/mm)**	6/152	7/178
Condenser Hose (in/mm)	0.6/16	0.6/16

*In cool mode at 85° F water.
**Duct size may change based on BTU load requirements.

Key Features & Benefits

- Direct 48VDC input
- R454B Low GWP refrigerant
- Variable capacity compressor
- Titanium condenser coil
- BLDC high velocity rotatable blower
- Reverse cycle heat
- Composite positive flow condensate pan
- Standard sound cover
- No starting amperage
- Built in network hardware NEMA2000
- Electric box can be remote mounted
- CE compliant

GVTX Dimensions



INDEPENDENT CONTROL FOR PERSONAL COMFORT!

Our advanced air conditioning system is designed to adapt to your lifestyle with intelligent features that prioritize efficiency, tranquility, and control. Whether you're looking to reduce energy consumption with Eco Mode, enjoy a peaceful environment with Quiet Mode, customize your comfort with Scheduling, or fine-tune temperatures across different areas with Zoning, this system puts you in command of your climate—effortlessly.

ECO Mode

Operational capacity is critical when boats are powered by small generators, unreliable shore power, or batteries. To help extend running time and limit power usage, the GVTX offers ECO mode. When enabled, ECO mode limits the maximum power used by the unit. This results in a significant reduction in required current and an increase in energy efficiency. By reducing the unit's maximum capacity, customers can enjoy extended comfort throughout their boat.

ECO mode can be enabled and adjusted through the Functions screen via a simple interface. The mode is indicated on the main screen by a leaf symbol.

QUIET Mode

A good night's rest is important, especially when you are on your boat. The GVTX allows users to enable sleep mode to limit the maximum speed of the fan, reducing disturbances during the night. Sleep mode ensures the fan runs consistently, unlike the on/off cycling of traditional air conditioning systems. If the GVTX is overly restricted in sleep mode, the unit will bypass this mode to bring your space back to a comfortable temperature.

QUIET mode can be enabled and adjusted through the Functions screen via a simple interface. The mode is indicated on the main screen by a leaf symbol. While in sleep mode the unit's low power consumption allows it to be powered by a lithium-Ion battery and AC inverter.

Scheduling

It can be frustrating to constantly adjust your thermostat throughout the day. Why waste energy cooling or heating your stateroom when you only enter the room at night? With the GVTX scheduling system, you can time temperature adjustments to match your needs, saving both time and energy. The scheduling feature also allows customers to set ECO and SLEEP modes and select specific days of the week.

Zoning

Using multiple units to cool the same space is common in the boating industry, as it provides flexibility and redundancy for the cooled zone. The GVTX supports zoning over the NEMA 2000 network, enabling control of multiple units with a single display. This feature reduces the number of displays on board and provides a clean, unified interface for controlling the zone. Once units are connected via the NEMA 2000 network, the zones can be easily found and selected through the Parameters menu.