

CLIMATE

VARIABLE CAPACITY CHILLERS

The VARCX chiller automatically matches its capacity to the thermal load of your vessel. This maximizes the system's efficiency and reduces electrical load fluctuations on your generator, allowing you to both maximize your boat's electrical efficiency and maintain a constant temperature in the chiller system's water loop. The VARCX series is available in four different capacity ranges.

VARIABLE CAPACITY
OUTPUT MATCHES DEMAND

STEADY OPERATION
MAXIMUM EFFICIENCY

CONDENSER COIL
IMPERVIOUS TO WEAR



208-230V/50/60Hz
380V/50Hz
460V/60Hz



12,000 - 120,000 BTU

Mobile living made easy.

DOMETIC OUTDOOR

MAXIMIZE EFFICIENCY & REDUCE LOAD FLUCTUATIONS

Maximize chiller efficiency and reduce electrical load fluctuations with the innovative Variable Capacity Chiller (VARCX) that modulates compressor speed to precisely match demand. Its robust titanium condensing coil, impervious to erosion and corrosion, extends the life of the unit. Its Electronic Expansion Valve provides more precise control of superheat.

Key Benefits

- Variable capacity increases or decreases output as the BTU load changes to maintain a constant temperature
- Harmonics are significantly reduced to promote a cleaner sine wave
- Ramp start avoids large inrush current
- Titanium condensing coil extends system life
- Operates steadily at lower speeds to provide maximum efficiency
- Electronic expansion valve provides precise control of superheat
- Econo Mode limits maximum power requirement
- Load shedding assists in power management
- Compact footprint saves space in engine room

Special Options

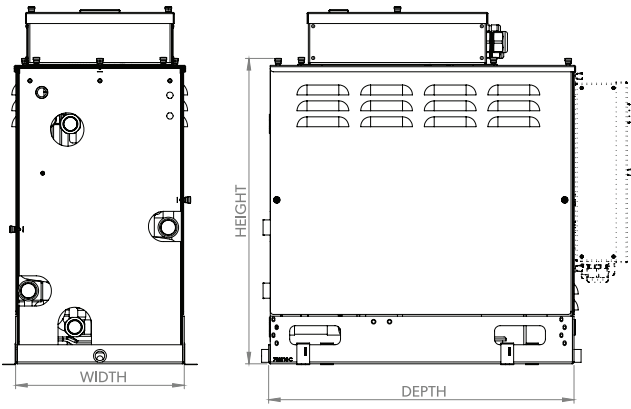
- Interactive high-resolution 7" / 178mm graphical touchscreen display provides a dynamic interface and improved system metrics and control
- Dometic STIIC software provides interactive management via smart phone, tablet, or computer
- VARCX can be manufactured to include up to 6 stages with manifolds and base



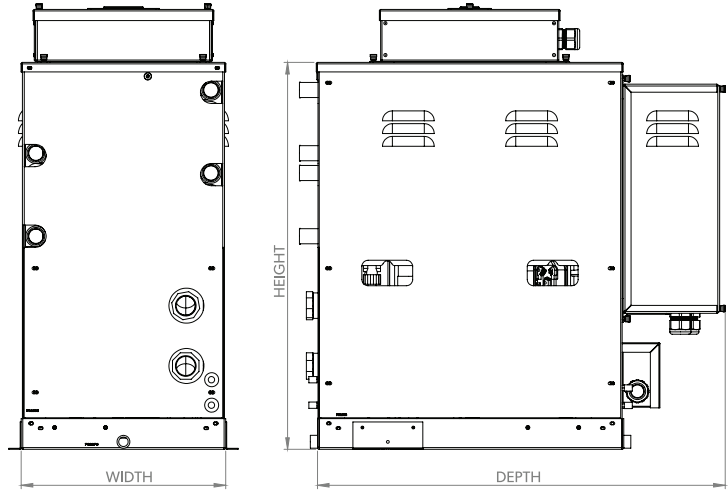
| Model | VARCX48 | VARCX60 | VARCX72 | VARCX120 | | |
|---|---------------|---------------|---------------|------------------|----------------|----------------|
| Capacity (BTU) | 12,000-48,000 | 15,000-60,000 | 18,000-72,000 | 30,000 - 120,000 | | |
| Voltage (V) | 208-230 | 208-230 | 208-230 | 230 | 230 | 380-460 |
| Cycle (Hz) | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Phase (Ph) | 1 | 1 | 1 | 1 | 3 | 3 |
| Full Load Amps (FLA) Cool | 15.9 | 21.0** | 28.0** | 50** | 40** | 22.3/18.4 |
| Full Load Amps (FLA) Heat | 17.0 | 21.0 | 28.0** | 50** | 40** | 27.5/22.7 |
| Refrigerant | 410A | 410A | 410A | 410A | 410A | 410A |
| Seawater Connection OD Tube FPT (in/mm) | 1.0 / 25 | 1.25 / 32 | 1.25 / 32 | *(2x)1.25 / 32 | *(2x)1.25 / 32 | *(2x)1.25 / 32 |
| Chilled Water Connection FPT (in/mm) | 1.0 / 25 | 1.0 / 25 | 1.0 / 25 | 1.5 / 38 | 1.5 / 38 | 1.5 / 38 |
| Drain Connection (in/mm) | 0.5 / 13 | 0.5 / 13 | 0.5 / 13 | 0.5 / 13 | 0.5 / 13 | 0.5 / 13 |
| Net Weight (lbs/kg) | 108 / 49 | 172 / 78 | 190 / 86 | 315 / 143 | 315 / 143 | 315 / 143 |
| Gross Weight (lbs/kg) | 194 / 88 | 236 / 107 | 260 / 118 | 435 / 197 | 435 / 197 | 435 / 197 |
| Height (in/mm) | 19.7 / 501 | 24.0 / 610 | 24.0 / 610 | 30.4 / 772 | 30.4 / 772 | 30.4 / 772 |
| Width (in/mm) | 13.0 / 330 | 13.3 / 338 | 13.3 / 338 | 16.1in / 409 | 16.1in / 409 | 16.1in / 409 |
| Depth (in/mm) | 19.7 / 500 | 24.0 / 610 | 24.0 / 610 | 32.0 / 813 | 32.0 / 813 | 32.0 / 813 |
| Height-Electrical Box (in/mm) | N/A | 14.2 / 361 | 14.2 / 361 | 14.2 / 361 | 14.2 / 361 | 14.2 / 361 |
| Width-Electrical Box (in/mm) | N/A | 11.7 / 298 | 11.7 / 298 | 14.2 / 361 | 14.2 / 361 | 14.2 / 361 |
| Depth-Electrical Box (in/mm) | N/A | 4.1 / 105 | 4.1 / 105 | 4.1 / 106 | 4.1 / 106 | 4.1 / 106 |

* VARCX120 Seawater Connection has two inlets and two outlets at 1.25in/32mm.

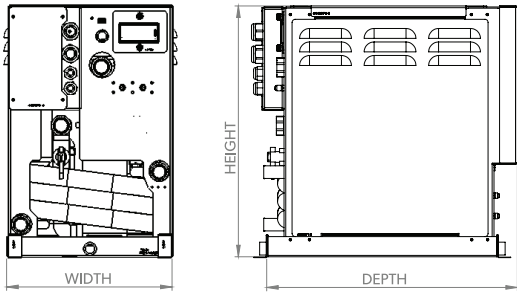
** Maximum VFD input current shown. Actual operating amperages are normally lower



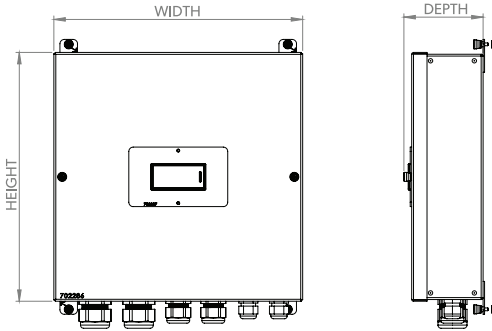
VARC60/72



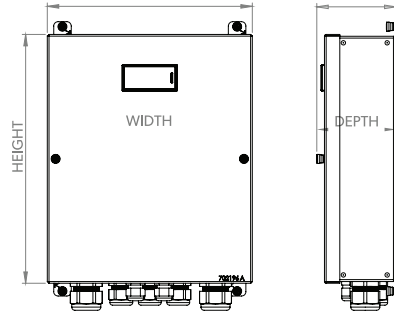
VARCX120



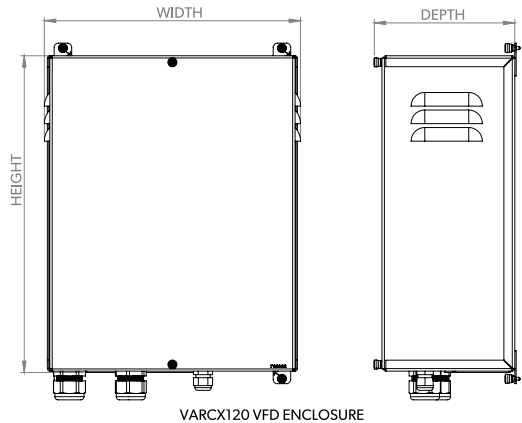
VARCX48



VARCX120 ELECTRICAL BOX



VARCX60/72 ELECTRICAL BOX



VARCX120 VFD ENCLOSURE

MAXIMIZE EFFICIENCY & REDUCE LOAD FLUCTUATIONS

VARCX48

Electrical connections are built in; no separate electrical box



VARCX60, 72, 120

Remote electrical box can be mounted on top or on back of unit, or on a bulkhead for easy access



1. Durable Condenser Coil



2. Convenient Service Access



3. Digital Status/Input Display



4. Integrated Handles

(not available on VARCX48)