

Elite™ Cabin Control

Keypad/Display With Networking Capability



The Elite™ keypad/display is a microprocessor-based controller designed for the precise control and monitoring of split and self-contained direct expansion boat air conditioning systems from Marine Air. The control can also be used with chilled-water air handlers and is called the AH-Elite in that application. The control operates at 115 or 230 volts, each operable at 50 or 60 cycles.

The Elite keypad/display has a sleek, modern Euro design. It features a raised buttons for easy access and control. The Mode button is used to scroll through the four modes of operation, simplifying programming. Decorative snap-on Vimar® bezels are available in a variety of colors and materials to match your vessel's interior. The original Elite display, available in grey or white, supports the Vimar Idea line of bezels. A new, second variety of Elite display is now available in grey only that supports the Vimar Eikon line of bezels.

The Elite display operates with the new Passport® I/O circuit board that utilizes state-of-the-art SMT technology. The Passport® I/O circuit board has an optional integrated CAN-bus network adapter that provides ship-wide network monitoring of multiple DX systems and air handlers. The adapter adheres to CAN-bus Standard 2.0B and is fully ISO compliant. It is available in two high-level CAN-bus communication protocols to support connection to several popular helm and cabin touchscreen control systems.

The Elite display is flash programmable, which allows for future software upgrades without the need to replace the circuit board. A ground shield protects against static interference and RF noise, and the circuit board is conformally coated to provide high resistance to external damage or corrosion. A display cable with modular jacks connects the panel to the system controller. Non-volatile memory stores all user-selectable parameters indefinitely during operation and through any power-failure situations.

The Elite control meets or exceeds applicable ABYC, U.S. Coast Guard Regulations and CE Directives.



Elite keypad/display shown above with Vimar Idea bezel; at top of page with Vimar Eikon bezel.
ISO 9001:2008

Key Benefits

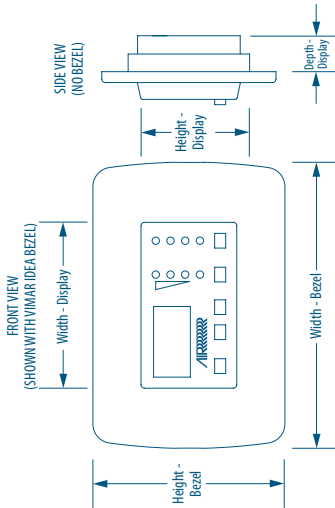
- Automatic humidity control reduces moisture when the boat is unattended.
- Cool-only, heat-only, dehumidify, and automatic mode selection.
- New optional electric-heat relay.
- Optional CAN bus adapter puts cabin control on the ship-wide network.
- Displays Fahrenheit and Celsius.
- Automatic or manual fan-speed selection.
- Cycle fan with compressor or continuous fan operation.
- Cycle pump with compressor or continuous pump operation.
- Compressor time delay staging for multiple unit applications.
- Dimmable display.
- Controls shaded pole and split capacitor fan motors.
- Compressor fail-safe protection.
- Programmable de-icing cycle.
- Built-in air sensor.
- Optional remote air sensor.
- Available with popular Vimar bezels, including the Eikon (sold separately).

Specifications for Elite™ Cabin Control

Model	ELITE (VIMAR IDEA BEZEL)	ELITE (VIMAR EIKON BEZEL)
Voltage (V)	115/230	115/230
Cycle (Hz)	50/60	50/60
Compressor Output (V) ⁽¹⁾⁽²⁾	40	40
R.V. Output (V) ⁽³⁾	0.25	0.25
Fan Output (V)	6	6
Heater Output (V)	30/20	30/20
Pump Output (hp/kW) ⁽²⁾	1/4 /0.21/1/2 /0.4	1/4 /0.21/1/2 /0.4
Set Point Temp. Range (°F/°C)	65-85/18.4-29.5	65-85/18.4-29.5
Display Temp. Range (°F/°C)	5-150/-15-65.6	5-150/-15-65.6
Air Sensor Temp. Range (°F/°C)	5-150/-15-65.6	5-150/-15-65.6
Sensor Accuracy (°F/°C)	2/77/-16.7/25	2/77/-16.7/25
Water Inlet Sensor Cable Length (AH-Elite) (ft/m)	7/3	7/3
Water Inlet Sensor Cable Length (AH-Elite) (ft/m) ⁽⁴⁾	10/3.1-75/22.9	10/3.1-75/22.9
Optional Alternate/Remote Air Cable Length (ft/m) ⁽⁴⁾	7-60/2.2-18.3	7-60/2.2-18.3
Optional Outside Air Sensor Cable Length (ft/m) ⁽⁴⁾	7-50/2.2-15.3	7-50/2.2-15.3
Optional Pump Sentry Cable Length (ft/m)	7-60/2.2-18.3	7-60/2.2-18.3
Water Inlet Sensor Cable Length (AH-Elite) (ft/m)	7-60/3-19	7-60/3-19
Height (in/mm)	2.96/76	2.88/74
Width (in/mm)	4.41/113	4.45/114
Depth (in/mm)	1.08/28	1.05/27
Panel Cut-Out Height (in/mm)	2.19/56	1.88/48
Panel Cut-Out Width (in/mm)	3.31/85	2.75/70
Bezel Height (in/mm) ⁽⁵⁾	2.96/76	3.31/85
Bezel Width (in/mm)	4.41/113	4.69/120

1 Maximum loads should not exceed 85% of listed output ratings.
 2 Does not apply to AH-Elite.
 3 Used as water valve output in AH-Elite mode.
 4 Maximum length is 7.5 ft. (23 m).
 5 Bezels sold separately; dimensions may vary depending on style.

Dimensions



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INTERNATIONAL SALES & SERVICES

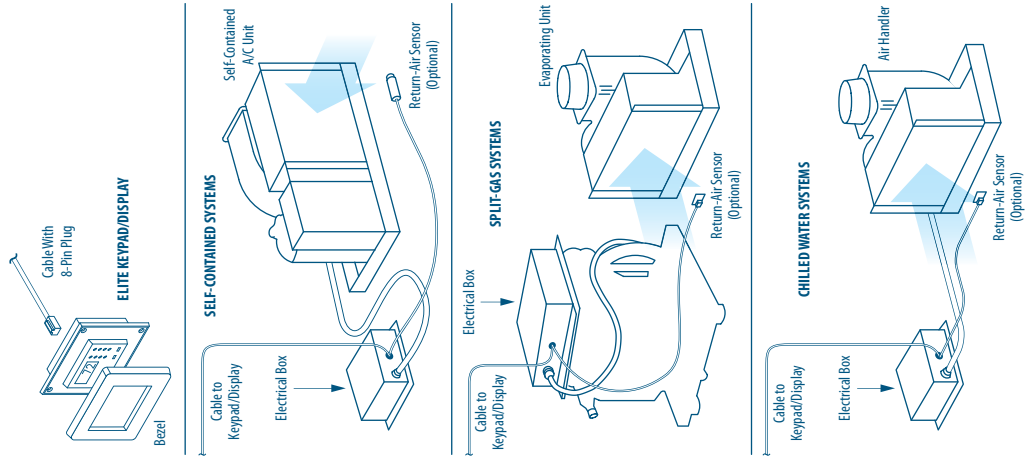
Europe & the Middle East: Call +44(0)870-330-6101
 For all other areas visit our website to find your nearest distributor.

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Specifications and availability subject to change without notice.



Installation



Dealer