

Elite Keypad/Display

Ship-Wide Network Capable

Now Supports
Vimar Eikon



Elite keypad/display
with Vimar Eikon bezel

The Elite™ keypad/display is a microprocessor-based controller designed for the precise monitoring of split and self-contained direct expansion air conditioning systems in marine environments.

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.



Elite keypad/display
with Vimar Idea bezel

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

Key Benefits

- Automatic humidity control — reduces moisture when the boat is unattended.
- Cool-only, heat-only, dehumidify, or automatic mode selection.
- New optional electric-heat relay.
- Ship-wide network capable.
- Displays Fahrenheit or Celsius.
- Automatic or three manual fan speeds.
- 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 lights.
- Controls shaded pole and split capacitor fan motors.
- Compressor fail-safe protection.
- Programmable de-icing cycle.
- Built in air sensor (optional remote sensor).
- Available with popular Vimar bezel styles (sold separately).

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.

Technical Specifications

Voltage (VAC)	115	230
Cycle (Hz)	50/60	50/60
Phase (ø)	1	1
Circuits⁽¹⁾		
Compressor Output ⁽²⁾	40A	40A
Locked Rotor Amps (LRA)	80A	80A
R.V. Output ⁽³⁾	¼A	¼A
Fan Output	6A	6A
Heater Output	30A	20A
Pump Output ⁽²⁾	¼ HP	¼ HP
Set Point Temperature Range	65 to 85 / 18 to 29	
Display Temperature Range	5 to 150 / -15 to 66	
Air Sensor Temperature Range	5 to 150 / -15 to 66	
Sensor Accuracy	±2°F at 77°F / ±1.1°C at 25°C	
Cables Included⁽⁴⁾		
Water Inlet Sensor ft./m.	7.00/2.1 cable included with some AH-Elite kits	
Other Cables Available ⁽⁴⁾	Most cables available in 5 ft. (1.5 m.) increments	
Display ft./m.	10 - 75/3.0 - 22.9 (typically 15 ft./4.6 m.)	
Alternate/Remote Air (optional)	7 - 60/2.1 - 18.3	
Outside Air Sensor (optional)	7 - 50/2.1 - 15.2	
Pump Sentry (optional)	7 - 60/2.1 - 18.3	
Water Inlet Sensor (AH-Elite)	7 - 60/2.1 - 18.3	

Dimensions

Bezel Type	Vimar Idea	Vimar Eikon
Elite Display Dimensions (in/mm)		
Height	2.96/75	2.88/73
Width	4.41/112	4.45/113
Depth	1.08/27	1.05/27
Panel Cut-Out Dimensions (in/mm)		
Height	2.19/56	1.88/48
Width	3.31/84	2.75/70
Bezel Dimensions (in/mm)⁽⁵⁾		
Height	3.25/83	3.31/84
Width	4.85/123	4.69/119

Notes:

⁽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 for display and air sensor cables is 75 ft. (22.9 m.). Maximum length for water inlet sensor cable is 75 ft. (22.9 m.).

⁽⁵⁾ Bezels sold separately. Dimensions may vary depending on style.

DOMETIC MARINE DIVISION

2000 N. Andrews Ave. Ext. I Pompano Beach, FL 33069 USA | 954-973-2477 | Fax 954-979-4414
www.DometicUSA.com | MarineSales@DometicUSA.com

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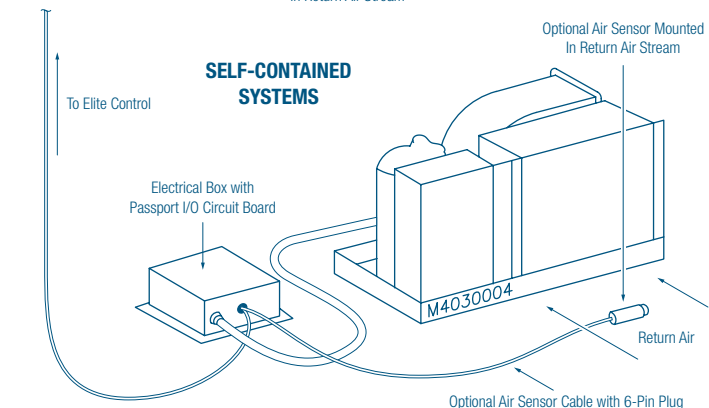
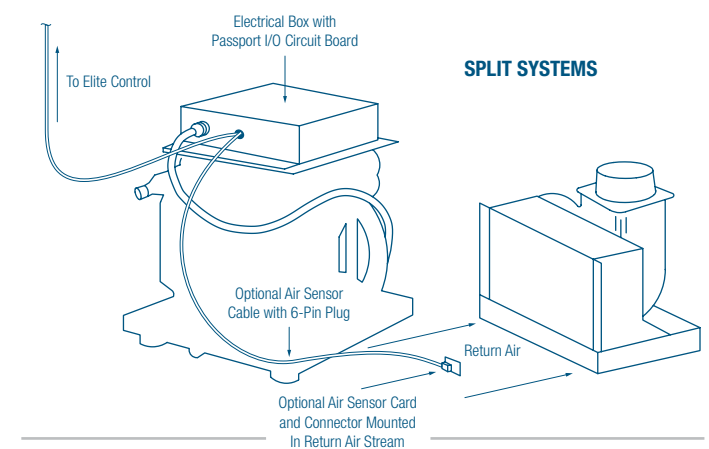
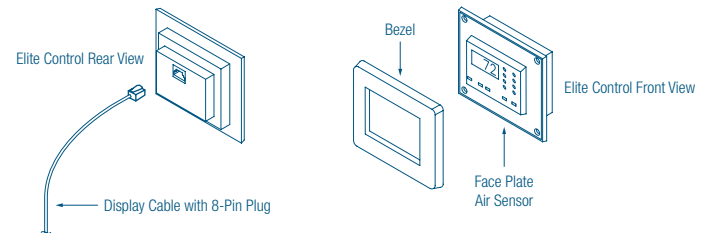
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