

Ship-Wide  
Network Capable

# Q-Logic Controls for DX & TW

## Qht & Q3 Keypad/Display



Qht display with  
Vimar® bezel shown



**The Cruisair® Q-Logic Control System is designed for use with both Direct Expansion (DX) and Tempered Water (TW) air conditioning systems.** This dual microprocessor-based control consists of a new power/logic circuit board in the system's electrical box that operates with Qht and Q3 displays.

An optional CAN-bus network adapter is available for new Q-Logic systems and as a retrofit for existing installations. Supporting both the Qht and the Q3 controls, this adapter provides ship-wide network monitoring and controlling of multiple DX systems or air handlers. The CAN-bus adapter adheres to CAN-bus Standard 2.0B and is fully ISO compliant. It is available in two CAN-bus communication protocols to support connection to several popular helm and cabin touchscreen control systems.

The **Qht** high technology display is European in style, fits into an assortment of decorative bezels, has many new features, and is designed for user-friendly, logical operation. The Qht display features raised buttons for easy access and control and an attractive blue backlit LCD.

The **Q3** display is rectangular with a bezel look and LED display window. Designed as an economical version of the Qht, the Q3 features a sturdy, smooth, black plastic case with attractive white lettering, and raised buttons for easy access. Like the Qht, the Q3 was developed for user-friendly, logical operation.

The Qht and Q3 are compatible only with Q-Logic boards and are not backward compatible with SMX II systems. Both displays have three levels of brightness and a programmable sleep mode in which the display dims automatically when not in use.

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### Key Benefits

- Easier menu-based programming.
- Smarter error/fault codes.
- Timed setting for air filter replacement.
- Automatic dehumidification.
- Optional humidity sensor to monitor and control relative humidity.
- Optional outside-temperature sensor.
- Optional electric heat package.
- Better serviceability with separate off-board compressor triac.
- Inside temperature sensor and display cable are identical to SMX platform.
- Optional CAN-bus network adapter for monitoring and controlling multiple DX systems or TW air handlers.
- Q3 has a small surface-mount display with a simple four-button interface.
- The Qht supports both Vimar® Idea or Gewiss® Playbus Euro-style bezels in a wide variety of colors.
- The Qht's elegant, panel-mount design can be installed in the same cutout as the SMX II SMXht, however it must be operated by a Q-Logic board.

**A dehumidification mode** operates the system on a timed basis so the boat stays ventilated and dry even when no one is aboard (optional electric heat package recommended). For more precise control over relative humidity, install the optional dual-purpose humidity/temperature sensor, then input the relative humidity level you want the system to maintain.

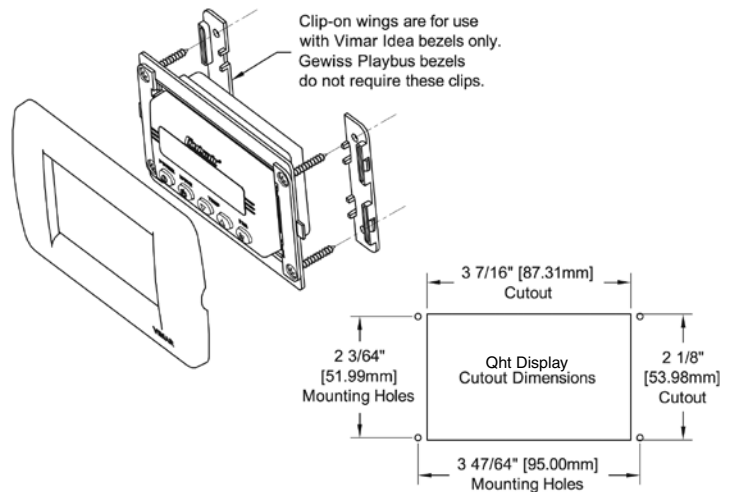
The Qht and Q3 also operate the Aux Heat mode.

Auxiliary heat is standard on TW systems and optional on DX systems. If the optional water-temperature sensor is installed, Q-Logic provides an automatic change-over function from cooling to heating.

Q-Logic Control Systems are offered on Cruisair StowAway Turbo self-contained air conditioners and sold as a retrofit upgrade for existing product installations through the Cruisair dealer network.

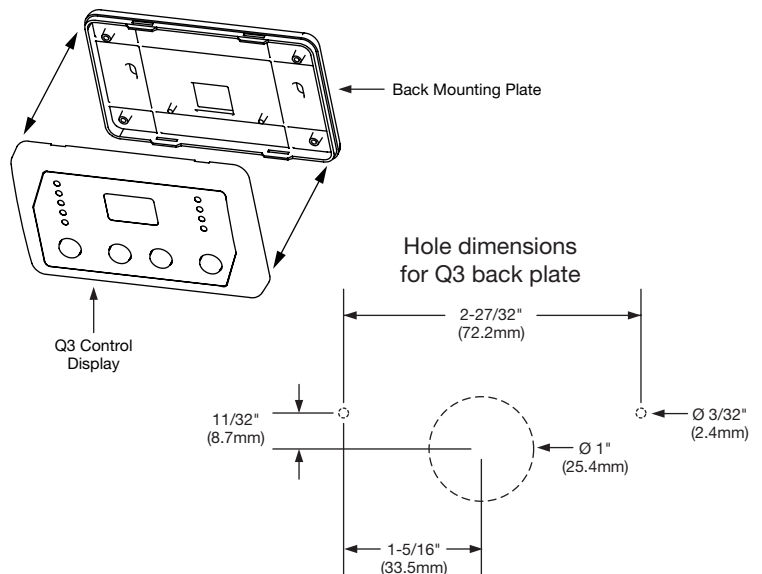
## Specification Details for Qht Display

Model	Qht Display & Bezel
<b>Control Cutout Dimensions (in/mm)</b>	
Height, Mounting Holes	2.05/52.0
Width, Mounting Holes	3.73/95.00
Height, Back of Control	2.13/54.0
Width, Back of Control	3.44/87.3
<b>Control Actual Dimensions (in/mm)</b>	
Height, Back of Control	2.81/71.5
Width, Back of Control	4.39/111.5
Depth, Side of Control, no bezel	0.75/19.0
<b>Vimar Idea Bezel Actual Dimensions (in/mm)</b>	
Height	3.27/83.0
Width	4.84/123.0



## Specification Details for Q3 Display

Model	Q3 Display
Width Between Mounting Holes (in/mm)	2.84/72.1
Hole Size in bulkhead for CXP cable connection (in/mm)	1.00/25.4
<b>Control Actual Dimensions (in/mm)</b>	
Height	2.53/64.2
Width	3.50/89.0
Depth	0.75/19.0



Q3 display for DX shown

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