

New  
Compact  
Design!

# Passport I/O Digital Control

## For DX & Chilled Water AC Systems



Passport I/O digital control shown



**The Passport I/O Environmental Control Units is a microprocessor based controller, designed for the precise monitoring of direct expansion and chilled water air conditioning systems in marine environments.** The control is dual voltage, operating at both 115 and 230 Volts, 50/60 Hz. The display is available in both black and white. In chilled water air handlers, the control is referred to as AH-Passport I/O.

The assembly has a ground shield to protect against static interference and RF noise. The circuit board is conformally coated to provide high resistance to external damage or corrosion.

A display cable with gold plated phone-type modular jacks connects the panel to the system controller. An optional air sensor cable is connected to the circuit board in the same manner. Non-volatile memory stores all user-selectable parameters indefinitely during operation or any power failure situations.

Internal self-diagnostic programs provide complete electronic checks of all lights, sensors, keys and circuits. Fused circuits and M.O.V.s (metal oxide varistors) provide component and board protection.

The Passport I/O control meets or exceeds applicable ABYC, U.S. Coast Guard Regulations and CE Directives.

### Key Benefits

- Automatic humidity control reduces moisture when the boat is unattended.
- Cool only, heat only, or automatic mode selection.
- Temperature displayed in Fahrenheit or Celsius.
- Multiple fan speed selections - automatic or six manual speeds.
- Cycle fan with compressor or continuous fan operation.
- Compressor time delay staging for multiple unit applications.
- Calibration of fan speed settings and temperature display to maintain precise control.
- Blank display lights when desired.
- Controls shaded pole and split capacitor fan motors.
- Compressor fail-safe protection.
- Programmable de-icing cycle.
- Low voltage for optimum safety.
- Built-in air sensor (optional remote sensor).

# Technical Specifications for Passport I/O & AH-Passport I/O Environmental Controls

Voltage (VAC)	115	230
Cycle (Hz)	50/60	50/60
Phase (ø)	1	1
Circuits <sup>(1)</sup>		
Compressor Output <sup>(2)</sup>	40A	40A
Locked Rotor Amps (LRA)	80A	80A
R.V. Output <sup>(3)</sup>	¼A	¼A
Fan Output	6A	6A
Heater Output	30A	20A
Pump Output <sup>(2)</sup>	¼ HP	½ HP
Temperature Ranges °F / °C		
Set Point Temperature	65 to 85 / 18 to 29	
Display Temperature	5 to 150 / -15 to 66	
Air Sensor Temperature	5 to 150 / -15 to 66	
Sensor Accuracy	±2°F at 77°F / ±1.1°C at 25°C	
Display Panel Dimensions (in/mm)	3.19"/81mm W X 2.50"/63.5mm H X 0.94"/23.87mm	
Panel Cut-Out Dimensions (in/mm)	2.50"/63.5mm W X 1.875"/47.63mm	
Cables Included <sup>(4)</sup>		
Display ft/m	VCD & VTD: 15/4.6; CMCD: 10/3.0; CSD: 30/9.1; Chilled Water: 15/4.6	
Water Inlet Sensor ft/m	7/2.1 cable included with some AH-Elite and AH-Passport I/O kits	
Other Cables Available <sup>(5)</sup>	Most cables available in 5' increments	
Display ft/m	10 - 75/3.0 - 22.9	
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-Passport I/O)	7 - 60/2.1 - 18.3	

## Notes:

<sup>(1)</sup> Maximum loads should not exceed 85% of listed output ratings.

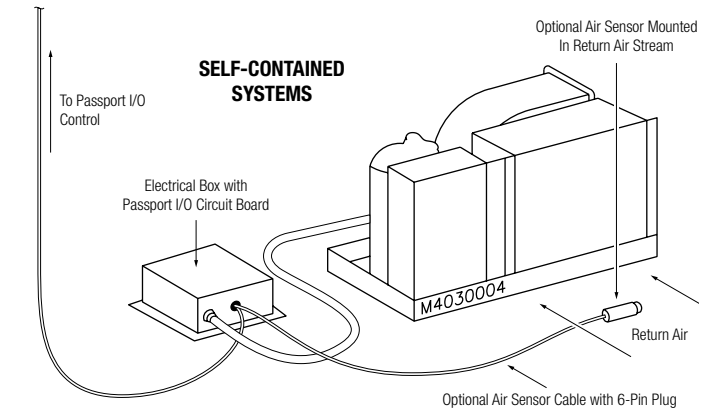
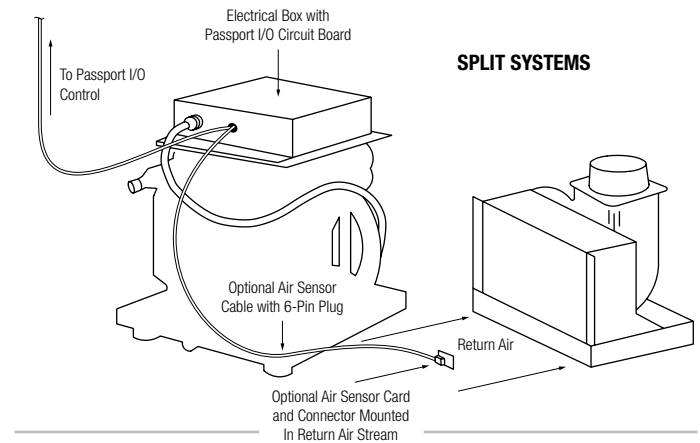
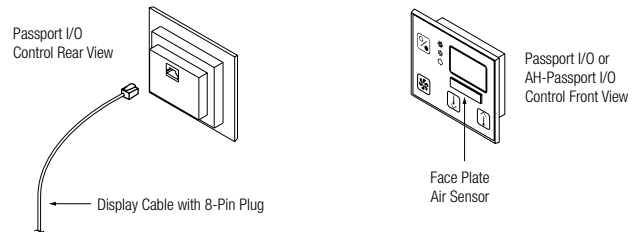
<sup>(2)</sup> Does not apply to AH-Passport I/O.

<sup>(3)</sup> Used as water valve output in AH-Passport I/O mode.

<sup>(4)</sup> Maximum length for display and air sensor cables is 75'. Maximum length for water inlet sensor cable is 75'.

## Key Benefits (continued)

- Universal symbols with tactile switches and embossed power key.
- Cabin temperature is continuously displayed.
- Lexan face plate available in black with cameo graphics.
- The circuit board and display cable are factory installed in the electrical box.
- Display panels can be mounted with adhesive strips, or use screws with the optional, soft bulkhead adapter.
- Easy connections using phone-type modular jacks which are shielded and grounded.



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