

**CHP48-12, Environmental Control System**

**Description:**

The CHP48-12 represents the apex of Environmental Control Units' technology. It is a water system Chiller-Heater Plant, with a 48kBTU Cooling capacity and 12kW Heating capacity designed to be used for chamber internal and external chamber environmental control systems. The CHP48-12 comprises of a cold water circuit and a hot water circuit. For chamber environmental control systems using external Regens the CHP48-12 can supply regen units with the required Cold water and hot water. Control of hot or cold water flow rates is controlled by the Regen Unit temperature control system. For chamber environmental control systems using internal conditioning units, ICUs , in chambers, the CHP48-12 can be used in conjunction with the ECS Control Valve Assembly to provide control of the hot and cold water flow rates to the ICUs. This controls the temperature

and humidity in the chamber.

**Features:**

- 9" touch screen information and control panel
- State of the art human machine interface with data logging functionality
- Manually controllable hot and cold water supply
- 2 x 6kW Electrical heating elements
- Stainless Steel heat exchanger
- Equipped with a 48 000 BTU chiller
- All refrigeration pipework is insulated and protected

**Specifications:**

Length: 1206mm  
 Width: 816mm  
 Height: 1218mm  
 Heating Capacity: 12kW  
 Cooling System: 48000 BTU  
 Flow Rate: 70l/min  
 Electrical Input: 380/440VAC 3Ph, 27A max  
 Seawater Cooling Flow Rate: 45l/min



**Order Detail:**

CHP48-12 Chiller Heater Plant	D-EC-122
ECS Control Valve Assembly	D-EC-122-01
ECS Control Rack, 19" rack mount	D-EC-122-02
Temperature and Humidity Sensor (one required per controlled lock)	D-EC-122-03
Spares for CHP48-12	D-EC-122-04
ICU 300 - Chamber Internal Conditioning Unit	D-HE-39
ICU 200 - Chamber Internal Conditioning Unit	D-HE-38
ICU 200 - HF - Chamber Internal Conditioning Unit - High Flow	D-HE-086

Can be supplied as ABS or DNV Certified. Please specify on order placement  
 See section for Hyperbaric Products for Internal Conditioning Units