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The Kinergetics Chamber Environment Controller (CEC-3), an upgraded version of the popular CEC-2, is ideally suited for the control of heating, cooling and dehumidification of a chamber environment.

The unit features:

- An electrical control panel with two PID controllers that regulate and switch the heating, cooling and de-humidification processes. (Item A)
- A piping manifold assembly with solenoid, check and electrically actuated 3-way valves that govern the flow of fluid through the de-humidification and reheating circuits of a HCU. (Item B)
- A 19 inch rack mountable remote control panel allowing the remote input of set points and providing operator feedback. (Item C)
- A Temperature/Humidity probe. (Item D)

When used in conjunction with a Heater Chiller Skid and Habitat Conditioning Unit, the CEC-3 provides dynamic, refined control of the internal chamber environment through the use of improved control systems.

As there is constant flow of hot and cold fluid through the control manifolds of the CEC-3, two units may be used in series on the same ring main supply depending on the heating or cooling capacity required by a chamber. The design and construction of the CEC-3 allows easy monitoring of the system performance and simplifies maintenance by allowing the removal of the hot or cold circuit manifolds for servicing.

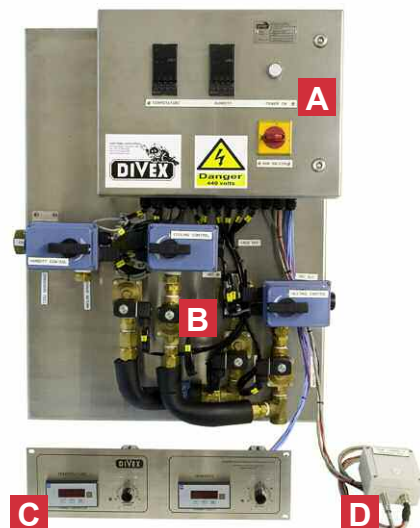
Kinergetics Chamber Environment Controller (CEC-3)

The 19" rack mounted remote control panel enables remote adjustment of both temperature and humidity controller set points as well as providing indication of the actual temperature and humidity inside the chamber via digital displays.

The temperature/humidity transmitter of the CEC-3 has been specifically designed and tested for high pressure environments. The transmitter should be mounted in a convenient position inside the chamber and provides feedback to the temperature and humidity controllers. The output of the transmitter may be connected to the control panel via a 6-wire chamber electrical penetrator suitable for 4-20mA signal transmission.

Recommended Usage

- Temperature control of a chamber environment
- Humidity control of a chamber environment



KI-MDS-561 R0

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Specification

Inputs

Power Requirement	5A, 440V, 60Hz or 380, 50Hz
Control Circuit	24Vdc
Fluid Requirement	Hot and Chilled EC fluid supply

Dimensions

Height	850 mm
Width	650 mm
Depth	335 mm

Connections

Ring Main Supply & Return	1" NPTF
Cooling/Re-heat Coil	3/4" NPTF
Dehumidification Coil	1/2" NPTF



Note

A manual version of the CEC-3 is available for installations requiring a fully analogue operator controlled arrangement. This version excludes temperature and humidity monitoring and control and requires the manual setting of capacity regulation valves and circuit selection.

(Specifications are subject to change without prior notice).

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(CEC-3)**

Order Code KI17056AC