

Eden Compact Range USP's

1. A powerful new cabinet and coldroom controller packed with energy saving and control functionality.
2. The first compact refrigeration controller, with integrated communication connectivity. (wireless, IP, 485)
3. The most versatile compact controller in the market!
4. The first all in one compact refrigeration controller requiring NO additional communication modules. IP, 485 or Wireless on board.
5. The Eden Compact provides as standard 7 temperature / analogue inputs
6. An intuitive refrigeration controller providing excellent usability
7. The Eden Compact provides two part connectors as standard for the wiring of all I/O.
8. Tested and certified to BS EN 60730-1. the most stringent safety standard for this class of product available..
9. The ability to set up the controller through a variety of methods.
10. Designed and manufactured in England.

1. The Eden Compact has such features as a LLV cycle function (appendix 1 in manual) which reduces energy at the pack by closing the case inlet valve if it has been sat in the deadband for longer than the time set at Ti13 within the controllers TIMES menu. Adaptive control of trim heaters is also possible via the use of a zero crossing triac module. This allows the case trims to be modulated according to ambient conditions and actual door temperature. When the controller is used in conjunction with an RCS supervisory system many additional energy efficient features become available such as night blind monitoring / alarming, setback control and parameter management.
2. The RCS Eden controller incorporates communication support within the one enclosure. This is something that other manufacturers have either been unable or unwilling to do. From an OEM perspective what this really means is fewer part codes to worry about, less stockholding of controller parts and simplified commissioning procedures. The Eden controllers can be delivered with Ethernet, RS485 or Wi-Fi communication support.
3. The versatility of the Eden controller is centred around the principle of a single unit inclusive of communication support which will fulfil all common application requirements.
4. See point 2!
5. The Eden Compact supports the standard 5 probe connections, (Air On, Air Off, Evaporator In, Evaporator Out and Defrost Termination,) along with the ability to connect a product probe on the 6th input. The remaining input can be configured to accept different input signals, so that pressure, humidity, pulses etc. can also be read by the controller if required. Particularly useful in CO2 applications or where energy monitoring per case is required.
6. RCS have taken a great deal of time and effort to ensure that the Eden controllers menu structure is simple and easily understood. All related parameter values have been grouped into separate menus, for instance all defrost settings are in the Defrost menu, and all time related parameters such as alarm delays are in the Times menu.

- 7.** A lot of thought went into the selection of connectors for the Eden Compact. Firstly the debate about fixed or two part style. OEM's in particular were adamant that two part connectors were preferable. This allows case manufacturers to get electrical connection looms built and more importantly tested by specialists before being installed into the cabinet and removes any doubt of the final connections into a fixed style connector being made incorrectly.
In addition to this RCS also recognised that sensor wiring could be simplified by providing a dedicated single connection point for each of the standard 6 sensor grounds, as opposed to "doubling up" on what is already a small connector.
- 8.** RCS have paid a 3 party testing house to confirm and subsequently issue certificates to the fact that the Eden controller meets the standard required by EN 60730-1. This is the most stringent standard that can be applied to this type of product and is almost equivalent to the standards applied to white goods.
- 9.** The Eden controller can be configured / commissioned via the use of the front panel buttons and the simple menu system, alternatively once the basic communication parameters have been set up such as IP address / unit address then the same can be achieved from the supervisory system. If values other than the default set of parameters are required to meet a particular specification or application then these can be quickly and easily written and stored for future use by means of a simple to use program to run on a PC. This is available from RCS FOC.
- 10.** N/A