

### Eden Avanta Range USP's

1. A powerful new cabinet and coldroom controller packed with energy saving and control functionality.
2. **DIN rail mounting or screw fixing.**
3. Integral or remote display versions available.
4. **Provides six changeover relay outputs.**
5. An extremely versatile DIN rail mounting controller.
6. **On board RS485, IP or wireless communication support - requiring NO additional modules.**
7. The Eden Avanta provides as standard 7 temperature / analogue inputs
8. **An intuitive refrigeration controller providing excellent usability**
9. The Eden Avanta provides two part connectors as standard for the wiring of all I/O.
10. The ability to set up the controller through a variety of methods.
11. **Designed and manufactured in England.**

1. The Eden Avanta 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 Avanta controller's fixing system allows for fitment on standard DIN rail or alternatively screw fixing. This allows fully flexible options when fitted within gear trays.
3. The Avanta is available with either an integral temperature display and set-up buttons or alternatively a remote display version is available also incorporating set-up buttons which is supplied as standard with a 5 metre lead.
4. The Avanta provides **six** relay outputs to support all common case / coldroom functions without the Compromise of defining these via the set-up menu. All contacts are changeover type. (EEV version has a solid state output). Relays are all rated at 10A.
5. The versatility of the Eden Avanta controller is centred around the principle of a single unit inclusive of communication support which will fulfil all common application requirements
6. 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.

7. 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 6<sup>th</sup> 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.
8. 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.
9. 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.
10. 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.
11. N/A