



Remote Electronic Expansion Valve (REEV)

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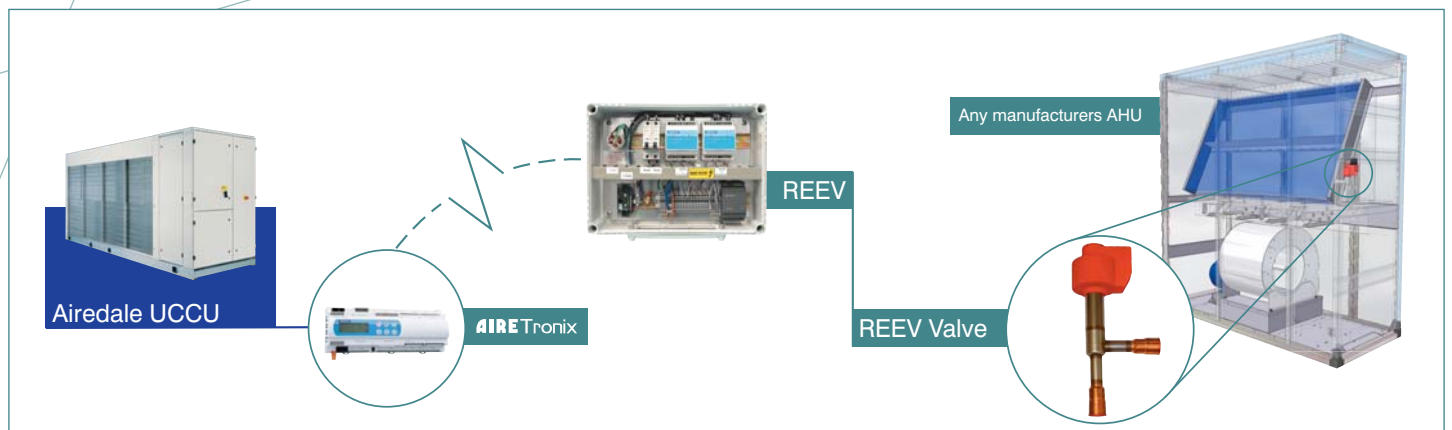
Remote Electronic Expansion Valve (REEV)

Easily applied in commercial, retail or leisure applications, the Remote Electronic Expansion Valve (REEV) brings the efficiency and control of electronic expansion valves to a split system, providing stable and accurate control of the refrigeration system superheat.

REEV enables Airedale's versatile Ultima Compact Condensing Unit (UCCU) range to be matched with any manufacturer's new or existing Air Handling Unit (AHU) in a 1-1 circuit match, regardless of size.

Installation is minimal as the REEV valve is simply installed close to the evaporator, with the compact and unobtrusive REEV control box mounted within 5 metres of the evaporator case.

Based on feedback from pressure and temperature probes installed at the evaporator outlet, the AireTronix microprocessor controller, located in the UCCU, generates the required sequence of operating steps to control the REEV valve motor.



Benefits

See overleaf for more details of:

- > Improved efficiency up to 30%
- > Optimisation
- > Versatility for a greater selection tolerance
- > Remote intelligent configuration, providing ultra stable system operation
- > Reduced cost of installation

Remote Electronic Expansion Valve

(REEV)

Benefits

Improved efficiency

The evaporator performance increases due to the accuracy of refrigerant flow and control of superheat. By fitting the REEV system and reducing the head pressure control setting, an increase in the system Energy Efficiency Ratio (EER) of up to 30% can typically be seen. The Mollier diagram shown (right) helps to illustrate how this increase in efficiency is achieved.

Optimisation

The REEV allows for good refrigeration control whilst operating at part load and lower ambient conditions with a reduced condensing pressure.

Versatility

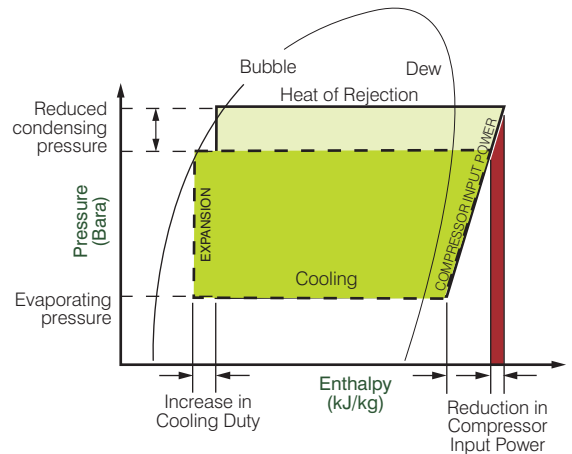
Systems with very different capacities and operating conditions can be managed by the REEV. Its versatility allows for a greater selection tolerance in other manufacturers' systems.

Remote intelligent configuration

As the REEV control box is located remotely to the UCCU and close to the evaporator, cabling is minimised and retrofit and installation simplified.

Reduced cost of installation

The REEV can be applied to any existing air handling unit, saving the labour and material cost of installing a new system.



Part No.	Description
CD-REEV1-E2V30	Single Circuit REEV - E2V30
CD-REEV2-E2V30	Double Circuit REEV - E2V30
CD-REEV1-E2V35	Single Circuit REEV - E2V35
CD-REEV2-E2V35	Double Circuit REEV - E2V35
CD-REEV1-SEI30	Single Circuit REEV - SEI30
CD-REEV2-SEI30	Double Circuit REEV - SEI30
CD-REEV1-SEI50	Single Circuit REEV - SEI50
CD-REEV2-SEI50	Double Circuit REEV - SEI50
CD-REEV1-SEI100	Single Circuit REEV - SEI100
CD-REEV2-SEI100	Double Circuit REEV - SEI100

Range

The equipment can be utilised for any system ranging between 38 - 274kW capacity at 5°C evaporating, 35°C condensing.

To apply the above products to an Airedale UCCU system, contact Airedale on (0113) 239 1000 or controls@airedale.com.

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Airedale reserve the right to change technical details at their discretion and without notice. For further information contact Airedale. ENG-CONTROLS-REEV-08/05