

HEATING | COOLING | VENTILATION

LOCO2

A low carbon option for fan coils designed from a new perspective

LoCO2, a low carbon option available for the Quartz standard fan coil ranges (Sapphire and Amber), introduces a new level of energy efficiency. Designers striving to develop the most energy efficient fan coil systems are, in addition to the use of EC/DC motors, increasingly making use of free cooling (when in cooling mode) and utilising condensing boilers or heat pumps for heating. Quartz have therefore developed a low energy option that makes full use of the new technologies and results in an exceptionally energy efficient climate control system.


Versatile

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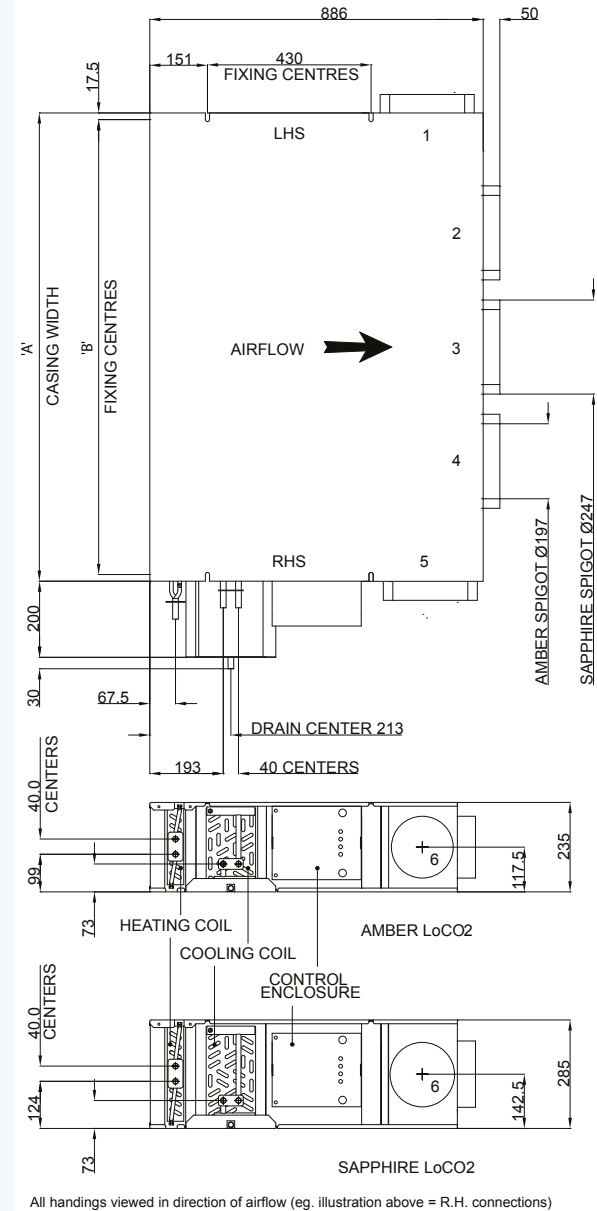
LoCO2 Main Features & Dimensions

The main areas for energy saving are in the use of higher temperature water for cooling (enables free cooling and high chiller efficiency), lower water temperature for heating (enables the use of condensing boilers or heat pumps) and reduction in the use of energy for air movement. The LoCO2 option enables all of these areas to be addressed.

The option has a separate coil for heating designed to maintain typical heating duties whilst utilising low temperature water (typically 50/40°C) and a specialist cooling coil that will maintain cooling duties when operating with (relatively) high temperature cooling water (12/17°C). In addition, the fan coils are fitted with ec\dc motors that, if operated with the Quartz suggested strategy, modulates the fan speed with respect to occupancy there by reducing energy use.

Key Features

- Special, additional heating coil designed to have negligible airflow resistance and to utilise 60/40°C or 50/40°C water for heating.
- Special cooling coil designed for optimum performance using 12/17°C water for cooling.
- EC\DC motor with suggested strategy for optimum fan performance at minimum energy use.
- Frame filter to EU2/3 filtration standard.
- Lower capital cost than chilled beam equivalents.
- Whole life costings that are similar to current best technology.



LoCO2 Model Sapphire / Amber Size								
	1	2	3	4	5	6	7	8
Dim 'A'	630	880	1230	1230	1430	1430	1780	1780
Dim 'B'	595	845	1195	1195	1395	1395	1745	1745
Max. Spigots	3	4	5	5	5	5	6	6

* All dimensions quoted in mm



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