



PuroAire_{Elite} Fan Coil Unit Specification Document

Product: Chilled Water Cassette Fan Coil Unit

Manufacturer: Quartz

1. General Description

The **Quartz PuroAire_{ELITE} Cassette water fan coil unit** is part of a versatile fan coil product range and can be installed in a ceiling grid or in an exposed ceiling space in a wide variety of environments, including commercial buildings, hotels, hospitals, and high-end residential properties. All products offer both cooling and heating capabilities using water and are engineered for quiet operation, energy efficiency, ease of installation and easy integration with building management systems (BMS).

Standard Key features include:

- **High-efficiency EC/DC fan motors** for low energy consumption and high airflow performance.
- **Compact design** offering maximum output and efficiency.
- **Heat Pump Compatible** – High outputs at 10/16°C Chilled water and 45/35°C Hot water.
- **Architectural metal fascia** – 4 way discharge in Standard RAL9016 (other colours available on request)
- **One Piece Injection moulded chassis** – With integral condensate tray.
- **Remote Electrics Box** – House Controls and allow flexible installation on site.
- **Virus Suppression Technology** – Bipolar Ionisation fitted as standard.
- **Washable ‘Lifetime’ Stainless Steel Filter** – Low Resistance / Maximum Efficiency.
- **UK Manufactured to BS EN ISO 9001:2015** - Low Embodied Carbon.

2. Technical Specifications

Parameter	Specification
Model Range	PuroAire _{ELITE} by Quartz – 6 Compact Models
Sensible Cooling Capacity *	0.9kW – 6.2kW
Total Heating Capacity **	1.5kW – 9.3kW
Air Flow Rate	Varies by model (75l/s – 540l/s)
Power Supply	230V / 50Hz / 1Ph
Fan Type	EC/DC motors, double inlet impellers
Speed Control	BMS integrated variable speed / Standalone Wall Control / Fixed
Coil Type	Copper tube with aluminium fins
Filter Type	Stainless Steel Washable High-Performance Filter
Noise Level	Low-noise operation
Drain Tray	Internal Tray Integral to chassis / External ABS or St/Steel
Chassis	Injection molded one piece
Insulation	Class 'O' Acoustic and Thermal insulation
Mounting	Ceiling-mounted with drop rods

* Standard UK Conditions of 6°C CW flow / 12°C CW return, 23°C / 50% RH Air onto FCU, External Resistance 30Pa

** 50°C HW flow 40°C HW return, 20°C Air onto FCU, External Resistance 30Pa

3. Construction Features

- Casing: ABS Injection moulded one piece steel chassis
- Access: Hinged grille to Filter, Internal Electrics, Fan and Impellor
- Condensate Tray: Internal Tray Integral to chassis / External ABS or St/Steel
- Finish: RAL9016 20% Gloss Coating (Other RAL colours optional on request)

4. Controls and Accessories

- Compatible with all Standard BMS Controllers (requires remote electrics box)
- Range of Wall Mounted Standalone Controls
- Comprehensive range of Electrical accessories to support Control Options
- Optional electric heater with Optional Thyristor control
- Compact PICV Commissioning Sets
- Optional ISO 16890 class filters

5. Compliance and Standards

- BSEN ISO 9001:2015 Certified manufacturing
- BS EN ISO 14001:2015 Environmental Management System
- TM65 Mid-Level Embodied Carbon Certificate(s)
- CE marked

6. Warranty

Standard 36-month (3 Year) parts only warranty from dispatch (Optional Extensions available)