



Elite series of Cassette Fan Coils

Engineered for Pure Performance

The next generation Cassette, Engineered for Pure Performance

UK Manufactured by Quartz



Who We Are

Quartz, a division of TEV, has a long pedigree in the HVAC sector supplying product to the UK and European markets for over 50 years. Our new manufacturing plant is ideally located for national distribution, in West Yorkshire. Boasting excellent facilities, customers are welcome to visit the production facility, as well as Quartz's thermal and acoustic testing facilities.

Achieved through close attention to market needs, design detail and material specification, Quartz relies on its strong positioning, industry experience and high volume production to deliver quality products to the market.

Quartz is a brand built by engineers and now this team brings you their next generation of fan coils, PuroAire units not only offer energy efficiency and performance, everyone is fitted with Quartz Shield, our own Bi-Polar Ionisation unit, so the focus is on indoor air quality too.

Our flagship unit the, PuroAire_{Elite}, is a unit intended for the modern world we live in, low energy, architectural and designed to work with heat pumps. Our product can offer a packaged solution to include controls and valves, but can also offer the flexibility to be factory fitted with components that are in line with the rest of the project.

Innovative designs and outstanding build quality mean that your project is in safe hands. Quartz continues to be specified for many prestigious projects, where clients, architects and M&E consultants have chosen Quartz for the quality, performance and features that the products offers.

A MARKET LEADER IN CHILLED WATER PRODUCTS DESIGNED TO MEET ALL APPLICATIONS

Who We Work With

Quartz PuroAire_{Elite} represent the next generation of HVAC solutions, engineered for efficiency, built for reliability, and designed with comfort in mind. Whether for commercial buildings, hospitality, healthcare, or residential environments our Fancoils deliver exceptional indoor climate control with whisper-quiet operation and outstanding energy performance.

Commercial

Leisure

Residential

Transport

Government

Education

Health

Retail

Public

Industrial



THE UNIVERSITY
of EDINBURGH



amazon



PuroAire_{Elite} (2 Sizes available)

The PuroAire_{Elite} range of Fan coils are engineered to complement modern design aesthetics while delivering high-efficiency performance and whisper-quiet comfort. Our units integrate seamlessly into a wide range of architectural environments, from luxury residences and boutique hotels to commercial spaces and institutional buildings.

6 models with
cooling up to
6.2kW

Heat pump
optimised
heating outputs
up to 9.3kW

Optimised heat exchanger
compatible with heat pumps

Quiet Operations

4 Pipe as
Standard

Bi-Polar Quartz
Shield

Sleek, Architectural
Fascia

Stainless steel
washable filter

Simple maintenance cleaning and disinfection, ideal for
medical applications



Key Features



Low Energy & Zero
External Resistance



UK Manufactured – Low
Embodied Carbon



Standard Quartz Shield
Bi-Polar Ionisation



Low Hydraulic Pressures



Standard Lead Time 4
Weeks



Heat Pump Compatible



Long Life Washable
Stainless Steel Filter



One piece chassis – Fresh
air inlet + branch duct
connections available



Valve options available
including fully fitted
Compact PICV



High Performance
EC/DC Fans Producing
Long Air Throws



Architectural fascia with 4-
way discharge available in
standard RAL9016, with
other options upon request.



Easy Install & Maintenance
– Serviceable items
accessible from below

With sleek profiles and compact footprints the PuroAire_{Elite} gives architects the freedom to design without compromise, ensuring our systems enhance rather than interrupt the spatial experience



Performance Output PuroAire 600 & 875 Elite

Standard UK conditions

Model	Speed	Airflow (l/s)	Cooling (kW)		Heating (kW)	Power (W)	SFP (W/l/s)	NR	FLC (A)	SC (A)
			Sensible	Total	Total					
600-45	Whisper	75	0.9	0.9	1.5	2	0.02	20	0.39	1.2
	Low	100	1.1	1.1	1.9	5	0.05	25		
	Low-Med	125	1.4	1.4	2.3	9	0.07	30		
	Med	150	1.6	1.6	2.6	15	0.1	33		
	Med-High	200	2.0	2.0	3.0	32	0.16	40		
	High	250	2.3	2.4	3.4	55	0.22	45		
600-65	Whisper	75	1.0	1.1	1.5	2	0.02	20		
	Low	100	1.3	1.4	1.9	5	0.05	25		
	Low-Med	125	1.7	1.8	2.3	10	0.08	30		
	Med	150	1.9	2.1	2.6	17	0.11	33		
	Med-High	200	2.4	2.6	3.0	36	0.18	40		
	High	250	2.8	3.0	3.4	63	0.25	45		
600-75	Whisper	75	1.1	1.3	2.0	2	0.02	20		
	Low	100	1.4	1.6	2.6	5	0.05	25		
	Low-Med	125	1.7	1.9	3.2	10	0.08	30		
	Med	150	2.1	2.3	3.7	18	0.12	33		
	Med-High	200	2.7	2.9	4.5	38	0.19	40		
	High	250	3.2	3.4	5.2	65	0.26	45		
875-95	Whisper	100	0.9	1.0	1.9	1	0.01	20	0.6	1.8
	Low	140	1.3	1.3	2.6	1	0.01	24		
	Low-Med	200	1.7	1.7	3.4	4	0.02	27		
	Med	300	2.3	2.4	4.5	12	0.04	33		
	Med-High	400	2.8	2.9	5.3	28	0.07	37		
	High	540	3.3	3.4	6.2	59	0.11	43		
875-135	Whisper	100	1.3	1.5	1.9	1	0.01	20		
	Low	140	1.7	1.8	2.6	1	0.01	24		
	Low-Med	200	2.4	2.5	3.4	4	0.02	27		
	Med	300	3.4	3.7	4.5	12	0.04	33		
	Med-High	400	4.3	4.6	5.3	28	0.07	37		
	High	540	5.3	5.6	6.2	65	0.12	43		
875-155	Whisper	100	1.5	1.7	2.6	1	0.01	20		
	Low	140	1.9	2.1	3.5	1	0.01	24		
	Low-Med	200	2.7	2.9	4.6	6	0.03	27		
	Med	300	3.9	4.3	6.4	15	0.05	33		
	Med-High	400	5.0	5.4	7.7	32	0.08	37		
	High	540	6.2	6.7	9.3	76	0.14	43		

Cooling

Entering air temperature = 23°C db / 50%
 Entering water temperature = 6°C
 Leaving water temperature = 12°C

Heating

Entering air temperature = 21°C
 Entering water temperature = 50°C
 Leaving water temperature = 40°C

Performance Output PuroAire 600 & 875 Elite

Standard EUROVENT conditions

Model	Speed	Airflow (l/s)	Cooling (kW)		Heating (kW)	Power (W)	SFP (W/l/s)	NR	FLC (A)	SC (A)
			Sensible	Total	Total					
600-45	Whisper	75	1.2	1.5	1.5	2	0.02	20	0.39	1.2
	Low	100	1.6	2.0	1.9	5	0.05	25		
	Low-Med	125	2.0	2.4	2.3	9	0.07	30		
	Med	150	2.3	2.8	2.6	15	0.1	33		
	Med-High	200	2.9	3.4	3.1	32	0.16	40		
	High	250	3.3	3.9	3.5	55	0.22	45		
600-65	Whisper	75	1.4	1.8	1.5	2	0.02	20		
	Low	100	1.9	2.4	1.9	5	0.05	25		
	Low-Med	125	2.3	3.0	2.3	10	0.08	30		
	Med	150	2.7	3.5	2.6	17	0.11	33		
	Med-High	200	3.3	4.3	3.1	36	0.18	40		
	High	250	3.9	5.0	3.5	63	0.25	45		
600-75	Whisper	75	1.5	2.0	2.0	2	0.02	20		
	Low	100	1.9	2.6	2.6	5	0.05	25		
	Low-Med	125	2.4	3.3	3.1	10	0.08	30		
	Med	150	2.9	3.8	3.6	18	0.12	33		
	Med-High	200	3.7	4.8	4.5	38	0.19	40		
	High	250	4.4	5.7	5.2	65	0.26	45		
875-95	Whisper	100	1.4	1.7	2.0	1	0.01	20	0.6	1.8
	Low	140	1.8	2.3	2.6	1	0.01	24		
	Low-Med	200	2.3	3.0	3.3	4	0.02	27		
	Med	300	3.2	4.0	4.5	12	0.04	33		
	Med-High	400	3.7	4.6	5.3	28	0.07	37		
	High	540	4.4	5.3	6.2	59	0.11	43		
875-135	Whisper	100	1.8	2.3	2.0	1	0.01	20		
	Low	140	2.4	3.2	2.6	1	0.01	24		
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875-155	Whisper	100	1.9	2.6	2.6	1	0.01	20		
	Low	140	2.7	3.6	3.4	1	0.01	24		
	Low-Med	200	3.8	5.0	4.6	6	0.03	27		
	Med	300	5.4	7.1	6.3	15	0.05	33		
	Med-High	400	6.8	8.7	7.7	32	0.08	37		
	High	540	8.5	10.6	9.3	76	0.14	43		

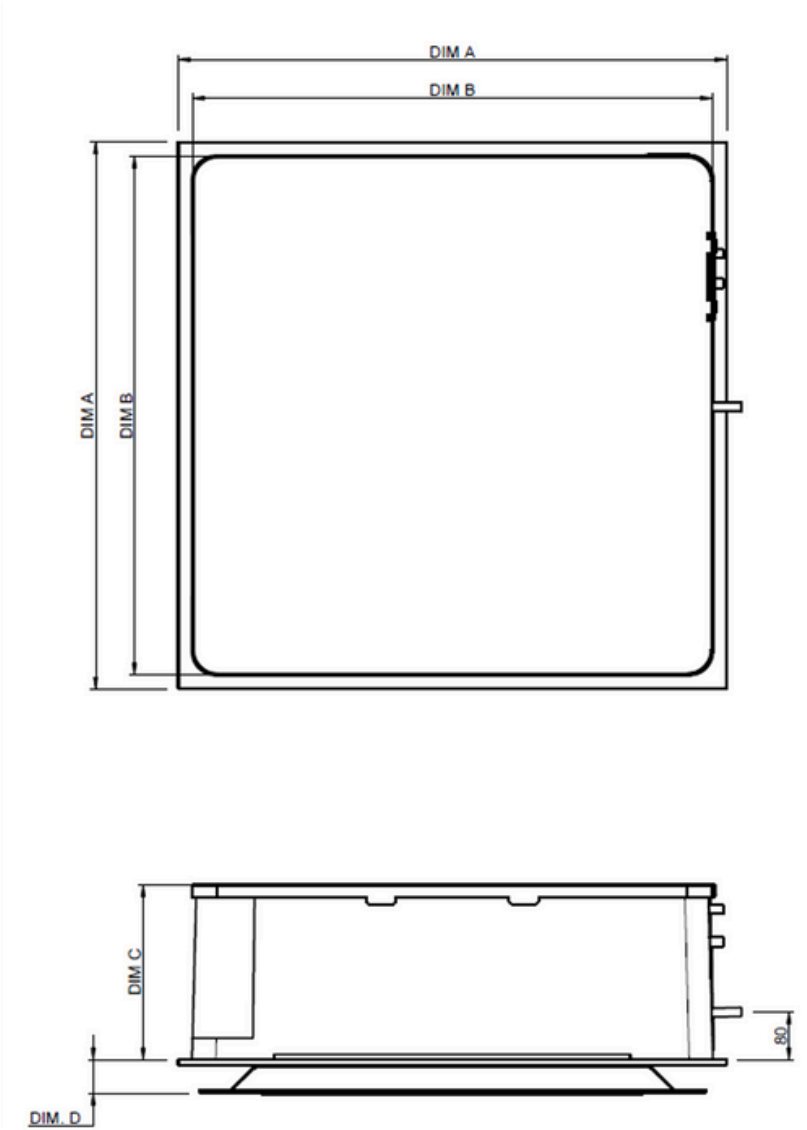
Cooling

Entering air temperature = 27°C db / 19°C wb
 Entering water temperature = 7°C
 Leaving water temperature = 12°C

Heating

Entering air temperature = 20°C
 Entering water temperature = 45°C
 Leaving water temperature = 40°C

Model Dimension

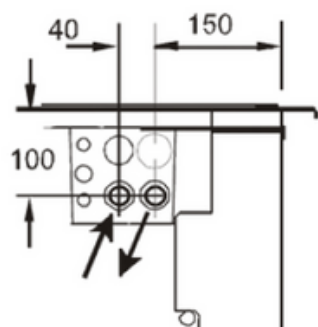
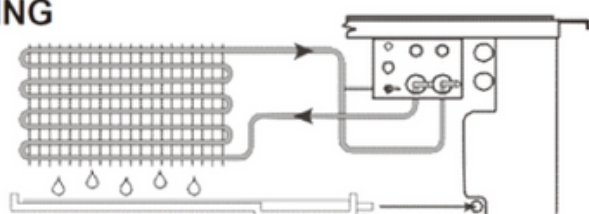


Model	A	B	C	D	Max Weight Kg
PuroAire _{ELITE} 600	622	580	306	40	28
PuroAire _{ELITE} 875	923	880	314	60	46

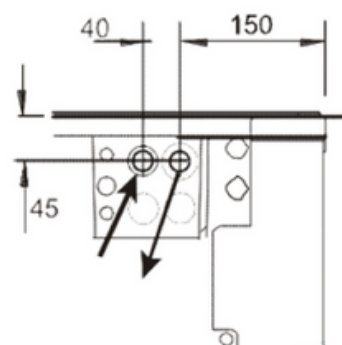
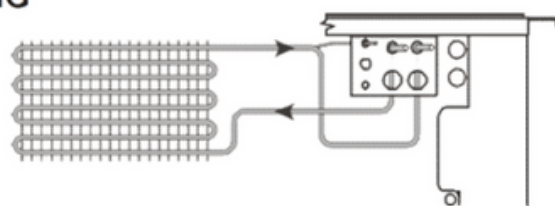
All dimensions in mm
Net weight including Fascia

Hydraulic Connections

COOLING



HEATING



Pipe Sizes (mm)

Model	Cooling	Heating
PuroAire_{ELITE} 600	15	15
PuroAire_{ELITE} 875	22	15

Qualification of NR predictions

N.R. guide figures quoted in the schedule are intended to show the levels which may be expected in a typical office environment.

The room effect is calculated using the Schultz method and the resultant NR calculation requires that the following conditions be met.

- Room sizes are based on a cooling load of 120W/m² with a chilled water flow temperature of 6°C and a return of 12°C
- Rooms should be carpeted, with no more than 20% glazed or highly reflective surfaces
- In open plan areas units should be mounted not less than 6m apart
- Height from the floor to the unit fascia is not less than 2.5m

The foregoing should ensure that the 'guide' NR Levels are met when measured at 2.5m from the nearest unit.

SC-TEC
REFRIGERATION & CLIMATE CONTROL



Multi Compressor Units

Semi Hermetic, Scroll, Digital and inverter compressor options available.



Multi compressor condensing units and compressor packs up to
• 350kW at -10°C/32°C
• 150kW at -30°C/32°C

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MARSTAIR
REFRIGERATION AND SPECIALTY AIR CONDITIONING



What We Do

Systems for:

- Waste storage
- Wine cellars
- Beer cellars
- Low temperature air conditioning
- Close control



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QUARTZ
FAN COILS AND FANS



Chilled Water Fan Coil Units

Applications Include:

- Commercial
- Leisure
- Residential
- Education
- Health
- Retail
- Public
- Transport
- Government
- Industrial



www.quartz.co.uk

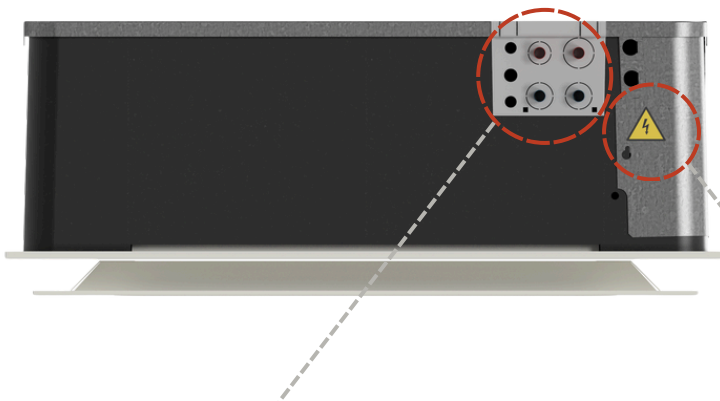
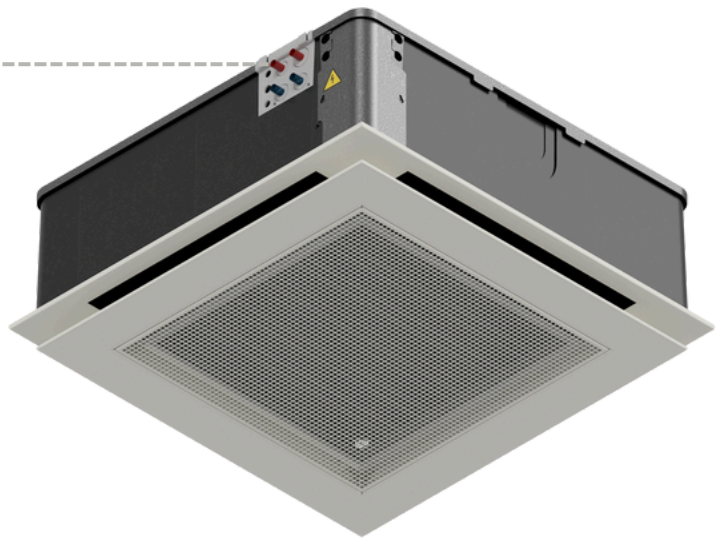
Our Environmental and Acoustic purpose built test facilities ensure our products are designed and optimised for the next generation building



Access Requirements

Recommended access requirements needed for PuroAire_{Elite} Cassettes

600mm x 600mm minimum
access on all size units



Access will be needed to maintain
any valves and actuators

Access will be needed for any
electrical / control connections



Maintenance

All maintenance checks should be carried out in accordance with SFG20

Inspection	3 Months	6 Months	12 Months
Visually inspect unit for damage, corrosion, and firmness of fixings		X	
Ensure condensate pump is operational and able to discharge condensate to the drainage pipework. If gravity fed must also check correct fall to allow full drainage		X	
Permanent filters to be cleaned and retrofitted. In a very dirty atmosphere, the filters will need cleaning more regularly	X	X	
Disposable filters to be withdraw and clean (or replace if necessary) filter media from dirty side with vacuum cleaner	X	X	
Check airflow is normal at correct speed setting, check unit operates without undue noise or vibration and check operation of controller		X	
CHW/HW control valves. Check operation and check that any connections including flexible hoses are in good condition (if fitted)		X	
Cooling/Heating heat exchanger should be checked for leaks and cleaned by applying a jet of air to the leaving face. All connections headers, air vents and drains should be checked			X
If strainers are fitted to control valves of FCU these should be checked, cleaned, seals checked and replaced if necessary			X
Check the fan blades/housings and clean, if necessary, with a soft brush or vacuum- check for shaft lift and clean interior of unit in fan section and discharge section			X
Electrical connections in enclosure are to be checked for tightness, visually inspect cable insulation. Check operation of thermostats if necessary. Earth Continuity and Insulation resistance should also be checked			X
Wall thermostats should be checked to ensure they operate when moved			X

X – Should be 3-month interval if in a dirty atmosphere

Quartz Shield

Built in Virus Protection



Quartz SHIELD now provides the solution by significantly improving indoor air quality (IAQ) in buildings through a wide range of product innovations.

- Inhibits the transmission of viruses
- Inhibits the growth of bacteria, mould and allergens
- Kills pollutants within the room
- Oxidises odorous gasses
- Balances static electricity
- Superior performance over air filtration systems
- Reduction of cleaning chemical use
- Safeguarding employees in the workplace
- Promoting well-being to employees
- Reduced sick pay and loss of resource
- Reduced cleaning costs
- Can be retro-fitted to existing installer fan coils

Employer confidence in protecting the workforce in the workplace has never been more important.

The capability to destroy viruses, bacteria and mould, can now be realised through the widespread deployment of 'Bipolar ionisation' technology.



**Total peace of mind, built in
Britain, built to last.**



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Continued Professional Development



Fan Coils

- Air Conditioning and Fan Coil Units
- Types of Fan Coil Units
- F Gas Regulations
- Design Parameters



Acoustics

- Sound Pressure vs Sound Power
- NR Qualifications
- Acoustic Measurements
- Absorption



Quartz Shield

- What is Quartz Shield
- How does it work
- Testing and Results
- Case Studies

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For more details or to book a CPD

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