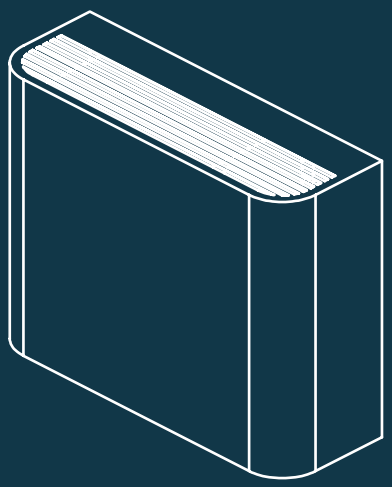
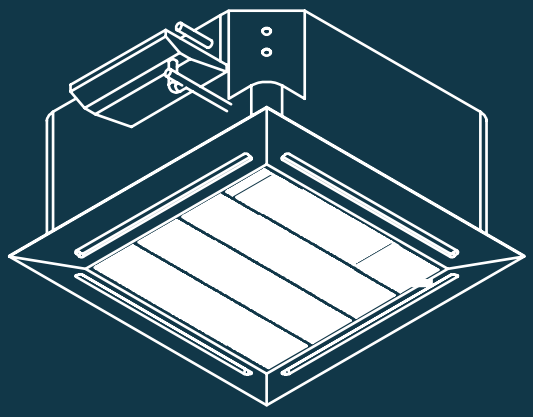
QUARTZ

FAN COILS AND HVAC

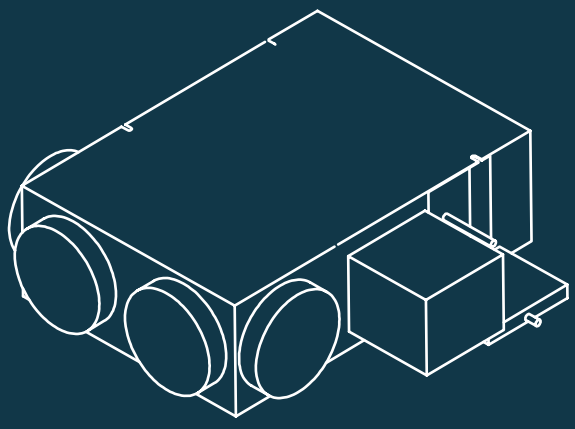






fan coils & hvac

Technical Brochure



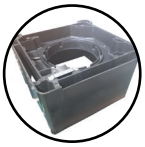
QUARTZ 5 Year PARTS WARRANTY AS STANDARD

DESIGNED & MADE IN THE UK

In partnership with

MARSTAIR

REFRIGERATION AND SPECIALIST AIR CONDITIONING



Chassis

• Removable lightweight one-piece chassis with integrated drip tray, for ease of installation, maintenance and cleaning on site.



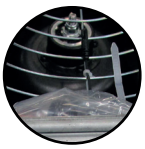
Fascia

• Modern, slim, square fascia with rounded corners
• Standard colour RAL9001(colour variation to suit project requirements)
• 4 Way Air discharge - foam blanking kits
• Adjustable vanes. Fresh air inlet & Branch duct options available



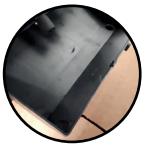
Access

• Access to the fan/motors and coil from below.
• Valve/actuator access from the side
• Remote electrics box available to house controls



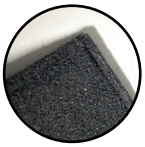
Motors/ Fans

• EC/DC motors as standard.
• AC Motors only available on CWC 600/ CWC(H) 600
• long air flows making use of ‘coanda’ effect.
• Fan finger guard for safety



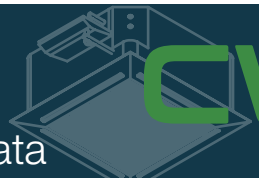
Condensate Tray

• Integral easy clean drain tray (part of chassis)
• External ABS Drip tray

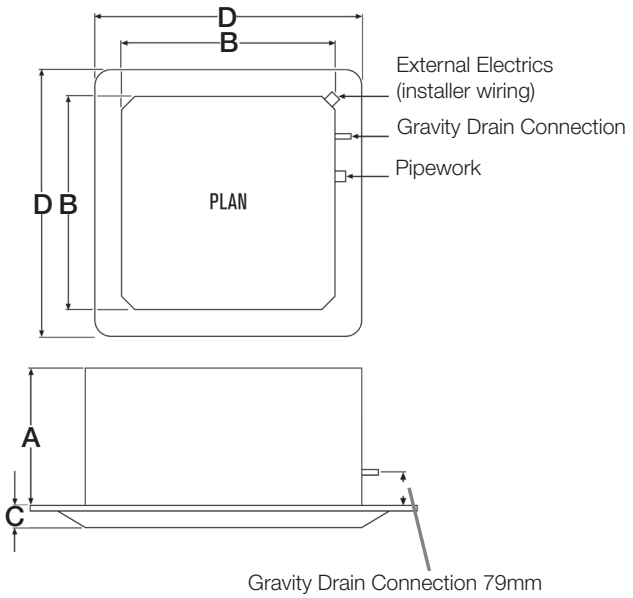


Filters

• Easy access long life washable filter



Standard Unit Dimensions

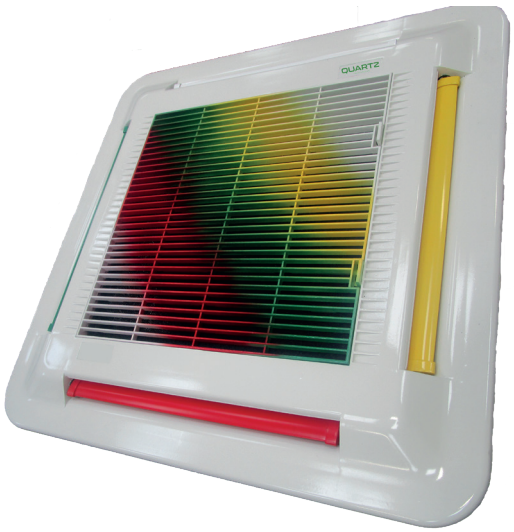


Unit Model	Height A	Width B	Depth	Fascia Height C	Fascia Width D	Fascia Depth	Weight inc. Fascia
CWC600(H) 25	306	580	580	30	675	675	23kg
CWC600(H) 45	306	580	580	30	675	675	24kg
CWC600(H) 65	306	580	580	30	675	675	25kg
CWC600(H) 75	306	580	580	30	675	675	26kg
CWC875(H) 95	314	875	875	30	966	966	36kg
CWC875(H) 135	314	875	875	30	966	966	40kg
CWC875(H) 155	314	875	875	30	966	966	44kg

* All dimensions quoted in mm

Performance Output

Model	Speed	Airflow l/s	Cooling				Heating			Electrical (EC/DC)	Acoustic	Full Load Current (A)	Starting Current (A)
			UK (23db/16.1wb)		Eurovent (27db/19wb)		UK (20db)	Eurovent (20˚C)					
			6/12		7/12		82/71	65/55 4 pipe	45/40 2 pipe				
			Sensible	Total	Sensible	Total	Total	Total	Total	Anticipated SFP	NR		
			kW	kW	kW	kW	kW	kW	kW	w/l/s	See Qualification		
CWC600 25	Whisper	110	1.03	1.11	1.46	1.67	-	-	1.94	0.05	28	0.39	1.20
	Low	135	1.14	1.23	1.73	1.98	-	-	2.25	0.07	33		
	Low-med	160	1.23	1.34	1.97	2.24	-	-	2.54	0.11	39		
	Med	185	1.31	1.42	2.22	2.52	-	-	2.81	0.13	45		
	High	255	1.72	1.87	2.82	3.18	-	-	3.47	0.2	52		
CWC600 45	Whisper	105	1.57	1.89	1.86	2.60	-	-	2.45	0.06	25	0.39	1.20
	Low	130	1.83	2.09	2.31	3.20	-	-	2.99	0.08	31		
	Low-med	155	2.06	2.30	2.74	3.80	-	-	3.48	0.11	35		
	Med	180	2.28	2.51	3.12	4.32	-	-	3.94	0.13	42		
	High	240	2.72	2.94	4.00	5.49	-	-	4.97	0.21	50		
CWC600 65	Whisper	105	1.76	2.29	2.14	3.13	-	-	2.75	0.06	22	0.39	1.20
	Low	125	2.02	2.55	2.46	3.55	-	-	3.23	0.08	28		
	Low-med	150	2.32	2.84	2.84	4.04	-	-	3.82	0.11	32		
	Med	170	2.55	3.05	3.22	4.59	-	-	4.28	0.14	40		
	High	230	3.18	3.61	4.19	6.01	-	-	5.59	0.22	47		
CWC600 75	Whisper	125	2.17	2.89	2.60	3.87	-	-	3.33	0.05	25	0.39	1.20
	Low	155	2.59	3.35	3.24	4.81	-	-	4.09	0.06	30		
	Low-med	175	2.84	3.62	3.64	5.43	-	-	4.58	0.1	37		
	Med	205	3.22	3.99	4.26	6.35	-	-	5.30	0.12	43		
	High	240	3.63	4.37	4.96	7.38	-	-	6.11	0.21	48		
CWCH600 25	Whisper	110	0.84	0.91	1.34	1.51	1.93	1.31	-	0.05	28	0.39	1.20
	Low	135	0.91	0.99	4.57	1.76	2.13	1.44	-	0.07	33		
	Low-med	160	0.98	1.08	1.77	1.98	2.34	1.59	-	0.11	39		
	Med	185	1.26	1.37	1.96	2.18	2.55	1.73	-	0.13	45		
	High	255	1.75	1.91	2.37	2.64	3.07	2.07	-	0.2	52		
CWCH600 45	Whisper	105	1.38	1.54	1.64	2.14	3.16	2.15	-	0.06	25	0.39	1.20
	Low	130	1.57	1.70	2.02	2.55	3.51	2.38	-	0.08	31		
	Low-med	155	1.74	1.89	2.40	3.02	3.91	2.65	-	0.11	35		
	Med	180	1.90	2.05	2.72	3.42	4.29	2.90	-	0.13	42		
	High	240	2.20	2.37	3.46	4.30	5.12	3.46	-	0.21	50		
CWCH600 65	Whisper	105	1.62	1.99	1.96	2.78	3.10	2.11	-	0.06	22	0.39	1.20
	Low	125	1.85	2.18	2.25	3.13	3.42	2.32	-	0.08	28		
	Low-med	150	2.11	2.41	2.73	3.80	3.82	2.59	-	0.11	32		
	Med	170	2.30	2.59	3.03	4.24	4.14	2.80	-	0.14	40		
	High	230	2.81	3.06	3.96	5.53	4.99	3.37	-	0.22	47		
CWCH600 75	Whisper	125	2.03	2.58	2.52	3.70	4.04	2.76	-	0.05	25	0.39	1.20
	Low	155	2.40	2.95	3.09	4.51	4.63	3.16	-	0.06	30		
	Low-med	175	2.64	3.17	3.46	5.05	5.02	3.42	-	0.1	37		
	Med	205	2.97	3.47	3.98	5.80	5.58	3.81	-	0.12	43		
	High	240	3.34	3.81	4.50	6.54	6.12	4.17	-	0.21	48		



Model	Speed	Airflow l/s	Cooling				Heating			Electrical (EC/DC)	Acoustic	Full Load Current (A)	Starting Current (A)
			UK (23db/16.1wb)		Eurovent (27db/19wb)		UK (20db)	Eurovent (20˚C)					
			6/12		7/12		82/71	65/55 4 pipe	45/40 2 pipe				
			Sensible	Total	Sensible	Total	Total	Total	Total	Anticipated SFP	NR		
			kW	kW	kW	kW	kW	kW	kW	w/l/s	See Qualification		
CWC875 95	Whisper	240	3.08	3.40	4.04	5.50	-	-	5.37	0.02	23	0.60	1.80
	Low	330	4.11	4.51	5.25	6.94	-	-	6.91	0.05	31		
	Low-med	370	4.53	4.95	5.70	7.47	-	-	7.54	0.05	35		
	Med	450	5.27	5.73	6.66	8.33	-	-	8.73	0.07	40		
	High	540	6.07	6.58	7.50	9.41	-	-	9.97	0.11	43		
CWC875 135	Whisper	240	3.33	3.78	4.45	6.26	-	-	6.16	0.02	24	0.60	1.80
	Low	320	4.40	4.98	5.61	7.70	-	-	7.94	0.05	31		
	Low-med	360	4.90	5.53	6.14	8.37	-	-	8.78	0.06	35		
	Med	450	5.91	6.56	7.25	9.63	-	-	10.58	0.07	41		
	High	530	6.75	7.44	8.21	10.68	-	-	12.08	0.11	44		
CWC875 155	Whisper	220	3.62	4.65	4.66	6.81	-	-	6.96	0.02	24	0.60	1.80
	Low	300	4.89	6.23	6.01	8.72	-	-	8.03	0.05	31		
	Low-med	350	5.65	7.15	6.70	9.61	-	-	9.27	0.06	35		
	Med	430	6.77	8.42	7.88	11.19	-	-	11.18	0.07	41		
	High	500	7.72	9.45	8.90	12.45	-	-	12.77	0.12	45		
CWCH875 95	Whisper	240	3.07	3.38	3.85	4.94	6.05	4.19	-	0.02	23	0.60	1.80
	Low	330	3.99	4.34	4.95	6.16	7.41	5.12	-	0.05	31		
	Low-med	370	4.37	4.75	5.41	6.64	7.97	5.51	-	0.05	35		
	Med	450	5.06	5.49	6.19	7.49	8.89	6.14	-	0.07	40		
	High	540	5.76	6.22	6.96	8.29	9.91	6.83	-	0.11	43		
CWCH875 135	Whisper	240	3.49	4.08	4.29	5.90	8.31	5.74	-	0.02	24	0.60	1.80
	Low	320	4.50	5.15	5.33	7.14	10.10	6.96	-	0.05	31		
	Low-med	360	4.98	5.66	5.85	7.73	10.96	7.54	-	0.06	35		
	Med	450	5.95	6.62	6.89	8.85	12.53	8.61	-	0.07	41		
	High	530	6.80	7.50	7.79	9.80	13.90	9.54	-	0.11	44		
CWCH875 155	Whisper	220	3.39	4.16	4.36	6.23	8.16	5.65	-	0.02	24	0.60	1.80
	Low	300	4.54	5.46	5.61	7.84	10.05	6.94	-	0.05	31		
	Low-med	350	5.22	6.23	6.23	8.65	11.20	7.73	-	0.06	35		
	Med	430	6.22	7.26	7.30	9.93	12.72	8.76	-	0.07	41		
	High	500	7.05	8.08	8.18	11.00	13.97	9.62	-	0.12	45		



Qualification of NR predictions CWC ranges

The dB(A) figures quoted are intended as a guide to the levels expected in a typical office environment, based on a cooling load of 120 W/m^2, with a chilled water flow of 6°C, return of 12°C, return air temperature of 23°C and 50% R.H. Measurement points should be as follows:

- 1.4m from the discharge vane for CWC600 range units
- 2.5m from the discharge vane for CWC875 range units