HEATING | COOLING | VENTILATION

TOPAZ

Cased Waterside Control Fan Coil Units

The Quartz Topaz series comprises of vertical wall mounted and horizontal ceiling or void mounted waterside fan coil units providing reliable internal climate control when cooling or heating is required. Capacities range from 1kW to 11kW (at Eurovent conditions).

Versatile
HEATING, COOLING & VENTILATION

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www.versatile.ie

STANDARD FEATURES

- Quiet in use - room occupants will appreciate the very low sound levels.
- Class ‘O’ fire rated thermal and acoustic insulation.
- Compact, low energy motors fitted to forward curved centrifugal fans that combine with carefully matched cooling and heating coils for optimum performance.
- All models are available with various air inlet and discharge combinations.
- Units are available with AC or EC/DC fan motors. AC fans are fitted with a multi-tap transformer providing up to six fan speeds, whilst EC/DC fans may be used for variable speed control via a potentiometer or a 0-10V output from a digital controller.
- Units are easily and safely installed using keyhole slots in the back panel to mount them on a wall or ceiling, or to hang from drop rods.
- Various control options are available, ranging from simple hard wired wall mounted controllers to full BMS compatibility to meet individual project requirements.
- Servicing is made easy with simple access to the standard EU2 filter, the fan assemblies and any unit mounted controls.
- Chassis versions providing ducted or free blow options.
- Low noise sealed for life motor bearings.
- Drain tray.
- Electrics box.

EC|DC
Maximum Efficiency

EC/DC MOTORS

EC/DC fan motors, offering significant energy savings when compared with their AC counterparts, are now the standard offering for Topaz range of Fan Coils. These highly efficient fan motors can ensure that our fan coils fan motors consume around the same energy during the year as the parasitic control load of the building.

Optional Features

- Speed control potentiometer for EC/DC units.
- Condensate Pumps.
- Electric Heating.

Performance Data & Electrical Data

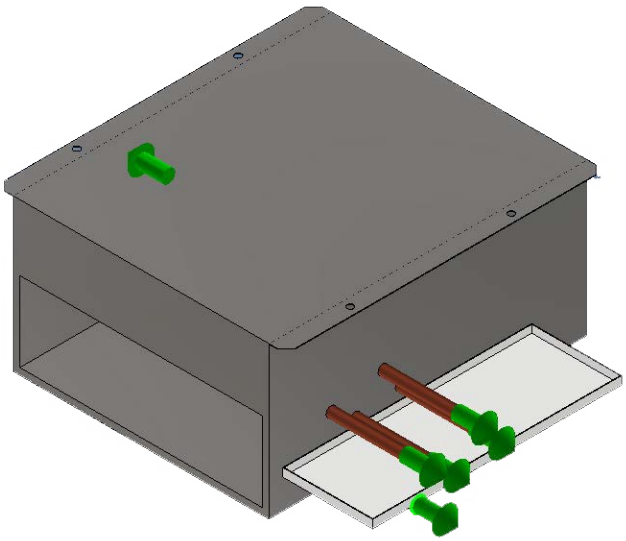
WATER FLOW/RETURN (°C)			COOLING 4 PIPE SYSTEM		COOLING 2 PIPE SYSTEM		HEATING (4 PIPE)	HEATING (2 PIPE)	ELECTRICAL DATA EC/DC				N.R. Guide
MODEL	Spd	A'flow (l/s)	6/12		6/12		80/70	80/70	Input (watts)	FLC (Amps)	S.C. (Amps)	Specific FanPower	
			Qt (kW)	Qs (kW)	Qt (kW)	Qs (kW)	(kW)	(kW)					
TPZ 10	Min	33	0.43	0.36	0.59	0.47	0.99	1.95	6	0.09	0.14	0.18	17
	Max	73	0.70	0.68	0.90	0.83	1.76	3.77	12	0.18	0.27	0.16	36
TPZ 20	Min	49	0.67	0.63	0.91	0.70	1.68	3.04	10	0.11	0.16	0.21	19
	Max	108	0.96	0.96	1.55	1.28	2.87	5.99	20	0.21	0.32	0.18	39
TPZ 30	Min	60	0.84	0.77	1.19	0.99	2.17	3.79	12	0.22	0.32	0.20	16
	Max	141	1.40	1.38	2.36	2.01	3.92	7.40	21	0.38	0.57	0.15	37
TPZ 40	Min	59	0.79	0.76	1.17	1.03	2.01	4.11	12	0.22	0.32	0.20	16
	Max	140	1.55	1.51	2.25	2.21	3.91	8.35	21	0.38	0.57	0.15	36
TPZ 50	Min	96	1.07	1.01	1.43	1.07	3.01	5.69	15	0.27	0.41	0.16	23
	Max	214	2.28	2.28	2.76	2.13	5.19	10.99	42	0.76	1.13	0.20	44
TPZ 60	Min	98	1.25	1.15	1.54	1.39	3.53	6.06	15	0.41	0.61	0.15	21
	Max	215	2.58	2.37	3.07	2.74	5.61	11.64	42	1.13	1.70	0.20	43
TPZ 70	Min	94	1.71	1.39	1.73	1.32	3.45	5.88	14	0.25	0.38	0.15	19
	Max	229	3.60	3.04	4.04	3.20	6.97	13.59	44	0.79	1.19	0.19	43
TPZ 80	Min	208	2.30	2.08	2.81	2.17	6.44	12.30	36	0.39	0.58	0.17	37
	Max	399	4.15	3.68	5.10	4.02	9.59	19.84	149	1.61	2.41	0.37	52
TPZ 90	Min	203	2.42	2.35	2.93	2.19	6.52	12.58	45	0.48	0.72	0.22	38
	Max	372	4.33	4.05	5.18	3.97	10.25	20.90	113	1.20	1.80	0.30	52
TPZ 100	Min	231	3.42	2.90	4.74	3.76	7.95	16.22	52	0.55	0.83	0.22	38
	Max	398	5.15	4.44	7.19	5.92	10.94	25.02	135	1.43	2.15	0.34	51
TPZ 110	Min	234	2.82	2.60	4.48	3.67	7.75	16.63	38	0.40	0.60	0.16	33
	Max	532	5.86	5.31	8.13	6.84	12.44	30.45	194	2.06	3.08	0.36	53
TPZ 120	Min	242	3.09	2.76	5.03	4.02	8.82	16.63	61	0.65	0.97	0.25	35
	Max	530	6.52	5.70	9.16	7.58	14.04	31.43	201	2.13	3.20	0.38	51

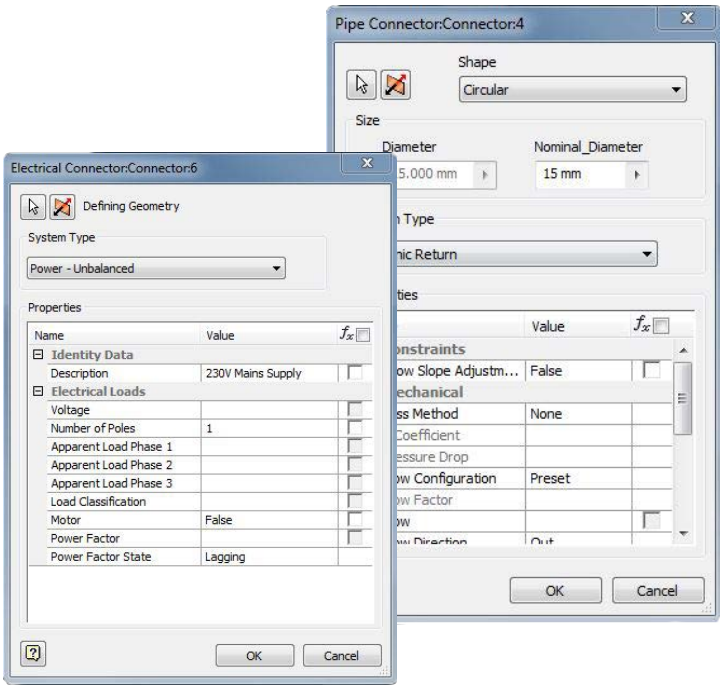
Cooling outputs based on: E.A.T. 23°C db/16°C wb. Air Volumes at 0Pa.ext.res.Heating outputs based on: E.A.T. 20°C db. Air Volumes at 0Pa.ext.res. All sound data ascertained at 0Pa. external resistance. Sound Power Level (SWL) dB ref. 10^{-12}W

Qualification of N.R. predictions: The N.R. guide figures quoted are intended to show the levels which may be expected in a typical office environments. Rooms should be carpeted, with not more than 20% glazing area or highly reflective surfaces. For accurate assessment it may be necessary to obtain confirmation from an acoustic specialist. Sound Power Levels tested in accordance with BS4856 Part 5 1979. *For units operating on secondary chilled water an allowance of +1 or 2 dB may need to be added to the NR values due to the fact that units selected will be larger, relative to output, for a given room size.

Building Information Models

Building Information Models (BIM) exist for all Quartz standard fan coils. BIM utilises an intelligent 3D model to communicate model specific information in a way that can offer advantages in time, cost and accuracy throughout the project and furthermore the life cycle of the building.



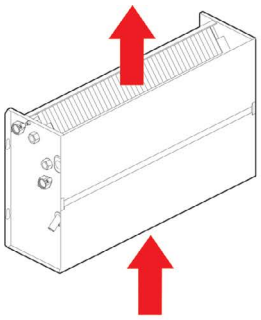


= Embedded data contained in the intelligent model

For futher information and for all non-standard models please email sales@quartz.couk or call 01484 405 630

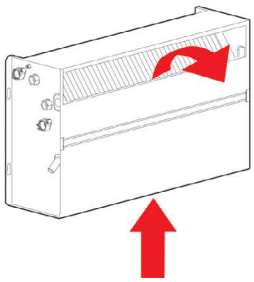
Chassis Units - Standard

Void mounted unit available as free blow or with optional spigot arrangements

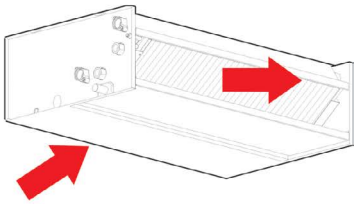


VERTICAL

Version 2



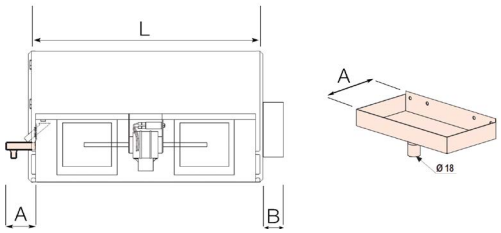
Version 7



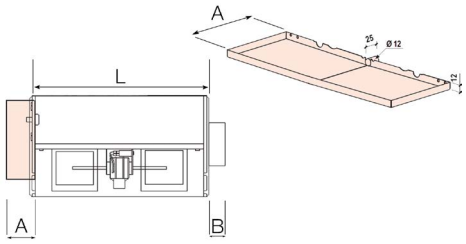
HORIZONTAL

Version 3

Chassis Units - Optional Drain Tray (A) / Electrics Box (B)



VERTICAL



HORIZONTAL

Dimensional Information

UNIT MODEL	UNIT SIZE											
	10	20	30	40	50	60	70	80	90	100	110	120
CHASSIS VERSIONS 2 & 7 (Vertical)												
LENGTH L	420	620	820	820	1020	1020	1020	1220	1220	1380	1680	1680
LENGTH A	102	102	102	102	102	102	102	102	102	130	130	130
LENGTH B	100	100	100	100	100	100	100	100	100	100	100	100
LENGTH + A + B + L	622	822	1022	1022	1222	1222	1222	1422	1422	1610	1910	1910
HEIGHT	460	460	460	460	460	460	565	565	565	585	585	585
DEPTH	220	220	220	220	220	220	220	220	220	252	252	252
CHASSIS VERSION 3 (Horizontal)												
LENGTH L	420	620	820	820	1020	1020	1020	1220	1220	1380	1680	1680
LENGTH A	130	130	130	130	130	130	160	160	160	160	160	160
LENGTH B	100	100	100	100	100	100	100	100	100	100	100	100
LENGTH + A + B + L	650	850	1050	1050	1250	1250	1280	1480	1480	1640	1940	1940
HEIGHT	460	460	460	460	460	460	565	565	565	585	585	585
DEPTH	220	220	220	220	220	220	220	220	220	252	252	252

* All dimensions quoted in mm

TEV Ltd

quartz
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bsi. ISO 9001 Quality Management ISO 14001 Environmental Management
FM 00671 EMS 91502

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