

42GW

HYDRONIC CASSETTE FAN COIL UNITS

Physical and electrical data																
Unit size		42GWC 004			42GWC 008			42GWC 010			42GWC 012			42GWE 012		
		42GWD 004			42GWD 008			42GWD 010								
		42GWE 004			42GWE 008			42GWE 010								
Fan speed		Low	Medium	High	Low	Medium	High	Low	Medium	High	Low	Medium	High	Low	Medium	High
Air flow	l/s	100	125	184	86	136	194	131	167	236	150	203	283	150	203	283
	m³/h	360	450	662	310	490	698	472	601	850	540	731	1019	540	731	1019
Cooling mode, 2-pipe systems																
Total cooling capacity*	kW	1.55	1.90	2.4	1.90	2.85	4.00	2.85	3.50	4.70	3.40	4.50	6.30	3.40	4.50	5.90
Sensible cooling capacity*	kW	1.31	1.49	2.01	1.41	2.16	3.10	2.30	2.80	3.90	2.70	3.60	5.20	2.70	3.60	4.80
Water flow rate	l/s	0.07	0.09	0.11	0.09	0.14	0.19	0.14	0.17	0.22	0.16	0.22	0.30	0.16	0.22	0.28
	l/h	267	327	413	327	490	688	490	602	808	585	774	1084	585	774	1015
Water pressure drop	kPa	3.7	5.0	10.0	4.0	7.0	12.0	6.0	10.0	20.0	9.0	12.3	24.6	8.0	11.0	19.0
Heating mode, 2-pipe systems (42GWC)																
Heating capacity*	kW	2.16	2.49	3.15	2.02	3.43	4.19	3.69	4.38	6.02	4.38	5.87	8.11	4.80	6.30	8.50
Water pressure drop	kPa	3.7	5.0	10.0	3.8	6.9	12.5	5.0	8.0	17.0	6.5	10.0	19.0	6.5	8.0	16.0
Electric heaters (42GWE only)	W	1500	1500	1500	2500	2500	2500	2500	2500	2500	-	-	-	3000	3000	3000
Heating mode, 4-pipe systems																
Heating capacity*	kW	1.20	1.40	1.90	2.13	3.18	4.25	2.73	3.50	4.61	-	-	-	-	-	-
Water flow rate	l/s	0.03	0.03	0.04	0.05	0.08	0.10	0.07	0.08	0.11	-	-	-	-	-	-
	l/h	107	124	163	183	273	366	235	301	396	-	-	-	-	-	-
Water pressure drop	kPa	14.2	19.2	30.7	20.0	24.4	24.4	41.5	62.2	66.3	-	-	-	-	-	-
Power supply	V-ph-Hz	230-1-50			230-1-50			230-1-50			230-1-50			230-1-50		
Power input	W	40	50	70	80	60	90	60	80	100	33	51	85	33	51	85
Sound power level	dB(A)	34	38	49	34	45	54	44	50	59	36	41	49	36	41	49
Sound pressure level**	dB(A)	22	26	37	22	33	42	32	38	47	24	29	37	24	29	37
NR value		17	21	32	17	28	37	27	33	42	19	24	32	19	24	32
Dimensions, unit (H x L x D)	mm	298 x 575 x 575			298 x 575 x 575			298 x 575 x 575			298 x 825 x 825			298 x 825 x 825		
Dimensions, grille (H x L x D)	mm	30 x 720 x 720			30 x 720 x 720			30 x 720 x 720			30 x 960 x 960			30 x 960 x 960		
Weight, unit	kg	19			20			20			41			41		
Weight, grille	kg	2.5			2.5			2.5			5			5		

Unit size		42GWC 016			42GWE 016			42GWC 020			42GWD 020				
											42GWE 020				
Fan speed		Low	Medium	High	Low	Medium	High	Low	Medium	High	Low	Medium	High		
Air flow	l/s	147	242	338	147	242	338	178	315	468	178	315	468		
	m³/h	529	871	1217	529	871	1217	641	1134	1685	641	1134	1685		
Cooling mode, 2-pipe systems															
Total cooling capacity*	kW	3.17	5.10	7.60	4.10	6.10	8.30	3.90	7.10	10.00	4.60	8.10	11.00		
Sensible cooling capacity*	kW	1.74	3.24	5.11	2.67	4.24	5.81	2.52	4.78	7.15	3.22	5.78	8.15		
Water flow rate	l/s	0.15	0.24	0.36	0.20	0.29	0.40	0.19	0.34	0.48	0.22	0.39	0.53		
	l/h	545	877	1307	705	1049	1428	671	1221	1720	791	1393	1892		
Water pressure drop	kPa	2.8	5.6	14.0	4.4	9.8	15.3	4.4	12.4	24.0	5.0	15.0	25.0		
Heating mode, 2-pipe systems (42GWC)															
Heating capacity*	kW	4.30	7.30	10.80	4.58	7.14	9.70	5.40	10.00	13.90	5.80	10.30	14.40		
Water pressure drop	kPa	2.7	5.6	12.3	3.4	7.9	13.6	3.3	10.7	21.3	4.9	14.7	27.0		
Electric heaters (42GWE only)	W	-	-	-	3000	3000	3000	-	-	-	3000	3000	5000		
Heating mode, 4-pipe systems															
Heating capacity*	kW	-	-	-	-	-	-	-	-	-	5.10	7.90	9.00		
Water flow rate	l/s	-	-	-	-	-	-	-	-	-	0.12	0.19	0.22		
	l/h	-	-	-	-	-	-	-	-	-	439	679	774		
Water pressure drop	kPa	-	-	-	-	-	-	-	-	-	22.0	43.0	58.0		
Power supply	V-ph-Hz	230-1-50			230-1-50			230-1-50			230-1-50				
Power input	W	40	75	120	40	75	120	70	140	200	70	140	200		
Sound power level	dB(A)	41	49	56	41	49	56	42	55	63	42	55	63		
Sound pressure level**	dB(A)	29	37	44	29	37	44	30	43	51	30	43	51		
NR value		24	32	39	24	32	39	25	38	46	25	38	46		
Dimensions, unit (H x L x D)	mm	298 x 825 x 825			298 x 825 x 825			298 x 825 x 825			298 x 825 x 825				
Dimensions, grille (H x L x D)	mm	30 x 960 x 960			30 x 960 x 960			30 x 960 x 60			30 x 960 x 960				
Weight, unit	kg	43			43			46			46				
Weight, grille	kg	5			5			5			5				

* Based on standard Eurovent conditions:
Cooling 27°C db/19°C wb air temperature, 7°C/12°C entering/leaving water temperature
2-pipe heating: 20°C air temperature, 50°C entering water temperature, same water flow rate as in cooling
4-pipe heating: 20°C air temperature, 70°C/60°C entering/leaving water temperature

** Sound pressure levels are based on a hypothetical acoustic attenuation for the room and the system (diffuser, ductwork, ceiling) of -18 dB(A) for a 2-pipe system



FEATURES

- Six sizes with two-pipe, two-pipe plus electric heater or four-pipe coils, with an air flow range from 100 to 470 l/s, a cooling capacity range from 1.5 to 11 kW, and a heating capacity range from 2 to 14 kW
- Cassette chilled-water fan coil system designed for installation in false ceilings with an all-in-one air distribution grille integrated in the ceiling panel
- Reliable and economical cooling and heating for light commercial applications, large offices, shops, restaurants, showrooms, lobbies and meeting rooms
- Elegant air inlet grille, blends in with any room décor
- Minimised size, using a U-shape coil, and low height of 300 mm
- All-in-one design for increased installation flexibility
- Two-, three- or four-way air outlets permit adjustable Coanda effect air diffusion to suit individual comfort requirements
- Low sound level
- Safe factory-installed electric heater for single or two-stage hot water heating
- Low hydraulic pressure drop, compatible with all chiller pump kits
- Easy maintenance with direct access from below to all main components

OPTIONS/ACCESSORIES

- Two- or four-way valves
- Infrared receiver located in grille
- Motorised louvres
- Air supply outlet obstruction kit

STANDARD CONTROLS

Electronic thermostat



- Two versions, A and B, with potentiometer
- Automatic or manual three-speed selection
- Automatic or manual change-over
- Electric heat control
- Comfort/economy/frost protection modes

HDB controller



- Digital display or infra-red terminal
- Unit grouping capability
- Adjustable settings and parameters
- Timer and daily scheduling

NTC communicating controller



- Network communication
- Aquasmart Evolution system compatible
- IAQ and DCV management
- Motorised blinds and lighting control