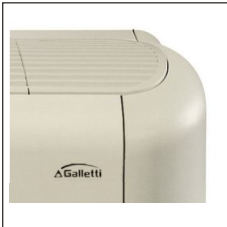


ESTRO 1.2 FAN COIL UNITS WITH CENTRIFUGAL FAN

The most complete range of fan coil units on the market featuring the Galletti technology, quality level and reliability.

The conception underlying its construction makes it possible to combine models for vertical and horizontal installation: models for surface mounting on walls, floors/ceilings and recess mounting in walls/ceilings plus low body model for floor installation. Low body models for vertical and horizontal recess mounting available on request.

20 models with cooling capacity from 1 to 11 kW, in 8 different versions:



For the ESTRO 1.2 project we selected top quality materials which, together with the great care and attention dedicated to the assembly of the main construction components, make Galletti fan coil units highly reliable from a performance standpoint while minimising noise levels.

Round shapes and colours that can satisfy all interior decorating needs, in line with architectural requirements.

- CABINET COMPOSED of a thick steel sheet panel, side panels, air outlet grille (swinging by 180°) and back suction grille built from **ABS**.
- BEARING STRUCTURE built from thick galvanised sheet steel, insulated by means of Class 1 self-extinguishing panels. The versions designed for horizontal mounting are equipped with a large water drip tray.
- HIGH EFFICIENCY HEAT EXCHANGER made with copper piping and aluminium fins blocked to pipings by mechanical expansion, provided with brass manifolds and air vent valve. The heat exchanger comes with water connections mounted on the left, but it can be turned by 180°. On request it is possible to install an additional heat exchanger to be connected to the heating circuit, for installing ESTRO 1.2 in 4-pipe systems.
- Double suction CENTRIFUGAL FANS, statically and dynamically balanced, manufactured from anti-static ABS, with blades having an airfoil section and offset modules.
- ELECTRICAL MOTOR, mounted on vibration damping couplings, with permanently activated capacitor and winding thermal protection. thermal protection, directly connected to the fans is available in three versions to meet every type of performance, noise level and energy consumption:



to meet every type of performance, noise level and energy consumption:

- three speeds
- six speeds
- permanent magnets type

The unit is equipped with an inverter board to control the motor, which can be used separately or installed on the motor itself. This system makes it possible to precisely set the maximum rotation speed of the motor (control signal 0-10 V) even when the maximum rotation speed must be controlled to reduce noise levels.

The control inverter is equipped with Hall cells to precisely control the position of the rotor, and thus the rotation even at very low rotation speed.

- HONEY-COMB POLYPROPYLENE WASHABLE AIR FILTER, mounted on a galvanised sheet frame protected by a net, easily removable for maintenance operations. On **FU** and **FB** versions the air filters are fitted onto the air inlet grille situated on the front panel of the cabinet.
- CONTROL PANELS available as accessory for temperature control and adjustment through a microprocessor system that automatically regulates the fan coil unit operation according to the ambient conditions.

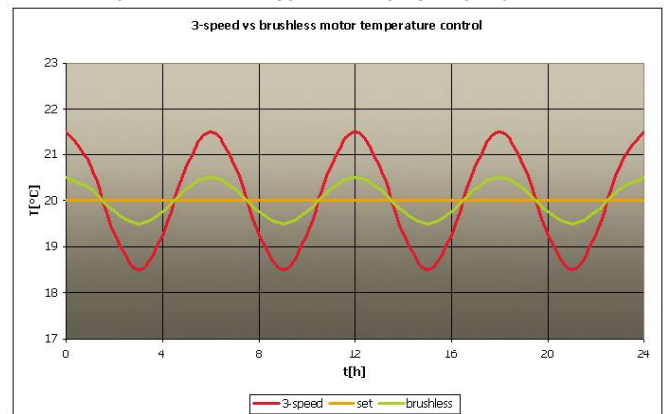


INDOOR UNITS WITH PERMANENT MAGNETS MOTOR

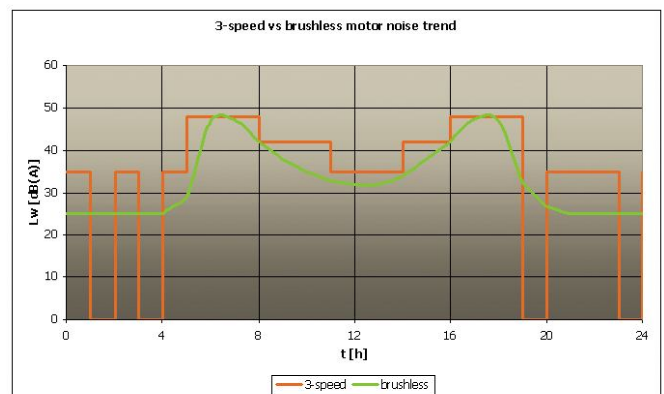
The Galletti fan coils can be equipped with electric motors with permanent magnets (brushless) to continually change the fan speed when controlled by an inverter.

The great advantage of brushless motors is the significant reduction in power consumption, which in instant operations reaches up to a 1/3 of that of conventional motors and at around 50% in integrated operations, with the corresponding reduction in CO₂ emissions!

The DC Inverter technology allows to continuously adjust the air flow to the actual needs of the environment by considerably reducing the fluctuations in room temperature that are typical of step-by-step adjustments.



The direct consequence is also the reduction in the noise emission of the fan coil, which is now proportional to the demands of the environment.



SANITISED INDOOR UNITS

For years Galletti has been using an innovative Swiss patent called **Bioxigen®** for its indoor hydronic units., that releases **active ions** and ensures a triple action:

- > sanitisation of the indoor unit and of the treated air
- > deodorisation
- > improvement in Indoor Air Quality

Through Galletti indoor units, **Bioxigen®** drastically reduces microbial contamination and also reduces the presence of fine dusts, thus regenerating the air and maintaining a correct ionic balance.

The active ions of **Bioxigen®** sanitise and deodorise indoor environments, reducing the risks of contagion of infectious diseases and the incidence of chronic disorders (respiratory diseases, allergies, asthma, etc.).

FL\FLI

wall-mounted, with cabinet, with vertical air flow

**FA\FAI**

wall-mounted, with cabinet, with inclined air flow

**FU\FUI**

floor and ceiling mounted, cabinet with air outlet grilles and intake grilles with filter.

**FP\FPI**

ceiling mounted, cabinet with air outlet grilles and rear air intake with filter.

**FB\FBI**

low model for floor and ceiling installation, height 438 mm, cabinet with air outlet grilles and intake grilles with filter.

**FBC\FBCI**

low model for vertical and horizontal recess mounting, height 412 mm, front air intake, thermally insulated galvanised sheet steel body.

**FC\FCI**

model for vertical and horizontal recess mounting, thermally insulated galvanised sheet steel body.

**FF\FFI**

model for vertical and horizontal recess mounting, front air intake, thermally insulated galvanised sheet steel body.



- On-board speed switch
- On-board speed switch and thermostat
- On-board speed switch, thermostat and summer/winter selecting switch
- Thermostat for minimum water temperature in the heating mode for electromechanical controls
- Electronic controls with display, air sensor, humidity sensor, serial port, digital and analogue outputs
- Water temperature sensor for microprocessor controls models MYCOMFORT BASE, MYCOMFORT MEDIUM AND MYCOMFORT LARGE
- Remote humidity sensor for electronic controls
- On-board control for opening and closing of the motor-driven regulating louver
- Power interface for connecting in parallel up to 4 units to one control
- Recess wall-mounted speed switch
- Wall-mounted speed switch
- Wall-mounted speed switch, electromechanical thermostat and summer-winter selecting switch
- Wall-mounted speed switch and thermostat
- Wall-mounted speed switch, electromechanical thermostat and summer/winter selecting switch for 2 or 4-pipe systems with valves.
- Recess wall-mounted electronic control
- Wall-mounted electronic controls with display, air sensor, humidity sensor, serial port, digital and analogue outputs
- Wall-mounted control for opening and closing the motor-driven regulating louver
- Electromechanical room thermostat
- Electromechanical room thermostat with summer/winter selecting switch
- 1 row additional heat exchanger for 4-pipe systems (hot water circuit)
- Pair of support covering feet
- Pair of support covering feet with front grille
- Support spacers
- Rear painted panel for vertical installation fan coil units with cabinet
- Rear painted panel for horizontal installation fan coil units with cabinet
- 2 or 3-way valve with ON/OFF electrothermal motor and hydraulic kit
- 2 or 3-way valve with modulating motor and hydraulic kit
- Auxiliary trays
- Drainage pump kit
- Heating element with installation kit, relay box and safety devices, and heat resistant grilles
- Anodised aluminium grille for air intake, with or without filter
- Anodized aluminium air outlet grille with 2-row fins
- Air inlet and outlet straight connectors
- Air outlet straight connector
- Angular air inlet and outlet connectors
- Air intake and outlet plenum with circular collars
- Manual external air intake louver
- Motor-driven external air intake louver
- BIOXIGEN ionisation system

ESTRO 1.2			1						2			3					
Motor / speeds	3x		min	med	Max				min	med	Max		min	med	Max		
	6x	no.	1	2	3	4	5	6	not available			1	2	3	4	5	6
Total cooling capacity (1)		kW	0,77	0,92	1,15	1,33	1,41	1,54	1,04	1,24	1,54	1,20	1,26	1,52	1,74	1,91	2,12
Sensible cooling capacity (1)		kW	0,59	0,70	0,87	0,98	1,03	1,11	0,79	0,97	1,20	0,90	0,95	1,14	1,30	1,43	1,58
Water flow (1)		l/h	132	158	197	228	242	264	179	213	264	206	216	261	298	328	364
Pressure drop (1)		kPa	4	5	7	10	11	12	7	9	13	8	8	11	14	17	20
Heating capacity (2)		kW	1,1	1,3	1,6	1,9	2,0	2,2	1,4	1,7	2,1	1,6	1,7	2,0	2,2	2,6	2,8
Pressure drop (2)		kPa	3	4	6	8	9,00	10	6	8	11	6	7	9	12	14	17
Heating capacity (3)		kW	1,9	2,3	2,7	3,3	3,5	3,8	2,5	3,0	3,7	2,8	2,9	3,5	3,7	4,4	4,9
Water flow (3)		l/h	171	199	235	286	303	331	216	263	325	242	257	307	329	409	429
Pressure drop (3)		kPa	4	6	8	11	12	14	7	10	15	8	8	11	13	13	21
Air flow rate		m ³ /h	149	189	231	342	380	450	178	233	319	196	211	271	344	380	450
Electrical input	3x	W	18	21	32				21	28	37		25	36	53		
	6x	W	11	15	26	39	49	66	not available			11	15	26	39	49	66
	EC	W	5	6	7	19	22	31	6	7	17	6	7	9	19	22	31
Number of fans		no.	1						1			1					
Sound power level (4)		dB/A	30	32	40	48	52	55	37	42	47	32	38	44	49	52	55
Sound pressure level (5)		dB/A	25	27	35	43	47	50	32	37	42	27	33	39	44	47	50
Additional heat exchanger heat.capacity		kW	1,35	1,50	1,70	2,03	2,13	2,29	1,50	1,70	1,90	1,55	1,56	1,78	2,02	2,13	2,29
Water flow		l/h	118	132	149	178	187	201	132	149	167	136	137	156	177	187	201
Pressure drop		kPa	3	4	4	6	7	8	4	5	6	5	5	7	8	9	10
Water connections	std	"	1 / 2						1 / 2			1 / 2					
	DF	"	1 / 2						1 / 2			1 / 2					
Water content	std	dm ³	0,5						0,5			0,5					
	DF	dm ³	0,2						0,2			0,2					

ESTRO 1.2			4						4M						5					
Motor / speeds	3x		min	med	Max				min	med	Max				min	med	Max			
	6x	no.	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
Total cooling capacity (1)		kW	1,40	1,36	1,70	1,96	2,33	2,62	1,41	1,50	1,85	2,24	2,42	2,76	1,40	1,60	2,03	2,42	2,74	2,90
Sensible cooling capacity (1)		kW	1,00	1,00	1,24	1,42	1,69	1,90	1,00	1,06	1,32	1,60	1,74	1,99	1,04	1,18	1,57	1,88	2,23	2,39
Water flow (1)		l/h	240	234	292	337	399	449	242	258	317	384	415	473	239	275	348	415	470	498
Pressure drop (1)		kPa	7	6	9	12	16	20	9	10	14	20	23	28	6	8	12	16	20	22
Heating capacity (2)		kW	1,7	1,8	2,2	2,6	2,8	3,1	1,7	1,8	2,3	2,7	3,0	3,4	1,9	2,1	2,7	3,2	3,6	3,8
Pressure drop (2)		kPa	5	5	8	10	13	20	7	8	11	16	18	23	5	6	10	13	16	18
Heating capacity (3)		kW	2,9	3,0	3,7	4,4	4,7	5,2	2,9	3,1	3,8	4,6	5,0	5,7	3,2	3,5	4,6	5,5	6,2	6,5
Water flow (3)		l/h	252	267	322	382	409	456	254	270	333	405	439	500	276	308	401	480	541	574
Pressure drop (3)		kPa	5	6	8	11	13	15	7	8	12	16	19	24	6	7	12	16	20	22
Air flow rate		m ³ /h	196	211	271	344	380	450	196	211	271	344	380	450	211	241	341	442	528	579
Electrical input	3x	W		24	36	53				24	36	53				29	44	57		
	6x	W	11	15	26	39	49	66	11	15	26	39	49	66	24	33	45	62	69	82
	EC	W	6	7	9	19	22	31	6	7	9	19	22	31	5	6	8	15	24	29
Number of fans		no.	1						1						2					
Sound power level (4)		dB/A	32	40	44	50	52	55	32	40	44	50	52	55	26	35	43	48	50	52
Sound pressure level (5)		dB/A	27	35	39	45	47	50	27	35	39	45	47	50	21	30	38	43	45	47
Additional heat exchanger heat.capacity		kW	1,55	1,56	1,78	2,02	2,13	2,29	not available						1,92	2,06	2,53	2,92	3,37	3,51
Water flow		l/h	136	137	156	177	187	201	not available						169	181	222	257	295	308
Pressure drop		kPa	5	5	7	8	9	10	not available						2	2	3	4	6	6
Water connections	std	"	1 / 2						1 / 2			1 / 2								
	DF	"	1 / 2						not available			1 / 2								
Water content	std	dm ³	0,7						0,7			0,7								
	DF	dm ³	0,2						not available			0,3								

- 1 Water temperature 7-12°C, air temp. 27°C D.B., 19°C W.B. (47% R.H.)
- 2 Water temp. 50°C, water flow rate same as in cooling mode, air inlet temperature 20°C
- 3 Water temp. 70/60°C, air temp. 20°C
- 4 Sound power measured according to standards ISO3741 and ISO3742
- 5 Sound pressure level measured at a distance of 1 m with a directivity factor of 4

Performances of ESTRO 1.2 fan coil units are certified by EUROVENT



ESTRO 1.2		6						6M						7						
Motor / speeds	3x		min	med	Max			min	med	Max			min	med	Max					
	6x	no.	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
Total cooling capacity (1)		kW	1,53	1,76	2,38	2,93	3,37	3,61	1,70	1,93	2,64	3,29	3,82	4,11	1,98	2,63	3,51	3,97	4,15	4,40
Sensible cooling capacity (1)		kW	1,10	1,26	1,70	2,11	2,39	2,55	1,17	1,33	1,83	2,30	2,68	2,90	1,45	2,04	2,75	3,22	3,39	3,63
Water flow (1)		l/h	263	302	408	503	579	619	292	331	453	565	655	706	340	451	602	681	712	755
Pressure drop (1)		kPa	4	5	8	11	15	16	5	7	12	17	23	26	4	7	12	15	16	18
Heating capacity (2)		kW	2,0	2,3	3,1	3,8	4,4	4,7	2,1	2,3	3,2	4,0	4,7	5,1	2,8	3,7	4,8	5,5	5,8	6,1
Pressure drop (2)		kPa	3	4,00	6,00	9	12	13	4	6	10	14	18	21	4	6	10	12	13	15
Heating capacity (3)		kW	3,4	3,9	5,2	6,5	7,4	8,0	3,5	3,9	5,4	6,8	7,9	8,6	4,8	6,3	8,2	9,5	10,0	10,6
Water flow (3)		l/h	299	339	458	567	651	697	302	343	473	595	694	750	424	556	720	837	876	929
Pressure drop (3)		kPa	3	4	7	11	14	15	4	6	10	14	19	22	5	8	13	16	18	20
Air flow rate		m3/h	211	241	341	442	528	579	211	241	341	442	528	579	320	450	640	798	855	938
Electrical input	3x	W		29	43	56				29	43	56			37	61	98			
	6x	W	24	33	45	62	69	82	24	33	45	62	69	82	39	49	64	84	89	100
	EC	W	5	6	8	15	24	29	5	6	8	15	24	29	8	12	18	35	42	52
Number of fans	no.		2						2						2					
Sound power level (4)		dB/A	26	35	42	48	50	52	26	34	42	48	50	52	35	43	52	56	57	60
Sound pressure level (5)		dB/A	21	30	37	43	45	47	21	29	37	43	45	47	30	38	47	51	52	55
Additional heat exchanger heat.capacity		kW	2,06	2,18	2,68	3,08	3,37	3,51	not available						3,21	3,96	4,80	5,34	5,52	5,77
Water flow		l/h	180	191	235	270	295	308	not available						282	347	421	469	484	506
Pressure drop		kPa	3	3	4	5	6	7	not available						4	6	9	10	11	12
Water connections	std	"	1 / 2						1 / 2						1 / 2					
	DF	"	1 / 2						not available						1 / 2					
Water content	std	dm3	1,0												1,0					
	DF	dm3	0,3						not available						0,4					

ESTRO 1.2		7M						8						8M						
Motor / speeds	3x		min	med	Max			min	med		Max			min	med		Max			
	6x	no.	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
Total cooling capacity (1)		kW	2,48	3,39	4,58	5,46	5,77	6,20	2,51	3,27	3,98	4,33	4,93	5,26	2,78	3,70	4,56	4,96	5,77	6,20
Sensible cooling capacity (1)		kW	1,73	2,37	3,22	3,87	4,09	4,40	1,80	2,45	3,04	3,15	3,90	4,20	1,94	2,59	3,21	3,50	4,09	4,40
Water flow (1)		l/h	427	582	785	938	991	1065	431	561	683	743	847	903	477	635	782	850	991	1065
Pressure drop (1)		kPa	6	11	18	24	27	30	5	8	11	12	16	17	7	12	18	20	27	30
Heating capacity (2)		kW	3,0	4,1	5,5	6,6	6,9	7,4	3,0	3,9	5,2	5,1	6,4	6,9	3,4	4,5	5,5	6,0	6,9	7,4
Pressure drop (2)		kPa	5	9	14	20	22	25	4	6	9	10	13	14	6	10	14	17	22	25
Heating capacity (3)		kW	5,1	6,8	9,2	11,0	11,6	12,5	5,0	6,6	8,9	8,6	11,0	11,7	5,6	7,5	9,2	10,0	11,6	12,5
Water flow (3)		l/h	444	601	808	965	1020	1096	442	576	777	752	962	1025	495	654	805	876	1020	1096
Pressure drop (3)		kPa	5	8	14	19	21	24	4	6	10	10	15	16	6	10	14	16	21	24
Air flow rate		m3/h	320	450	640	798	855	938	361	497	637	706	855	938	361	497	637	706	855	938
Electrical input	3x	W	37	61	98				38	61		98			38	61		98		
	6x	W	39	49	64	84	89	100	39	49	64	84	89	100	39	49	64	84	89	100
	EC	W	8	12	18	35	42	52	10	13	18	27	42	52	10	13	18	27	42	52
Number of fans	no.		2						2						2					
Sound power level (4)		dB/A	35	43	52	56	57	60	35	43	50	53	57	60	35	43	50	53	57	60
Sound pressure level (5)		dB/A	30	38	47	51	52	55	30	38	45	48	52	55	30	38	45	48	52	55
Additional heat exchanger heat.capacity		kW	not available						3,6	4,25	4,79	5,05	5,52	5,77	not available					
Water flow		l/h	not available						316	373	420	443	484	506	not available					
Pressure drop		kPa	not available						7	9	11	12	14	16	not available					
Water connections	std	"	1 / 2						1 / 2						1 / 2					
	DF	"	not available						1 / 2						not available					
Water content	std	dm3							1,4											
	DF	dm3	not available						0,4						not available					

- 1 Water temperature 7-12°C, air temp. 27°C D.B., 19°C W.B. (47% R.H.)
- 2 Water temp. 50°C, water flow rate same as in cooling mode, air inlet temperature 20°C
- 3 Water temp. 70/60°C, air temp. 20°C
- 4 Sound power measured according to standards ISO3741 and ISO3742
- 5 Sound pressure level measured at a distance of 1 m with a directivity factor of 4



Performances of ESTRO 1.2 fan coil units are certified by EUROVENT

ESTRO 1.2			9						9M						95					
Motor / speeds	3x		min	med	Max				min	med	Max				min	med	Max			
	6x	no.	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
Total cooling capacity (1)		kW	2,67	3,17	3,87	4,77	5,00	5,33	2,98	3,52	4,37	5,40	5,77	6,20	2,93	3,42	4,19	5,26	5,81	6,27
Sensible cooling capacity (1)		kW	1,96	2,32	2,92	3,65	3,90	4,20	2,08	2,47	3,07	3,82	4,09	4,40	2,07	2,34	3,00	3,82	4,15	4,49
Water flow (1)		l/h	457	544	664	818	857	914	511	605	750	926	991	1065	503	587	719	902	998	1075
Pressure drop (1)		kPa	5	7	10	14	16	17	8	11	16	24	27	30	7	9	13	19	23	26
Heating capacity (2)		kW	3,6	4,0	4,9	6,0	6,8	7,2	3,6	4,2	5,2	6,5	6,9	7,4	3,7	4,2	5,2	6,6	7,4	8,0
Pressure drop (2)		kPa	4	6	8	12	13	14	7	9	13	19	22	25	6	7	10	16	19	21
Heating capacity (3)		kW	6,1	6,7	8,3	10,1	11,6	12,4	6,0	7,1	8,8	10,9	11,6	12,5	6,2	7,1	8,7	11,1	12,5	13,5
Water flow (3)		l/h	537	588	724	884	1013	1084	529	623	772	953	1020	1096	545	623	765	973	1092	1180
Pressure drop (3)		kPa	5	6	9	12	16	18	7	9	13	19	21	24	6	8	11	17	20	23
Air flow rate		m ³ /h	389	470	605	785	855	938	389	470	605	785	855	938	389	488	615	814	855	938
Electrical input	3x	W		47	68	98				47	68	98				52	73	107		
	6x	W	39	49	64	84	89	100	39	49	64	84	89	100	43	54	70	92	97	109
	EC	W	10	12	16	33	42	52	10	12	16	33	42	52	10	13	16	37	42	52
Number of fans		no.	2						2						2					
Sound power level (4)		dB/A	39	43	49	56	57	60	39	43	49	56	57	60	39	44	51	58	58	60
Sound pressure level (5)		dB/A	34	38	44	51	52	55	34	38	44	51	52	55	34	39	46	53	53	55
Additional heat exchanger heat.capacity		kW	3,67	4,04	4,65	5,3	5,52	5,77	not available						3,98	4,21	4,78	5,51	6,10	6,38
Water flow		l/h	322	355	408	465	484	506	not available						350	369	419	483	535	560
Pressure drop		kPa	5	6	8	10	11	12	not available						8	9	11	14	17	19
Water connections	std	"	1 / 2						1 / 2						3 / 4					
	DF	"	1 / 2						not available						3 / 4					
Water content	std	dm ³	1,4						not available						1,7					
	DF	dm ³	0,4						not available						0,5					

ESTRO 1.2			10			10M			11					
Motor / speeds	3x		min	med	Max	min	med	Max		min		med		Max
	6x	no.	not available			not available			1	2	3	4	5	6
Total cooling capacity (1)		kW	3,97	5,27	6,71	4,41	5,82	7,38	3,36	4,11	5,31	6,24	7,50	8,02
Sensible cooling capacity (1)		kW	2,84	3,83	4,91	3,07	4,06	5,17	2,53	3,05	3,94	4,63	5,59	5,96
Water flow (1)		l/h	681	904	1.152	756	999	1.267	577	706	911	1071	1287	1075
Pressure drop (1)		kPa	5	8	12	8	14	21	4	6	10	13	18	26
Heating capacity (2)		kW	4,8	6,2	7,8	5,2	6,7	8,4	4,5	5,2	6,7	7,8	9,3	10,0
Pressure drop (2)		kPa	4	6	10	7	11	17	4	5	8	11	15	21
Heating capacity (3)		kW	8,1	10,5	13,1	8,6	11,2	14,0	7,8	8,9	11,4	13,2	15,7	16,9
Water flow (3)		l/h	707	918	1152	757	983	1232	680	782	1000	1158	1374	1486
Pressure drop (3)		kPa	4	6	9	6	10	15	4	6	9	11	15	17
Air flow rate		m ³ /h	570	771	1.011	670	771	1.011	530	642	846	1022	1280	1393
Electrical input	3x	W	86	127	182	86	127	182		109		169		244
	6x	W	not available			not available			64	87	123	182	205	227
	EC	W	12	18	37	12	18	37	11	13	24	38	69	87
Number of fans		no.	2			2			2					
Sound power level (4)		dB/A	47	54	61	47	54	61	43	49	55	60	64	67
Sound pressure level (5)		dB/A	42	49	56	42	49	56	38	44	50	55	59	52
Additional heat exchanger heat.capacity		kW	5,69	6,83	7,91	not available			5,56	5,50	7,26	7,14	8,96	8,35
Water flow		l/h	499	600	694	not available			488	483	637	627	786	733
Pressure drop		kPa	17	23	30	not available			15	14	23	23	34	30
Water connections	std	"	3 / 4			3 / 4			3 / 4					
	DF	"	1 / 2			not available			1 / 2					
Water content	std	dm ³	2,1			not available			2,1					
	DF	dm ³	0,6			not available			0,6					

- 1 Water temperature 7-12°C, air temp. 27°C D.B., 19°C W.B. (47% R.H.)
- 2 Water temp. 50°C, water flow rate same as in cooling mode, air inlet temperature 20°C
- 3 Water temp. 70/60°C, air temp. 20°C
- 4 Sound power measured according to standards ISO3741 and ISO3742
- 5 Sound pressure level measured at a distance of 1 m with a directivity factor of 4



Performances of ESTRO 1.2 fan coil units are certified by EUROVENT

ESTRO 1.2		11M						12			
Motor / speeds	3x		min		med		Max	min	med	Max	
	6x	no.	1	2	3	4	5	6	not available		
Total cooling capacity (1)		kW	3,89	4,66	5,95	6,98	8,40	8,98	6,97	8,77	10,95
Sensible cooling capacity (1)		kW	2,75	3,29	4,21	4,95	5,97	6,39	5,12	6,46	8,07
Water flow (1)		l/h	668	800	1022	1199	1440	1541	1.196	1.505	1.879
Pressure drop (1)		kPa	7	9	14	19	26	29	14	22	32
Heating capacity (2)		kW	4,8	5,7	7,2	8,4	10,1	10,8	8,9	11,1	14,5
Pressure drop (2)		kPa	6	8	12	15	21	24	12	18	26
Heating capacity (3)		kW	8,1	9,6	12,1	14,2	17,0	18,2	15,0	18,8	24,7
Water flow (3)		l/h	710	840	1063	1242	1489	1593	1317	1645	2164
Pressure drop (3)		kPa	6	8	12	15	21	24	13	19	31
Air flow rate		m ³ /h	530	642	846	1022	1280	1393	1.010	1.317	1.850
Electrical input	3x	W		109		169		244	210	240	310
	6x	W	64	87	123	182	205	227	not available		
	EC	W	11	13	24	38	69	87	not available		
Number of fans		no.	2						3		
Sound power level (4)		dB/A	43	49	55	60	64	67	60	64	71
Sound pressure level (5)		dB/A	38	44	50	55	59	52	55	59	66
Additional heat exchanger heat.capacity		kW	not available						7,85	9,08	10,8
Water flow		l/h	not available						689	797	948
Pressure drop		kPa	n.a.						26	33	45
Water connections	std	"	3 / 4						3 / 4		
	DF	"	not available						1 / 2		
Water content	std	dm ³							2,6		
	DF	dm ³	not available						0,9		

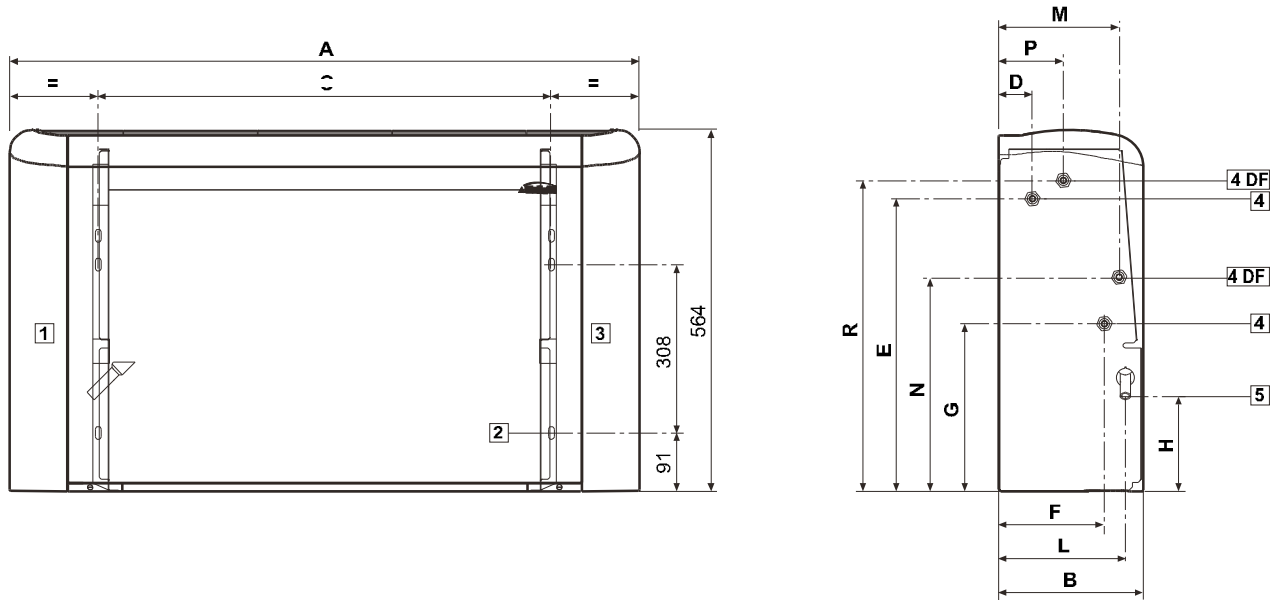
- 1 Water temperature 7-12°C, air temp. 27°C D.B., 19°C W.B. (47% R.H.)
- 2 Water temp. 50°C, water flow rate same as in cooling mode, air inlet temperature 20°C
- 3 Water temp. 70/60°C, air temp. 20°C
- 4 Sound power measured according to standards ISO3741 and ISO3742
- 5 Sound pressure level measured at a distance of 1 m with a directivity factor of 4

Performances of ESTRO 1.2 fan coil units are certified by EUROVENT



Overall dimensions of FL, wall-mounted with cabinet, vertical air flow

- 1 Clearance for water connections
- 2 Slots for installation on the wall
- 3 Clearance for electrical connections
- 4 Standard heat exchanger water connection
- 4DF Water connection for 1-row additional heat exchanger model DF
- 5 Drain outlet

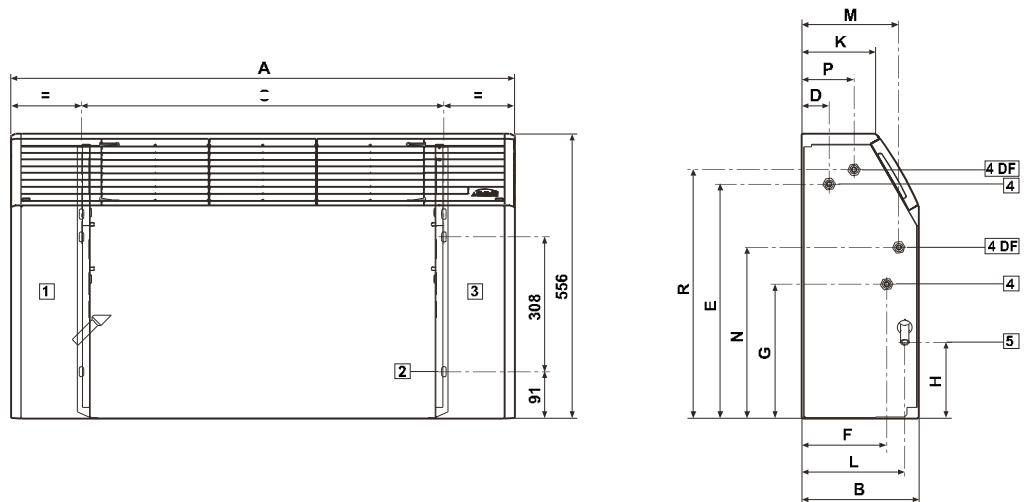


Dimensions in mm

	FL	A	B	C	D	E	F	G	H	L	M	N	P	R
1-4	774	226	498	51	458	163	263	149	198	187	335	99	486	
5-6	984	226	708	51	458	163	263	149	198	187	335	99	486	
7-9	1194	226	918	51	458	163	263	149	198	187	335	99	486	
95	1194	251	918	48	497	185	259	155	220	195	348	120	478	
10-11	1404	251	1128	48	497	185	259	155	220	195	348	120	478	
12	1614	251	1338	48	497	185	259	155	220	195	348	120	478	

Overall dimensions of FA, wall-mounted with cabinet, inclined front air flow

- 1 Clearance for water connections
- 2 Slots for installation on the wall
- 3 Clearance for electrical connections
- 4 Standard heat exchanger water connection
- 4DF Water connection for 1-row additional heat exchanger model DF
- 5 Drain outlet

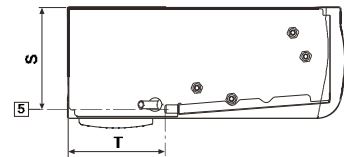
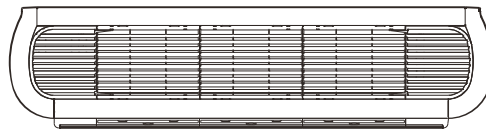
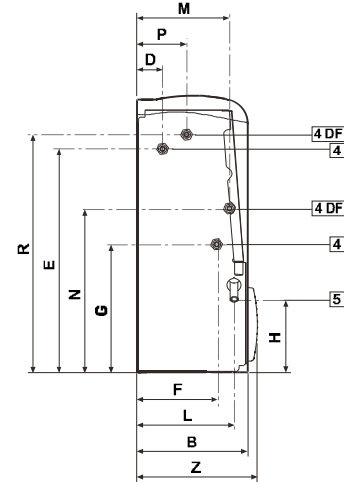
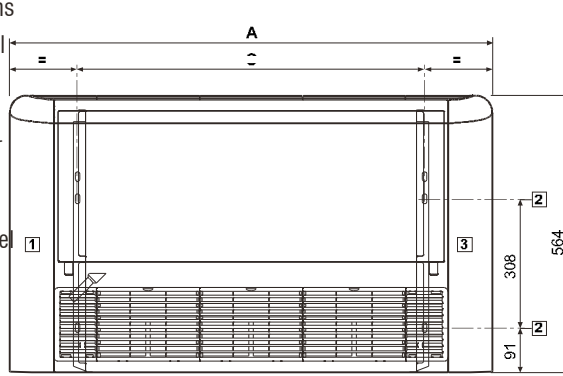


Dimensions in mm

	FA	A	B	C	D	E	F	G	H	K	L	M	N	P	R
1-4	774	228	498	53	458	166	263	149	145	201	189	334	102	486	
5-6	984	228	708	53	458	166	263	149	145	201	189	334	102	486	
7-9	1194	228	918	53	458	166	263	149	145	201	189	334	102	486	
10-11	1404	253	1128	50	497	188	259	155	170	223	196	348	121	478	
12	1614	253	1338	50	497	188	259	155	170	223	196	348	121	478	

Overall dimensions of FU, floor/ceiling mounted with cabinet, front air intake

- 1 Clearance for water connections
- 2 Slots for installation on the wall
- 3 Clearance for electrical connections
- 4 Standard heat exchanger water connection
- 4DF Water connection for 1-row additional heat exchanger model DF
- 5 Drain outlet

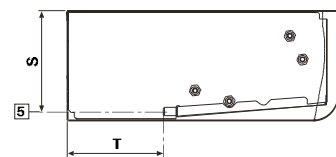
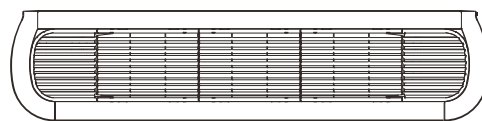
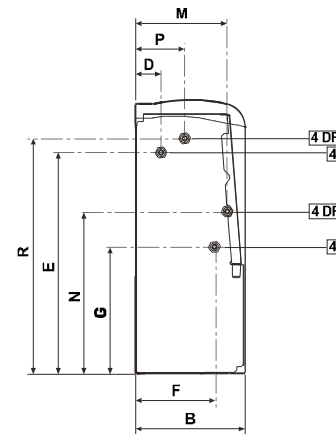
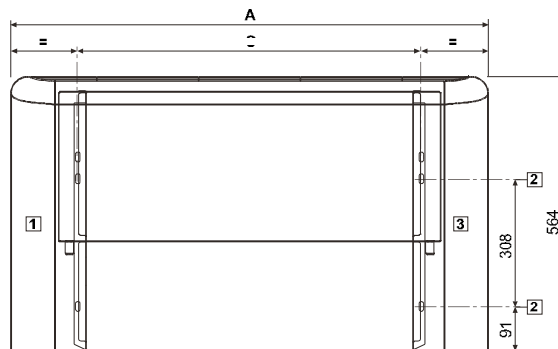


Dimensions in mm

FU	A	B	C	D	E	F	G	H	L	M	N	P	R	S	T	Z
1-4	774	226	498	51	458	163	263	149	198	187	335	99	486	208	198	246
5-6	984	226	708	51	458	163	263	149	198	187	335	99	486	208	198	246
7-9	1194	226	918	51	458	163	263	149	198	187	335	99	486	208	198	246
95	1194	251	918	48	497	185	259	155	220	195	348	120	478	234	208	271
10-11	1404	251	1128	48	497	185	259	155	220	195	348	120	478	234	208	271
12	1614	251	1338	48	497	185	259	155	220	195	348	120	478	234	208	271

Overall dimensions of FP, ceiling mounted with cabinet, rear air intake

- 1 Clearance for water connections
- 2 Slots for installation on the wall
- 3 Clearance for electrical connections
- 4 Standard heat exchanger water connection
- 4DF Water connection for 1-row additional heat exchanger model DF
- 5 Drain outlet

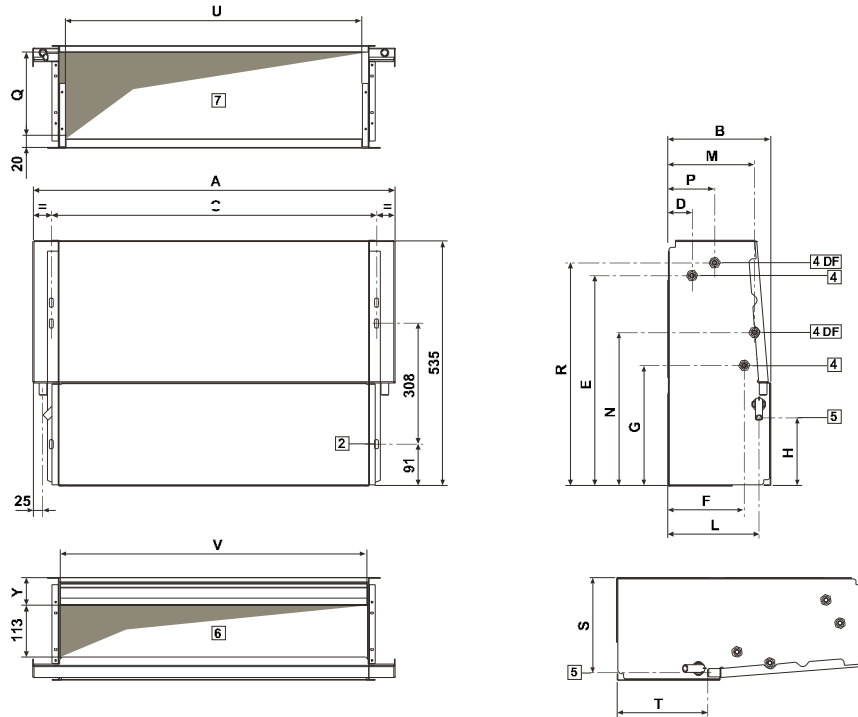


Dimensions in mm

FP	A	B	C	D	E	F	G	M	N	P	R	S	T
1-4	774	226	498	51	458	163	263	187	335	99	486	208	198
5-6	984	226	708	51	458	163	263	187	335	99	486	208	198
7-9	1194	226	918	51	458	163	263	187	335	99	486	208	198
95	1194	251	918	48	497	185	259	195	348	120	478	234	208
10-11	1404	251	1128	48	497	185	259	195	348	120	478	234	208
12	1614	251	1338	48	497	185	259	195	348	120	478	234	208

Overall dimensions of FC and FCP horizontal / vertical recess mounted, rear air intake

- 2 Slots for installation on the wall
- 4 Standard heat exchanger water connection
- 4DF Water connection for 1-row additional heat exchanger model DF
- 5 Drain outlet
- 6 Air outlet
- 7 Air intake

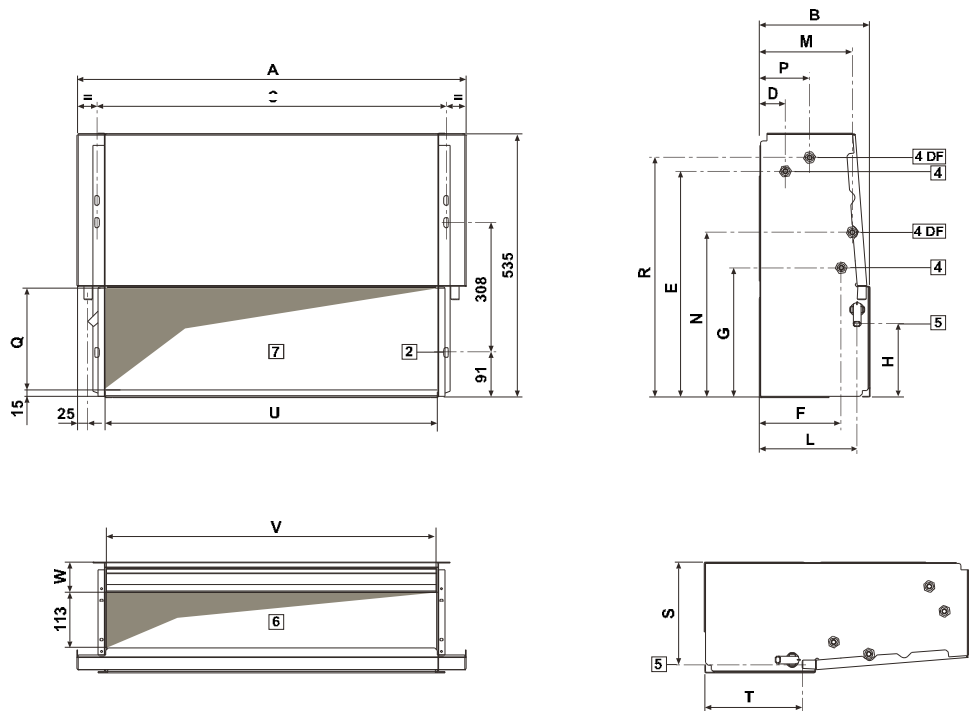


Dimensions in mm

FC	A	B	C	D	E	F	G	H	L	M	N	P	Q	R	S	T	U	V	Y
1-4	584	224	498	51	458	163	263	149	198	187	335	99	189	486	208	198	436	464	61
5-6	794	224	708	51	458	163	263	149	198	187	335	99	189	486	208	198	646	674	61
7-9	1004	224	918	51	458	163	263	149	198	187	335	99	189	486	208	198	856	884	61
95	1004	249	918	48	497	185	259	155	220	195	348	120	215	478	234	208	856	884	67
10-11	1214	249	1128	48	497	185	259	155	220	195	348	120	215	478	234	208	1066	1094	67
12	1424	249	1338	48	497	185	259	155	220	195	348	120	215	478	234	208	1276	1304	67

Overall dimensions of FF and FFP horizontal / vertical recess mounted, front air intake

- 2 Slots for installation on the wall
- 4 Standard heat exchanger water connection
- 4DF Water connection for 1-row additional heat exchanger model DF
- 5 Drain outlet
- 6 Air outlet
- 7 Air intake

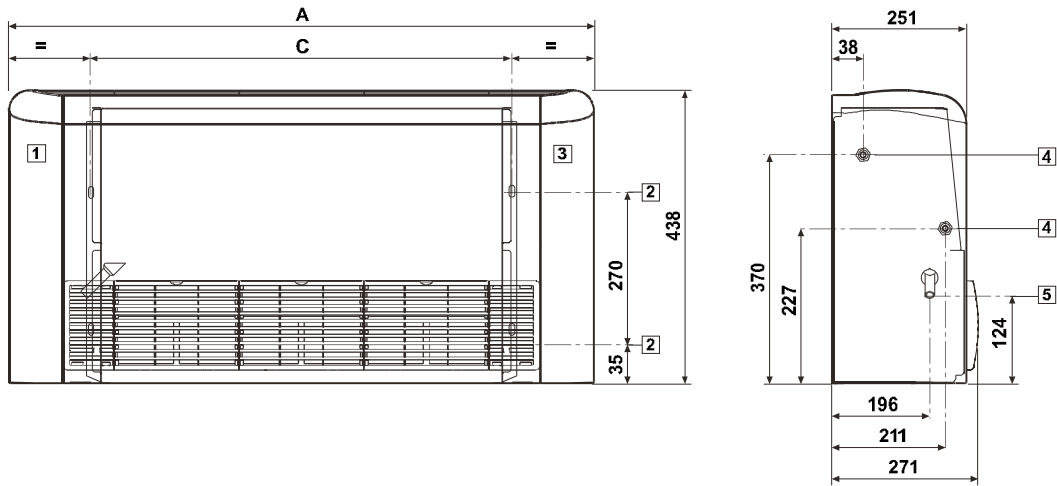


Dimensions in mm

FF	A	B	C	D	E	F	G	H	L	M	N	P	Q	R	S	T	U	V	W
1-4	584	224	498	51	458	163	263	149	198	187	335	99	210	486	208	198	436	464	61
5-6	794	224	708	51	458	163	263	149	198	187	335	99	210	486	208	198	646	674	61
7-9	1004	224	918	51	458	163	263	149	198	187	335	99	210	486	208	198	856	884	61
95	1004	249	918	48	497	185	259	155	220	195	348	120	215	478	234	208	856	884	67
10-11	1214	249	1128	48	497	185	259	155	220	195	348	120	220	478	234	208	1066	1094	67
12	1424	249	1338	48	497	185	259	155	220	195	348	120	220	478	234	208	1276	1304	67

Overall dimensions of FB, floor /ceiling mounted with low cabinet, front air intake

- 1 Clearance for water connections
- 2 Slots for installation on the wall
- 3 Clearance for electrical connections
- 4 Standard heat exchanger water connection
- 5 Drain outlet

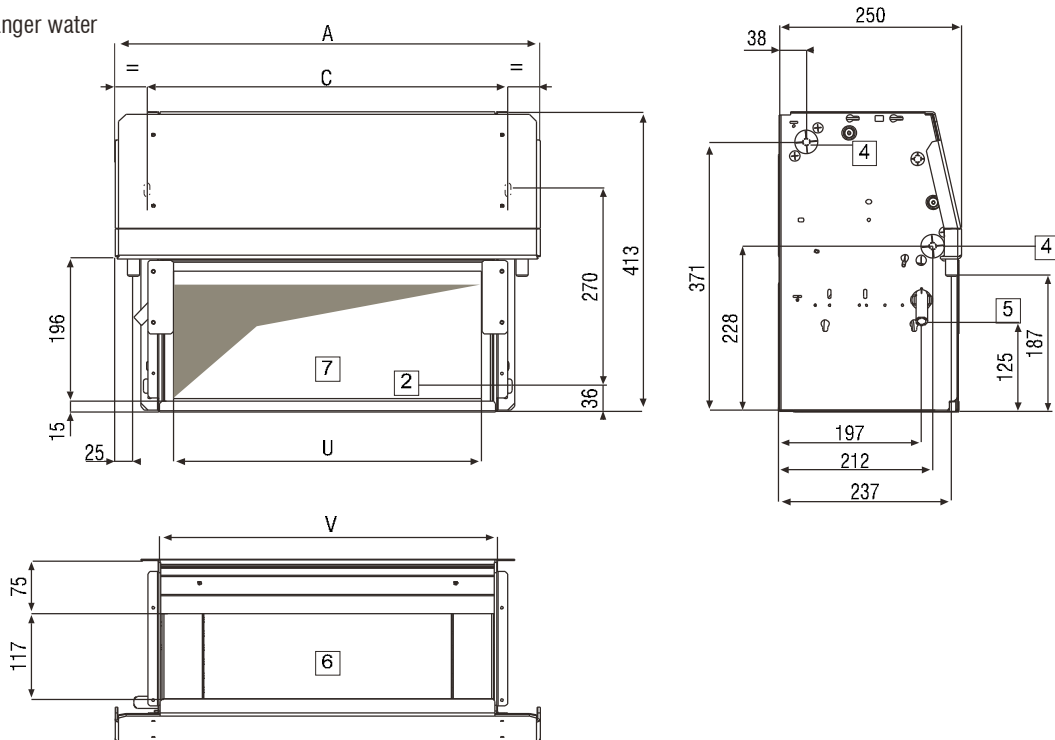


Dimensions in mm

FB	A	C
1 - 4	774	498
5 - 6	984	708
7 - 9	1194	918

Overall dimensions of FBC, low cabinet, horizontal / vertical recess mounted, front air intake

- 2 Slots for installation on the wall
- 4 Standard heat exchanger water connection
- 5 Drain outlet
- 6 Air outlet
- 7 Air intake



Dimensions in mm

FBC	A	C	U	V
1-4	584	498	423	464
5-6	794	708	633	674
7-9	1004	918	843	884