

Fan coil units with BLDC GreenTech technology

ESTRO GT 1 - 6 kW



The maximum expression of technology at the service of the hotel industry

GALLETTI's extensive experience in the manufacture of fan coil units and development of refined control logics was combined with the know-how of EBM-PAPST in the construction of fan drive assemblies in order to create ESTRO GT.

The ESTRO GT design was developed specifically for the hotel industry, where fan coil units represent the most convenient solution for air conditioning rooms given that they are efficient, reliable, quiet and simple to maintain.

With ESTRO GT it's almost like adding another star! ESTRO GT uses fan drive assemblies with GreenTech technology, which means BLDC motors directly integrated with the fan assembly and inverter and 70% reductions in electricity consumption compared to traditional AC motors. The low electricity consumption is the ideal solution for installations in hotels, where the fan coil unit is running 80% of the time on average.

The extremely low noise levels and the possibility of continuous modulation of the fan speed fully satisfy guests' needs in terms of flexibility of use and quiet operation. ESTRO GT fan coil units use MYCOMFORT LARGE and EVO microprocessor control panels, which, thanks to the analogue outputs and refined adjustment logics, perfectly control the operation of the BLDC motors and modulating valves.

A wide range of accessories completes the offerings for recessed ceiling installation.



PLUS

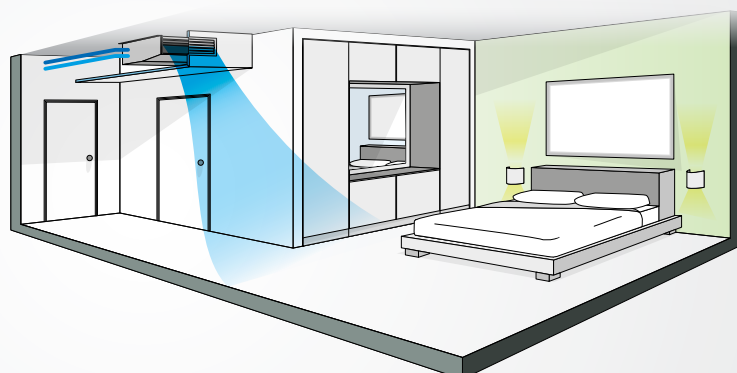
- ✓ GreenTech Technology
- ✓ Inverter-controlled BLDC motor
- ✓ Low energy consumption
- ✓ Modulating operation
- ✓ Extremely quiet operation
- ✓ Can be integrated into the ERGO
- ✓ Incorporable ioniser

AVAILABLE VERSIONS

- ESTRO GT FL** Wall mounted with cabinet
- ESTRO GT FA** Wall recess mounted with cabinet
- ESTRO GT CL** Wall mounted with cabinet
- ESTRO GT FU** Floor and ceiling mounted with cabinet

- ESTRO GT FP** Ceiling mounted with cabinet
- ESTRO GT FC** Vertical / horizontal recess mounted with rear air intake
- ESTRO GT FF** Vertical / horizontal recess mounted with front air intake

Thanks to the high efficiency and reliability guaranteed GreenTech technology, ESTRO GT reduces operating and maintenance costs while maintaining a top level of comfort and minimal noise.





MAIN COMPONENTS

Cabinet

Composed of a painted steel sheet panel, side panels, air outlet grille (swinging by 180°) and back suction grille built from ABS.

Structure

Built from galvanised steel sheet of extra thickness, heat and sound insulated by means of Class 1 self-extinguishing panels. FU – FC – FF versions are suitable for either vertical or horizontal installation thanks to the dual condensate collection and drainage system.

Heat exchanger

High efficiency heat exchanger made with copper piping and aluminium fins, provided with brass manifolds and vent valve. The water connections are reversible at the time of installation. On request it is possible to mount an additional heat exchanger for 4-pipe systems.

Air filter

Honey-comb polypropylene washable air filter, easily removable for maintenance operations. On FU version the air filters are fitted onto the air inlet grille.

Electric fan with GreenTech BLDC motor



ESTRO GT uses the exclusive GreenTech technology of EBM-PAPST. Permanent magnet BLDC motor with inverter integrated in the fan assembly, protection rating IP44, insulation class F and ball bearings. Polypropylene (PP) volute. Centrifugal fan with forward-curving blades made of glass-filled polyamide PA 6. Conformity with 2017 ErP Directive.



ACCESSORIES

Wall-mounted microprocessor electronic control panels

MCLE	MYCOMFORT LARGE electronic controller with display
KBE	Mycomfort on-board installation kit
DIST	Mycomfort controller spacer for wall mounting
MCSWE	Water sensor for EVO, MYCOMFORT and LED503 controller
MCSUE	Humidity sensor for EVO, MYCOMFORT MEDIUM and LARGE controller
EVODISP	EVO CLOCK Remote display
EVOBOARD	EVO 230V circuit board

Power interface and regulating louver controllers

CSB	On-board controller for opening and closing the motor-driven regulating louver
CSD	Recess mounted controller for opening and closing the SM motor-driven regulating louver

Additional heat exchanger for 4-pipe systems

DF	1-row additional heat exchanger for 4-pipe systems (not suitable for "M" models)
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Auxiliary water drip trays, insulating shell, condensate drainage pump

BV	Auxiliary water drip tray for vertical installation fan coil units
BH	Auxiliary water drip tray for horizontal installation fan coil units
GIVKR	Insulating shell for VK1S valve, water connections on the right
GIVKL	Insulating shell for VK1S valve, water connections on the left
KSC	Condensate drain kit

Support and covering elements

ZL	Pair of support covering elements for Estro FL GT
ZLG	Pair of support covering elements with front grille for Estro FL GT
ZA	Pair of support covering elements for Estro FA GT
ZAG	Pair of support covering elements with front grille for Estro FA GT
ZC	Pair of support covering elements for Estro CL GT
ZCG	Pair of support covering elements with front grille for Estro CL GT
D	Supports for Estro FC GT

Rear covering panels

PV	Painted rear panel for vertical installation models with cabinet
PH	Painted rear panel for horizontal installation models with cabinet

Grilles

GE+C	Aluminium external air intake grille, with subframe
GEF+C	Aluminium external air intake grille, with subframe and air filter
GM+C	Aluminium air outlet grille with 2-row fins and subframe
RGC	Plenum with circular collars for air outlet grille

Plenum and connectors

RM90	Angular outlet connector
RM90C	Angular outlet insulated connector
RMD	Straight outlet connector
RMCD	Straight outlet insulated connector
RA90	Angular inlet connector
RAD	Straight inlet connector
RMCD C	Air outlet plenum with circular collars
RAD C	Air inlet plenum with circular collars

External air intake louvers

S	Manual external air intake louver
SM	Motor-driven louver, with motor on the right with transformer
SM	Motor driven louver, with motor on the left, with transformer
SMC	Motor driven louver, with motor on the right, for centralised control
SMC	Motor driven louver, with motor on the left, for centralised control

Valves

	3-way valve, 230V actuator, hydraulic kit for standard heat exchanger
	3-way valve, 230V actuator, hydraulic kit for DF heat exchanger
VK	3-way valve, 24V actuator, hydraulic kit for standard heat exchanger
	3-way valve, 24V actuator, hydraulic kit for DF heat exchanger
	3-way valve, modulating actuator, hydraulic kit for standard heat exchanger
VKM	3-way valve, modulating actuator, hydraulic kit for DF heat exchanger
	3-way valve, 230V actuator, hydraulic kit on heat exchanger side for standard heat exchanger
	3-way valve, 230V actuator, hydraulic kit on heat exchanger side for DF heat exchanger
VK	3-way valve, 24V actuator, hydraulic kit on heat exchanger side for standard heat exchanger
	3-way valve, 24V actuator, hydraulic kit on heat exchanger side for DF heat exchanger
	3-way valve, modulating actuator, hydraulic kit on heat exchanger side for standard heat exchanger
VKM	3-way valve, modulating actuator, hydraulic kit on heat exchanger side for DF heat exchanger
	2-way valve, 230V actuator, hydraulic kit on water connection side for standard heat exchanger
	2-way valve, 230V actuators, hydraulic kit on water connection side for standard and DF heat exchanger
KV	2-way valve, 24V actuator, hydraulic kit on water connection side for standard heat exchanger
	2-way valve, 24V actuator, hydraulic kit on water connection side for standard and DF heat exchanger
	2-way valve, modulating actuator, hydraulic kit on water connection side for standard heat exchanger
KVM	2-way valve, modulating actuator hydraulic kit on water connection side for standard and DF heat exchanger

Rated technical data

ESTRO GT		1			3			4			4M		
Fan speed		min	med	max	min	med	max	min	med	max	min	med	max
Control voltage	V	2,1	2,5	3,0	2,8	3,7	5,1	2,8	3,7	5,1	2,8	3,7	5,1
Total cooling capacity (1) (E)	kW	0,77	0,92	1,15	1,26	1,52	1,74	1,36	1,70	1,96	1,50	1,85	2,24
Sensible cooling capacity (1) (E)	kW	0,59	0,70	0,87	0,95	1,14	1,30	1,00	1,24	1,42	1,06	1,32	1,60
Water flow (1)	l/h	132	158	197	216	261	299	234	292	337	258	317	384
Water pressure drop (1) (E)	kPa	4	5	7	8	11	14	6	9	12	10	14	20
Heating capacity (2) (E)	kW	1,11	1,30	1,55	1,71	2,04	2,20	1,78	2,16	2,55	1,83	2,26	2,74
Water pressure drop (2) (E)	kPa	3	4	6	7	9	12	5	8	10	8	11	16
Heating capacity (3)	kW	1,94	2,27	2,68	2,93	3,50	3,74	3,04	3,67	4,35	3,08	3,80	4,62
Water flow (3)	l/h	171	199	235	257	307	329	267	322	382	270	333	405
Water pressure drop (3)	kPa	4	6	8	8	11	13	6	8	11	8	12	16
Air flow	m ³ /h	149	189	231	211	271	344	211	271	344	211	271	344
Power input (E)	W	5	6	8	7	10	16	7	10	16	7	10	16
Sound power level (4) (E)	dB/A	30	32	40	38	44	49	40	44	50	41	45	51
Additional coil heating capacity DF (3) (E)	kW	1,35	1,50	1,70	1,56	1,78	2,02	1,56	1,78	2,01	not available		
Water flow (3)	l/h	118	132	149	137	156	177	137	156	176	not available		
Water pressure drop (3) (E)	kPa	3	4	4	5	7	8	5	6	7	not available		

ESTRO GT		5			6			6M			7		
Fan speed		min	med	max	min	med	max	min	med	max	min	med	max
Control voltage	V	2,5	3,9	5,4	2,5	3,9	5,4	2,5	3,9	5,4	2,5	3,6	5,7
Total cooling capacity (1) (E)	kW	1,60	2,03	2,42	1,76	2,38	2,93	1,93	2,64	3,30	1,98	2,63	3,51
Sensible cooling capacity (1) (E)	kW	1,18	1,57	1,88	1,26	1,70	2,11	1,33	1,83	2,30	1,45	2,04	2,75
Water flow (1)	l/h	275	348	415	302	408	503	331	452	565	340	451	602
Water pressure drop (1) (E)	kPa	8	12	16	5	8	11	7	12	17	4	7	12
Heating capacity (2) (E)	kW	2,07	2,68	3,20	2,09	2,83	3,50	2,33	3,21	4,04	2,81	3,69	4,78
Water pressure drop (2) (E)	kPa	6	10	13	4	6	9	6	10	14	4	6	10
Heating capacity (3)	kW	3,52	4,57	5,47	3,52	4,76	5,89	3,91	5,39	6,79	4,83	6,34	8,21
Water flow (3)	l/h	308	401	480	308	417	517	343	473	595	424	556	720
Water pressure drop (3)	kPa	7	12	16	4	6	9	6	10	14	5	8	13
Air flow	m ³ /h	241	341	442	241	341	442	241	341	442	320	450	640
Power input (E)	W	5	9	14	5	9	16	5	9	14	6	9	19
Sound power level (4) (E)	dB/A	35	43	48	36	42	48	35	43	49	35	43	52
Additional coil heating capacity DF (3) (E)	kW	2,06	2,53	2,92	2,18	2,68	3,08	not available			3,21	3,96	4,80
Water flow (3)	l/h	181	222	257	191	235	270	not available			282	347	421
Water pressure drop (3) (E)	kPa	2	3	4	3	4	5	not available			10	14	20



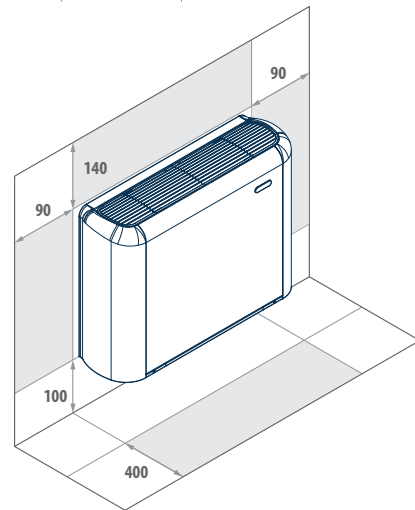
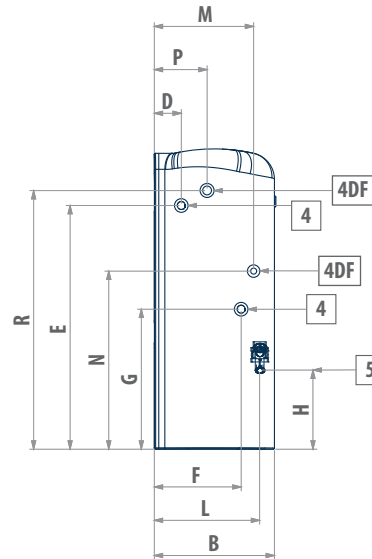
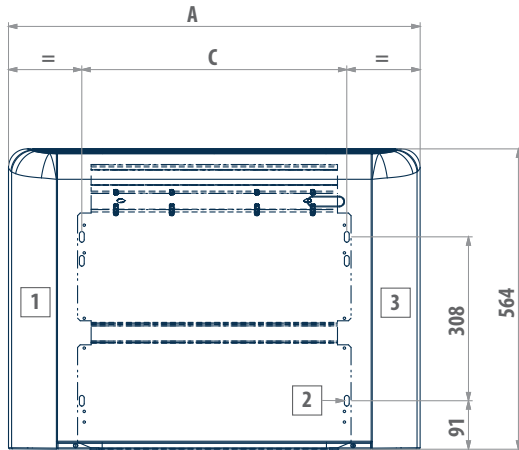
Rated technical data

ESTRO GT		8			9			9M		
Fan speed		min	med	max	min	med	max	min	med	max
Control voltage	V	2,8	4,1	6,5	3,8	5,3	7,6	3,8	5,3	7,6
Total cooling capacity (1) (E)	kW	2,51	3,27	4,33	3,00	3,66	4,51	3,52	4,37	5,40
Sensible cooling capacity (1) (E)	kW	1,80	2,45	3,15	2,23	2,82	3,53	2,47	3,07	3,82
Water flow (1)	l/h	431	561	743	515	628	774	605	750	927
Water pressure drop (1) (E)	kPa	5	8	12	7	10	14	11	16	24
Heating capacity (2) (E)	kW	2,98	3,90	5,10	3,93	4,84	5,91	4,24	5,24	6,47
Water pressure drop (2) (E)	kPa	4	6	10	6	8	12	9	13	19
Heating capacity (3)	kW	5,03	6,57	8,57	6,69	8,25	10,1	7,11	8,79	10,9
Water flow (3)	l/h	442	576	752	588	724	884	623	772	953
Water pressure drop (3)	kPa	4	6	10	7	10	14	9	13	19
Air flow	m ³ /h	361	497	706	470	605	785	470	605	785
Power input (E)	W	7	11	24	10	17	32	10	17	32
Sound power level (4) (E)	dB/A	35	43	53	43	49	56	44	50	57
Additional coil heating capacity DF (3) (E)	kW	3,11	3,67	4,36	4,04	4,65	5,30	not available		
Water flow (3)	l/h	273	322	382	355	408	465	not available		
Water pressure drop (3) (E)	kPa	11	14	19	6	8	10	not available		

- (1) Water temperature 7 / 12°C, air temperature D.B. 27°C, W.B. 19°C (47% relative humidity)
 (2) Inlet water temperature 50°C, water flow rate same as in cooling mode, air temperature 20°C
 (3) Water temperature 70 / 60°C, air temperature 20°C
 (4) Sound power measured according to standards ISO 3741 and ISO 3742
 (E) EUROVENT certified data
 Power supply 230-1-50 (V-ph-Hz)

Dimensional drawings

ESTRO GT FL - CL



LEGEND

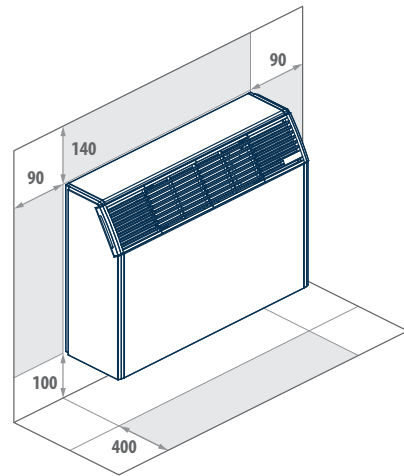
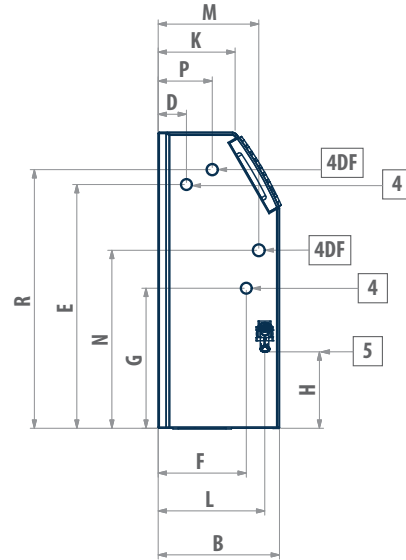
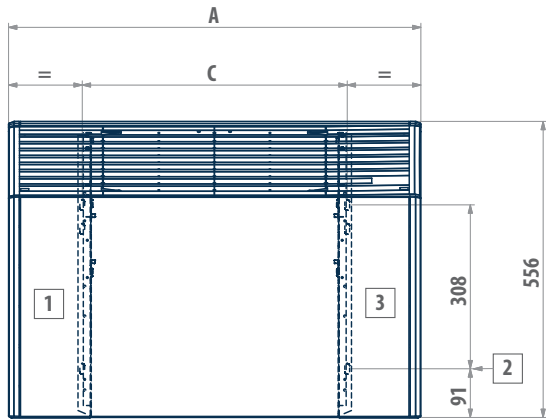
1	Usable space for plumbing connections
2	Slots for installation on the wall
3	Usable space for electrical connections
4	Standard heat exchanger water connections
4DF	DF 1-row DF additional heat exchanger water connections
5	Condensate drainage

ESTRO GT FL	ESTRO GT CL	A	B	C	D	E	F	G	H	L	M	N	P	R	4	4DF	5
1-4M	1-4M	774	226	498	51	458	163	263	149	198	187	335	99	486	1/2"	1/2"	16
5-6M	5-6M	984	226	708	51	458	163	263	149	198	187	335	99	486	1/2"	1/2"	16
7-9M	7-9M	1194	226	918	51	458	163	263	149	198	187	335	99	486	1/2"	1/2"	16



Dimensional drawings

ESTRO GT FA



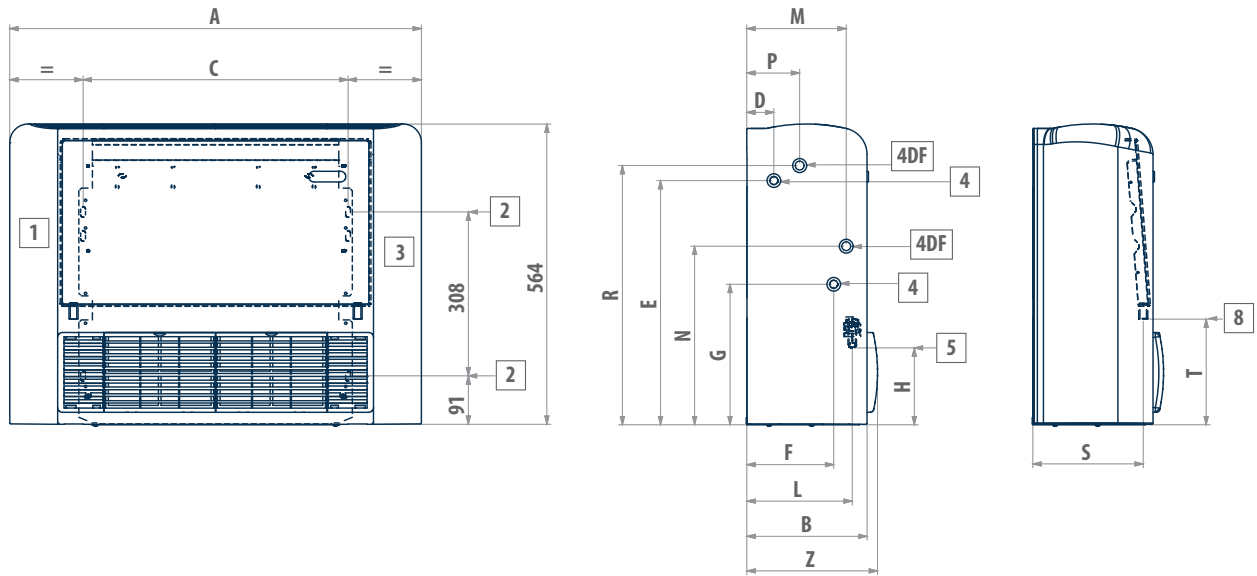
LEGEND

1	Usable space for plumbing connections
2	Slots for installation on the wall
3	Usable space for electrical connections
4	Standard heat exchanger water connections
4DF	DF 1-row DF additional heat exchanger water connections
5	Condensate drainage

ESTRO GT FA	A	B	C	D	E	F	G	H	K	L	M	N	P	R	4	4DF	5
1 - 4M	774	228	498	53	458	166	263	149	145	198	187	335	99	486	1/2"	1/2"	16
5 - 6M	984	228	708	53	458	166	263	149	145	198	187	335	99	486	1/2"	1/2"	16
7 - 9M	1194	228	918	53	458	166	263	149	145	198	187	335	99	486	1/2"	1/2"	16

Dimensional drawings

ESTRO GT FU



LEGEND

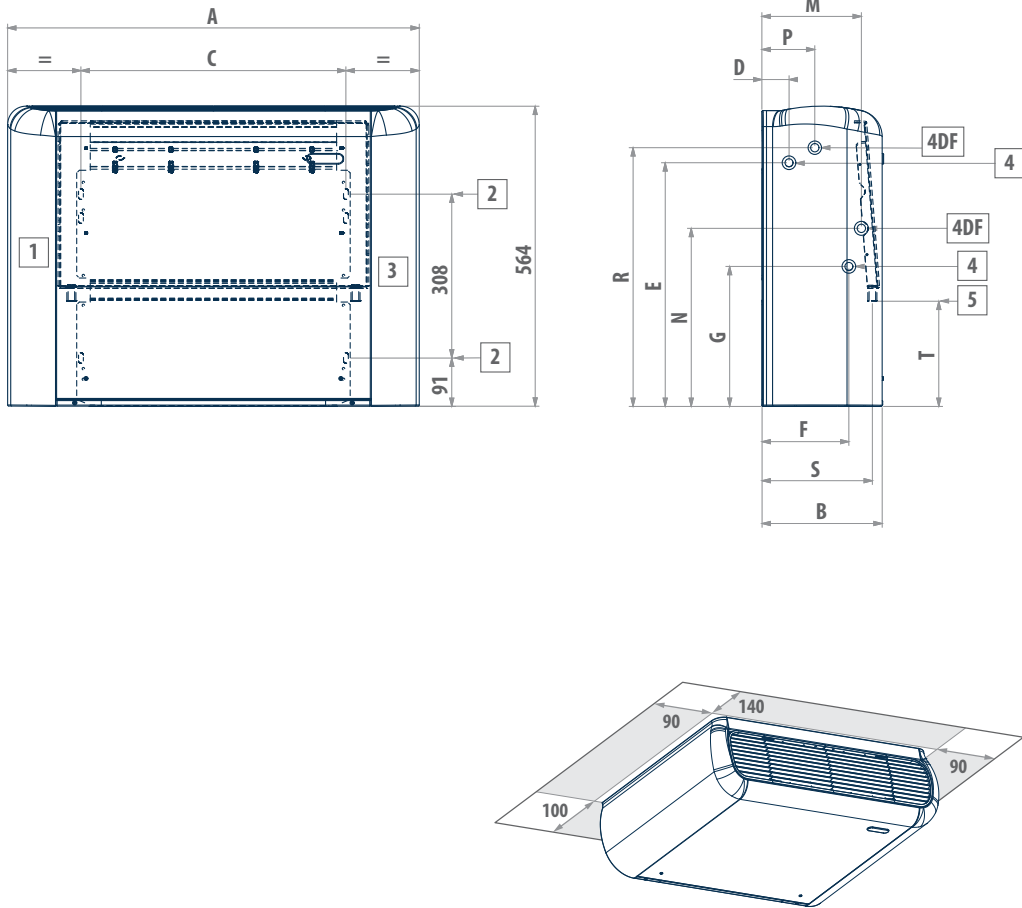
1	Usable space for plumbing connections
2	Slots for installation on the wall
3	Usable space for electrical connections
4	Standard heat exchanger water connections
4DF	DF 1-row DF additional heat exchanger water connections
5	Condensate drainage

ESTRO GT FU	A	B	C	D	E	F	G	H	L	M	N	P	R	S	T	Z	4	4DF	5
1-4M	774	226	498	51	458	163	263	149	198	187	335	99	486	208	198	246	1/2"	1/2"	16
5-6M	984	226	708	51	458	163	263	149	198	187	335	99	486	208	198	246	1/2"	1/2"	16
7-9M	1194	226	918	51	458	163	263	149	198	187	335	99	486	208	198	246	1/2"	1/2"	16



Dimensional drawings

ESTRO GT FP



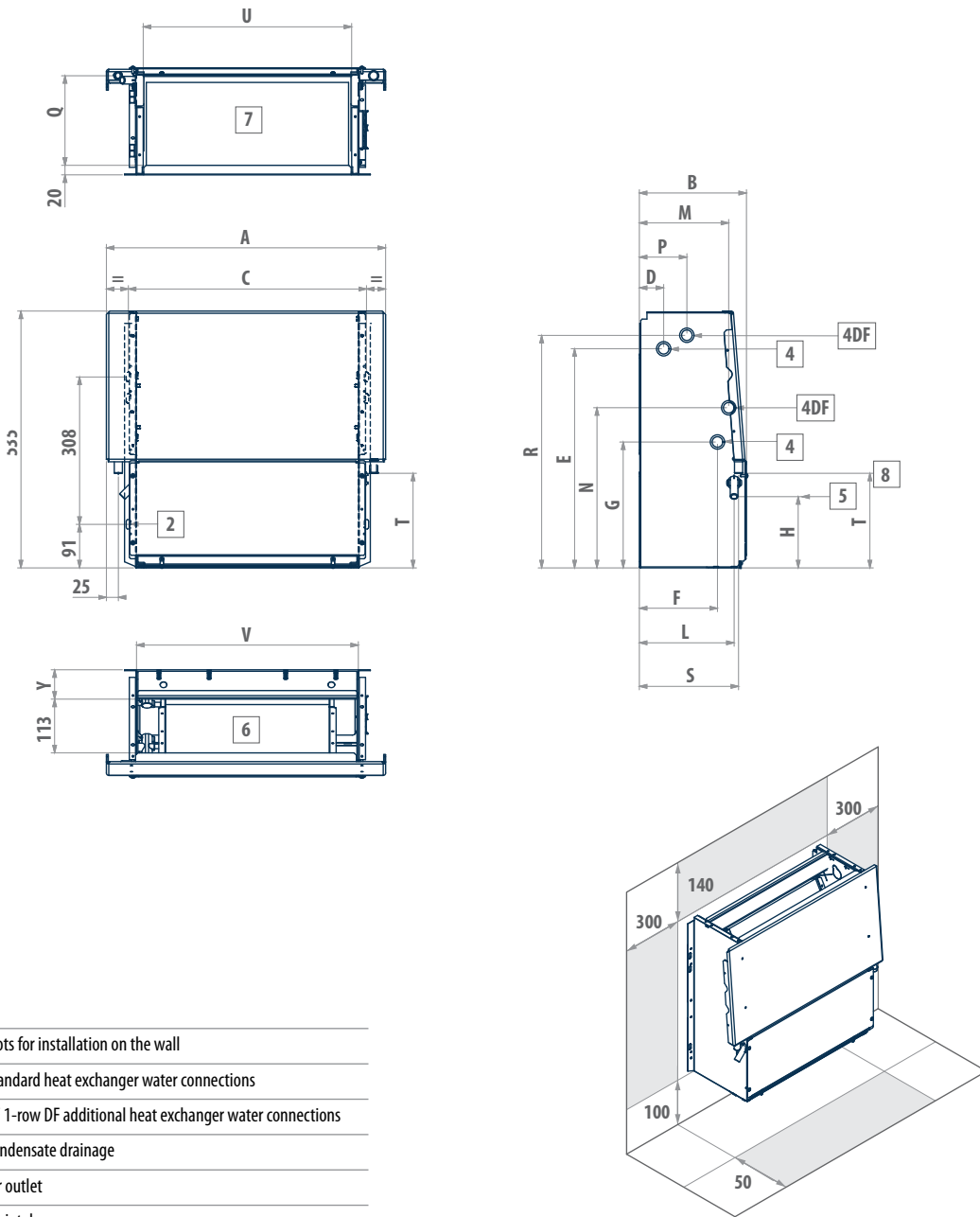
LEGEND

1	Usable space for plumbing connections
2	Slots for installation on the wall
3	Usable space for electrical connections
4	Standard heat exchanger water connections
4DF	DF 1-row DF additional heat exchanger water connections
5	Condensate drainage

ESTRO GT FP	A	B	C	D	E	F	G	M	N	P	R	S	T	4	4DF	5
1 - 4M	774	226	498	51	458	163	263	187	335	99	486	208	198	1/2"	1/2"	16
5 - 6M	984	226	708	51	458	163	263	187	335	99	486	208	198	1/2"	1/2"	16
7 - 9M	1194	226	918	51	458	163	263	187	335	99	486	208	198	1/2"	1/2"	16

Dimensional drawings

ESTRO GT FC



LEGEND

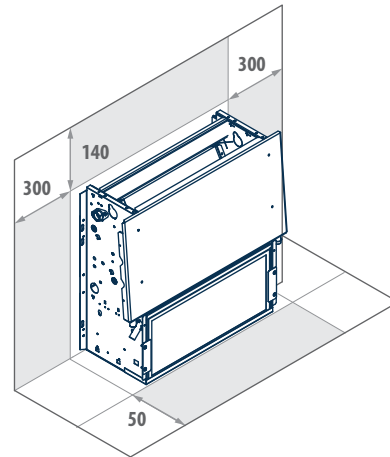
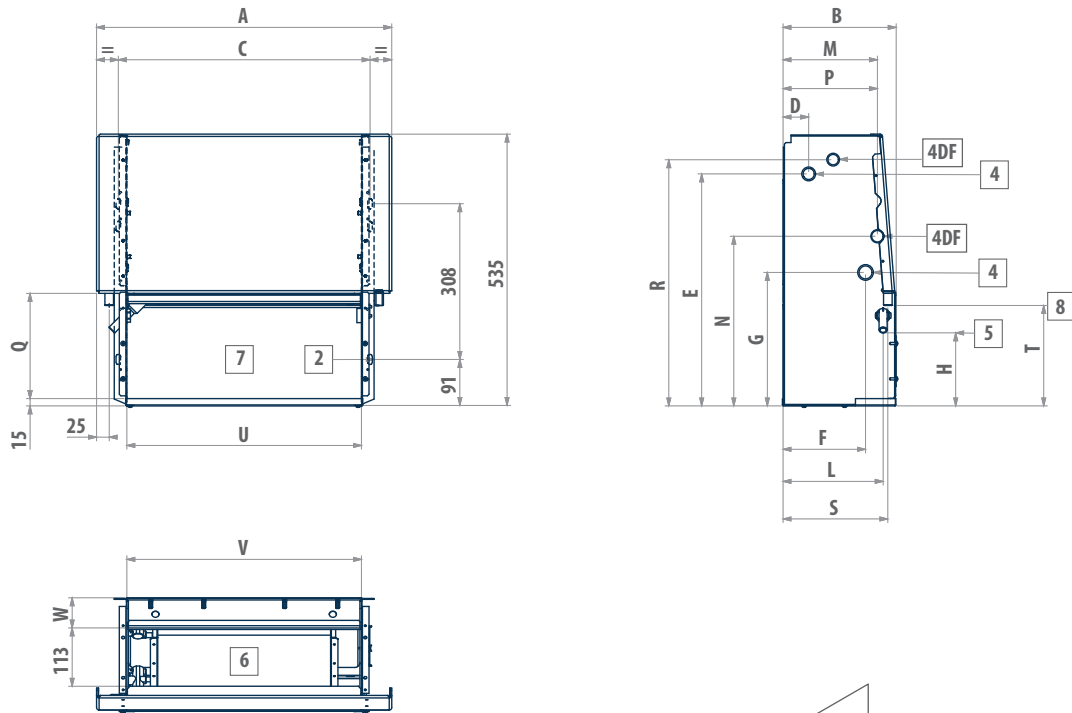
- | | |
|-----|---|
| 2 | Slots for installation on the wall |
| 4 | Standard heat exchanger water connections |
| 4DF | DF 1-row DF additional heat exchanger water connections |
| 5 | Condensate drainage |
| 6 | Air outlet |
| 7 | Air intake |

ESTRO GT FC	A	B	C	D	E	F	G	H	L	M	N	P	Q	R	S	T	U	V	Y	4	4DF	5
1 - 4M	584	224	498	51	458	163	263	149	198	187	335	99	189	486	208	198	436	464	61	1/2"	1/2"	16
5 - 6M	794	224	708	51	458	163	263	149	198	187	335	99	189	486	208	198	646	674	61	1/2"	1/2"	16
7 - 9M	1004	224	918	51	458	163	263	149	198	187	335	99	189	486	208	198	856	884	61	1/2"	1/2"	16



Dimensional drawings

ESTRO GT FF



LEGEND

2	Slots for installation on the wall
4	Standard heat exchanger water connections
4DF	DF 1-row DF additional heat exchanger water connections
5	Condensate drainage
6	Air outlet
7	Air intake

ESTRO GT FF	A	B	C	D	E	F	G	H	L	M	N	P	Q	R	S	T	U	V	Y	4	4DF	5
1-4M	584	224	498	51	458	163	263	149	198	187	335	99	189	486	208	198	436	464	61	1/2"	1/2"	16
5-6M	794	224	708	51	458	163	263	149	198	187	335	99	189	486	208	198	646	674	61	1/2"	1/2"	16
7-9M	1004	224	918	51	458	163	263	149	198	187	335	99	189	486	208	198	856	884	61	1/2"	1/2"	16