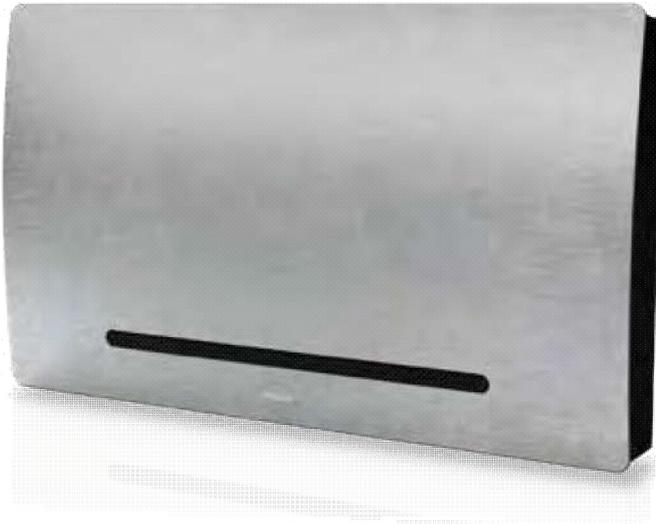


Design fan coil unit with a minimum depth of 10 cm only and BLDC motor

ART-U 1 - 4 kW



BLDC motor



Tangential fan



Supervision
GARDA



2 pipes
systems



Vertical
installation



Design-driven innovation

From the extensive experience of Galletti in the development and design of fan coil units, and in confirmation of its continuous search for innovation, ART-U was created, a perfect combination of performance and design. ART-U is a unique product that, on the one hand is able to meet the increasingly stringent demands for energy efficiency, while on the other hand it reflects, for the first time, the latest trends in furnishings and interior design. With its width, which in some places is only 10 cm, and thanks to its unique lines, it was designed to be an absolutely all-purpose product that adapts perfectly to rigorous and essential environments as well as to warmer and more sophisticated spaces. The achievement of extremely high aesthetic standards has not weakened the usual construction integrity of Galletti products: striving for innovation has, in fact, also focused on the components and the use of new materials. With ART-U the state of the art has been redefined also in terms of technical performance, thanks to the use of computational fluid dynamics simulations for the optimisation of the heat exchange inside the indoor unit combined with the use of permanent magnet electric motors.

It is the only innovative product that combines design, reduced width, and energy efficiency.

PLUS

- » A cabinet with an innovative design and width up to only 10 cm
- » Inverter-controlled BLDC motor
- » Low energy consumption
- » Complete customization of the front panel

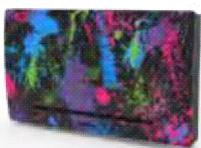


ART-U has received its first major international award: the prestigious Archiproduct Design Award 2019. ART-U won over the jury with its outstanding combination of performance and minimalist design.

ART-U Canvas: now it's up to you

Thanks to ART-U Canvas, a new level in indoor air conditioning is being achieved. A product that was already a unique offering in its field is now being further enhanced: ART-U is a versatile platform thanks to the complete customisation of the front panel. The fan coil panel becomes a veritable painter's canvas, ready to be customized by the interior architect. On ART-U Canvas any solid colour, image, or photograph can be reproduced. With ART-U Canvas there are no limits to creativity; now it's up to you to choose the perfect version of ART-U to blend in stylistically with the space to be air-conditioned.

AVAILABLE VERSIONS



ART-U Canvas

Front panel with fully customisable graphics with solid colours, images, and photographs.



ART-U Colour

Aluminium front panel available in the following colours white RAL9010, red RAL3020, and black RAL9005.



ART-U Grey

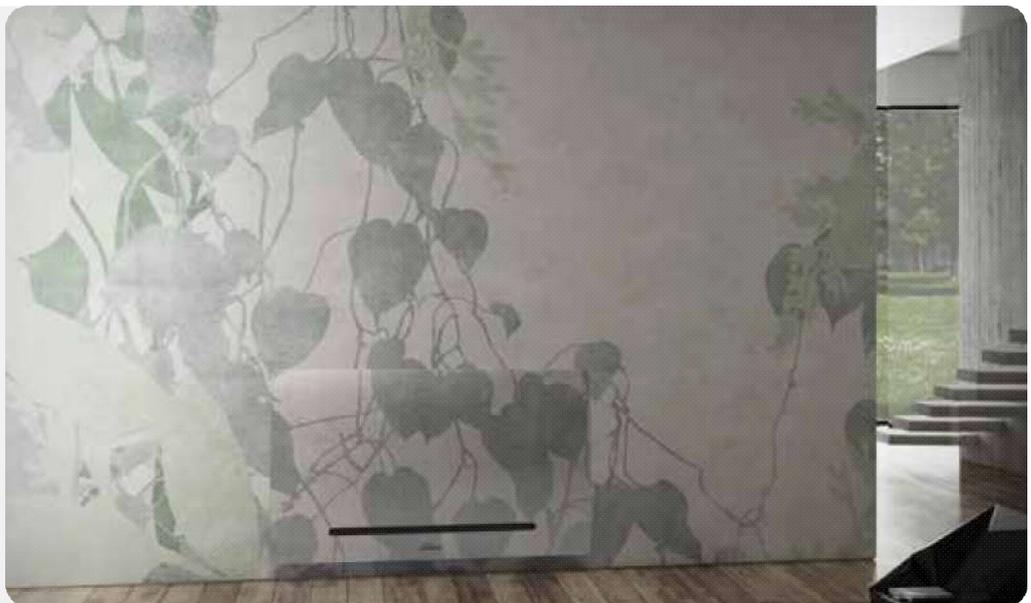
Front panel made of brushed natural aluminium.

ART-U CANVAS

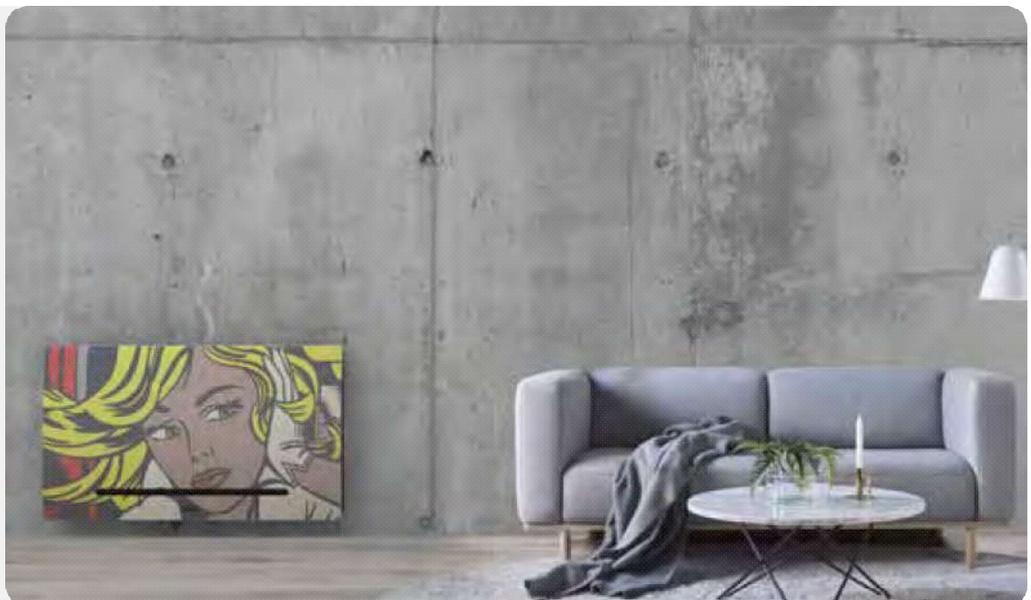
ART-U becomes a platform that can be customised according to the suggestions of the interior architect. The front panel colour can be selected from over 3000 colour variations offered by the RAL and PANTONE colour charts.



A further degree of freedom is provided by the possibility of reproducing geometric textures and wallpaper graphics to camouflage the fan coil in the space where it is installed.



With ART-U Canvas there are no limits to creativity. The possibility of customising the panel with images and photographs makes this fan coil a true furnishing accessory.



Fan coil - ART-U

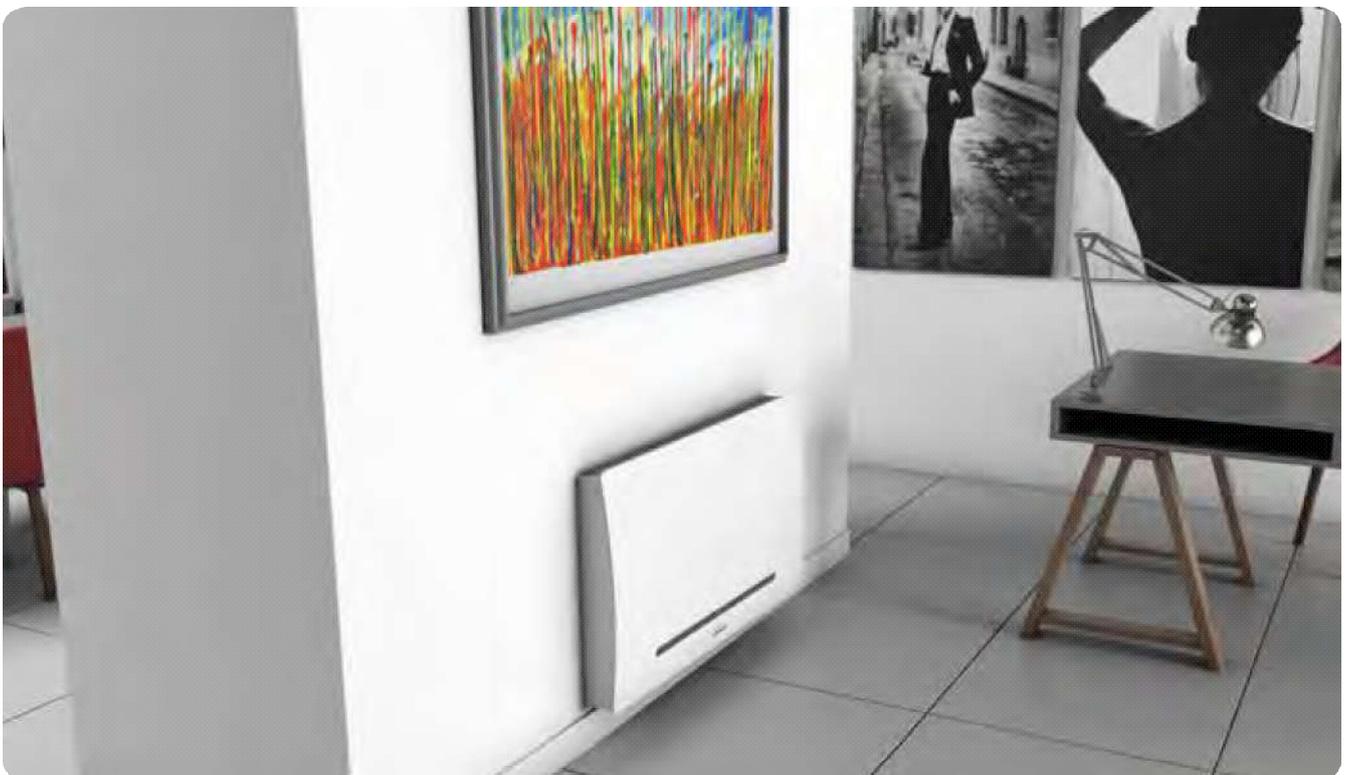
Fan coil ART-U

AVAILABLE VERSIONS



ART-U Grey

The use of a natural brushed aluminium front panel combined with black side panels enhances the absolute elegance of this unique fan coil and its reduced width. This product, with its simple, clean, and essential lines, adapts perfectly to spaces where furnishings follow the latest trends and where a high level of design is required for each item.



ART-U White

The neutrality of the white ensures maximum integration with the space in an adaptive context, allowing the fan coil unit to almost disappear into the wall.

AVAILABLE VERSIONS



ART-U Red

Thanks to the refined and elegant lines of this product, even a strong and decisive colour like red actually further enhances the unique personality of ART-U and turns it into a true furnishing classic.

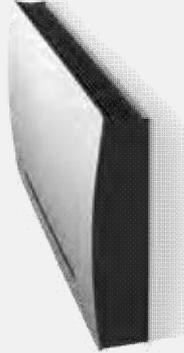


ART-U Black

The unique black colour solution allows the fan coil to blend into the surrounding space, providing a touch of absolute elegance.

MAIN COMPONENTS
Cabinet with a refined design

The elegant front panel consists of two sheets of aluminium with a polyethylene core and possibly a polyester-based surface coating. It is a light but very resistant material, created for covering façades in the building sector. The side panels are made of UV-stabilized ABS to maintain the colour over time. The polyethylene core acts as a flexible filler and thermal insulation while the aluminium provides structural strength and aesthetics.


Conveyors

Made of high-density polystyrene and ABS. They are designed to optimise the air flow inside the hydronic indoor unit allowing optimal distribution of the air flow in the coil and low noise in every operating mode.

Upper grille

Consisting of adjustable fins made of anodised aluminium, available in the version for on-board or wall-mounted control. The ABS combs support the grilles and prevent them from being bent, thus always guaranteeing the user's safety.


Front grille

Designed to stabilize the operation of the tangential fan unit and is equipped with a stainless steel filter.


Electric motor

Permanent magnet BLDC motor with inverter integrated in the ventilation unit. An IP44, protection rating is guaranteed; therefore, dust inside is avoided and resistance to water spray is guaranteed. The manufacturer's certification makes it suitable also for outdoor applications.


Tangential fans

Tangential fan, statically and dynamically balanced to reduce its noise during operation. The plastic material used for the blades guarantees, in comparison with metal fans, a reduction in vibrations and an absence of bending along the rotation axis. The blades are alternated with intermediate reinforcement disks in order to increase their sturdiness.

Heat exchangers

With a high efficiency turbocoil-type heat exchanger, and made with copper tubing and aluminium fins, it is equipped with brass manifolds and a vent valve. The hydrophilic treatment is applied to the fins as a standard treatment, to increase their efficiency during cooling and at the same time a greater resistance to aggressive atmospheres.


Air filter

Honey-comb polypropylene washable air filter, easily removable for maintenance operations.

RATED TECHNICAL DATA

ART-U			10				20				30			
Speed			1	2	3	4	1	2	3	4	1	2	3	4
Control voltage		V	2,00	5,50	7,00	10,0	2,00	5,50	7,00	10,0	2,00	5,50	7,00	10,0
Total cooling capacity	(1)	kW	0,31	0,71	0,84	1,08	0,58	1,15	1,41	1,76	0,66	1,63	1,97	2,44
Sensible cooling capacity	(1)	kW	0,29	0,49	0,62	0,91	0,68	0,98	1,26	1,36	1,04	1,43	1,82	1,78
FCEER class			C				C				B			
Water flow	(1)	l/h	53	122	145	185	100	198	242	303	113	280	339	418
Water pressure drop	(1)	kPa	1	4	5	8	2	6	9	13	2	12	17	24
Heating capacity	(2)	kW	0,29	0,82	1,05	1,40	0,59	1,33	1,60	1,98	0,67	1,78	2,15	2,65
FCCOP class			C											
Water flow	(2)	l/h	51	143	183	243	169	238	303	345	117	310	374	461
Water pressure drop	(2)	kPa	1	4	6	11	2	7	10	14	2	12	17	24
Rated air flow		m ³ /h	40	148	207	312	82	224	287	389	91	302	392	529
Power input		W	4	7	9	14	4	10	12	17	5	11	15	24
Total sound power level	(3)	dB(A)	28	41	46	54	28	41	47	54	28	42	47	54

ART-U			40				50			
Speed			1	2	3	4	1	2	3	4
Control voltage		V	2,00	5,50	7,00	10,0	2,00	5,50	7,00	10,0
Total cooling capacity	(1)	kW	0,76	1,84	2,37	3,12	0,92	2,32	2,89	3,69
Sensible cooling capacity	(1)	kW	1,42	1,95	2,39	2,33	1,72	2,15	2,77	2,77
FCEER class			B							
Water flow	(1)	l/h	131	315	406	535	157	398	496	634
Water pressure drop	(1)	kPa	2	12	18	29	3	13	19	29
Heating capacity	(2)	kW	0,74	1,99	2,49	3,21	0,95	2,56	3,16	4,02
FCCOP class			C				B			
Water flow	(2)	l/h	128	347	433	559	165	446	550	698
Water pressure drop	(2)	kPa	2	11	17	26	2	13	19	28
Rated air flow		m ³ /h	104	363	496	724	129	439	587	831
Power input		W	5	12	17	27	5	12	18	30
Total sound power level	(3)	dB(A)	31	42	47	54	32	42	47	54

(1) Water temperature 7°C / 12°C, air temperature dry bulb 27°C, wet bulb 19°C (47% relative humidity) according to EN1397:2015

(2) Water temperature 45°C / 40°C, air temperature 20°C

(3) Sound power measured according to standards ISO 3741 and ISO 3742

Power supply 230-1-50 (V-ph-Hz)

DIMENSIONAL DRAWINGS

