

ART-U

TECHNICAL DETAILS

ADVANCED
DESIGN
SOLUTIONS

Galletti
AIR CONDITIONING

ENGLISH
VERSION


© Jasmine Pappalardo

Galletti: Advanced Design Company.

Being an **Advanced Design Company** fits perfectly into the tradition of Made in Italy. Our approach to design starts from the needs of the customer, defining a "product system" that fully meets his expectations, with customization possibilities unique in the industry.

Evolving through **Open Innovation** further amplifies the scope of our creative process, enabling the involvement of a big network of external collaborators, experts and partners, with different ideas and skills. This **synergy** promotes a constant flow of **new perspectives** and **innovative solutions**, enriching our knowledge and allowing us to remain at the forefront of the **HVAC** industry.

This choice reflects a relationship-based approach and customer engagement in the **creative process, integrating desirability, technological innovation, business and sustainability.**
We are faced with a radical innovation, oriented to the exploration of possibilities, before even defining product specifications, following the principle of **Design Thinking**.

Ultimately, design is not only about aesthetics but above all about the relationship and we believe that this is the key to the success and future of the company.

Design-driven innovation for the comfort of interiors.

Galletti has always offered a wide range of hydronic indoor units for air conditioning systems with state-of-the-art technology, combining reliability and comfort. The great attention paid to technical standards, experience in development and design, and the constant pursuit of innovation have recently led the company to invest heavily in design. Thanks also to our collaboration with the Advanced Design Unit of the University of Bologna.

Galletti was the first to create a **new concept of hydronic indoor units**: no longer were they an element to be concealed, but a perfect fusion of **performance** and **aesthetics**. This innovative approach led to the creation of **ART-U**.

ART-U is the first design fan coil unit, available in various colour versions, with a brushed or matt aluminium panel, or with a customisable panel in the Canvas version.

archiproducts DESIGN AWARDS WINNER 2019 · reddot winner 2020 · BIGSEE PRODUCTDESIGN AWARD 2020 WINNER · ARCHITECTURE MASTERPRIZE · GOOD DESIGN · DESIGN INDEX ADI

Galletti's pursuit of innovation has already garnered major endorsements, winning over the judging panels of the most prestigious international industrial product design awards.

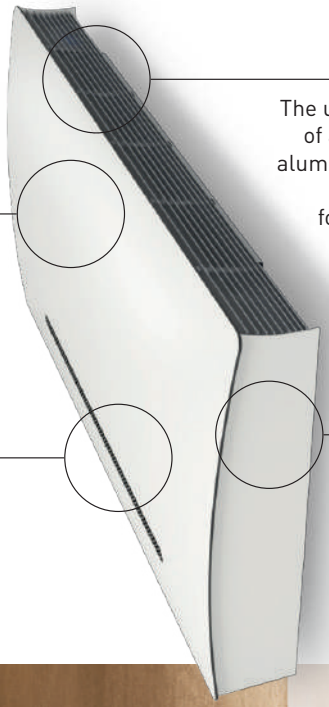


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ART-U
Fits perfectly

ART-U is the perfect fan coil for the perfect interior. Its versatility opens boundaries to **unique characterisations**, for solutions with great individuality. Air conditioning is now design-addicted thanks to Galletti's innovative fan coil, **up to 10 cm deep**.

Fan coil and environment in perfect harmony. Every colour is a new inspiration.



UPPER GRILLE

The upper grille consists of adjustable anodised aluminium fins, available in the versions for on-board or wall-mounted control.

FRONT PANEL

The elegant curved front panel consists of two aluminium sheets.

FRONT GRILLE

The steel front grille stabilizes the operation of the tangential fan unit.

SIDE PANELS

Made of UV-stabilized ABS.



© Studio Marco Podrini



© Studio Effetto

ART-U
Metallic skin

Technological innovation meets the clean, textured lines of the metal frame to satisfy the most elegant design requirements. A unique style, both minimalist and revolutionary at the same time, that you can touch, even with your eyes. Choose the ideal shade to bring life to seductive and exclusive settings.



ART-U GREY

Space for tech design. ART-U Grey, with its elegant front panel made of brushed natural aluminium, stands out in spaces where great ideas are born.
Step into the future of air conditioning.



ART-U WHITE

The essence of air conditioning. It can camouflage itself in a white wall, but it cannot hide its enviable performance.
The comfort of interiors, enhanced by design.



ART-U RED

Audacity, character, unmistakable style. ART-U Red is the furnishing element with high air conditioning performance that sets the tone in the most refined interiors. **The heart of the design beats strongly**.



ART-U BLACK

The Italian-made fan coil that does not fear imitations comes in a black version to give a touch of strong personality to the coolest spaces.
The emblem of elegance in comfort air conditioning.

COMPONENT	MATERIAL	COLOUR			
		GREY	WHITE	RED	BLACK
Front panel	Aluminum	Brushed natural	White RAL9010	Red RAL3020	Black RAL9005
Front grille	Steel	Black RAL9005	Natural	Black RAL9005	Black RAL9005
Side panels	ABS	Black RAL9005	White RAL9010	Black RAL9005	Black RAL9005
Upper grille	Aluminum	Black RAL9005	Natural	Black RAL9005	Black RAL9005



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ART-U CANVAS

We got to work.
A masterpiece was created.

Infinite styles concentrated in a soul with astonishing performance.

The front panel of ART-U Canvas becomes a veritable painter's canvas, ready to be customised with every kind of **colour, graphic, geometry, and photographic image.** An infinite choice of solutions dedicated to interior design experts to create **unique, unprecedented, and iconic spaces**.

With ART-U Canvas, innovation goes hand in hand with imagination. This **intelligent** fan coil with **astonishing capabilities** was created to rewrite the rules of design and inspire customisation extending far beyond its surface.

An inspiration that knows no boundaries.
You can choose between partial or total customisation of the panel.

The first fan coil with an innovative customisable front panel. Images, graphics, and RAL, Pantone, and RGB colour scales. Everything is possible with ART-U Canvas.

GRAPHIC SKIN

PARTIAL CUSTOMISATION OF THE SURFACE

Customise the front panel as you wish, without sacrificing the metallic finish. The graphics leave the metallic finish visible and noticeable, contrasting with the matt appearance of the image reproduced on the panel, resulting in exclusive and elegant customisation.



TOTAL GRAPHIC SKIN

CUSTOMISATION OF THE ENTIRE SURFACE

Achieve extreme levels of customisation by covering the entire front panel. Fully customisable in terms of colours and with any kind of graphics, geometry, or image: it is the fan coil designed to suit your imagination.



ART-U CREATOR

Using this online software you can give shape to your air conditioning design ideas. There is a product for every solution: configuring the style of your interiors has never been so easy.





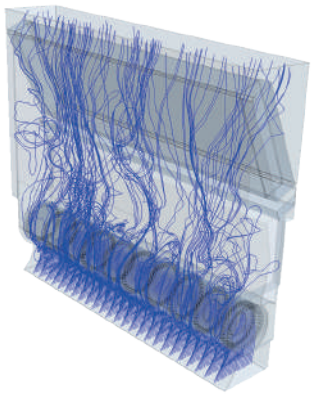
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TECHNOLOGY

The engine of innovation in a truly remarkable footprint.

CFD SIMULATIONS

In the design phase of ART-U, by means of Computational Fluid Dynamics (CFD) simulations, it has been possible to **improve heat exchange**, with a consequent **reduction in power consumption and noise emissions** with the same components and under the same operating conditions. In fact, in CFD simulations the swirling movement of the air inside the hydronic indoor unit has been reproduced. The study of the air motion field has allowed the **reduction of fluid recirculation downstream from the fan**, preventing unwanted pressure drops inside the fan coil. The research also focused on improving the air distribution along the longitudinal axis of the fan unit.



HEAT EXCHANGE COIL

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** while at the same time **providing greater resistance to aggressive environments**.

EC INVERTER MOTOR

The EC motor with inverter integrated in the fan assembly is standard on ART-U, ensuring **low power consumption.**
The energy savings and resulting reduction in CO2 emissions, in comparison to conventional 3-speed AC motors, exceed 70% in seasonal operation.



EXCEPTIONALLY QUIET OPERATION

The most frequent situation in the seasonal operation of a fan coil is the one with partial loads where the effective air flow rate is lower than the maximum. It is under these conditions that it is important to assess the acoustic impact of the indoor unit in the air-conditioned space. The sound power of ART-U at the minimum operating voltage of its inverter never exceeds 32 dB(A), thus allowing the fan coil to be **used even in the most demanding residential areas or hospitality facilities**. In fact, one of ART-U's advantages is its **low noise level**, an essential requirement for installation in bedrooms where it is recommended that sound power not exceed 40 dB(A) in order not to disturb sleep.



ART-U
Controls



CONTROLLERS AND SOFTWARE FOR INTELLIGENT AIR CONDITIONING MANAGEMENT.

Room comfort is guaranteed effectively and intuitively by the **adjustment software** developed by Galletti. Air temperature and humidity control is quick and precise through the use of advanced microprocessor controls that allow **immediate interaction with the fan coil.**

EVO

Advanced adjustment solutions.

EVO encompasses the best of Galletti adjustment with regard to hydronic indoor units. It has an **intuitive interface** designed to manage the control software and is easy to install, even directly on ART-U. Now also EVO-2-TOUCH is available, the user interface equipped with a 2.8" touch screen, which ensures **ease of use for quick temperature and humidity comfort**, with frame available in 4 colours. The evolution is completed with the GALLETTI APP to control all fan coil functions via mobile devices.



Colours available



The tap and swipe functions make the EVO-2-TOUCH control experience similar to that of your smartphone.

© Filippo Petrucci





© Filippo Petrucci

EVO LINK

WEB SERVER MONITORING SOFTWARE FOR AIR CONDITIONING SYSTEMS.

To provide a **supervision package** that is both intuitive and powerful, **Evo Link** was developed: Galletti monitoring in a convenient all-in-one format. Evo Link is an elegant but unobtrusive 5" wall-mounted tablet that contains everything necessary for monitoring a small system.

With Evo Link, a heat pump and **up to 30 indoor units can be controlled with Evo controls**, using cool, intuitive graphics. With Evo Link, monitoring has never been easier: setting time slots, scheduled switching on or off, or changing your units' setpoints will be quick and convenient.



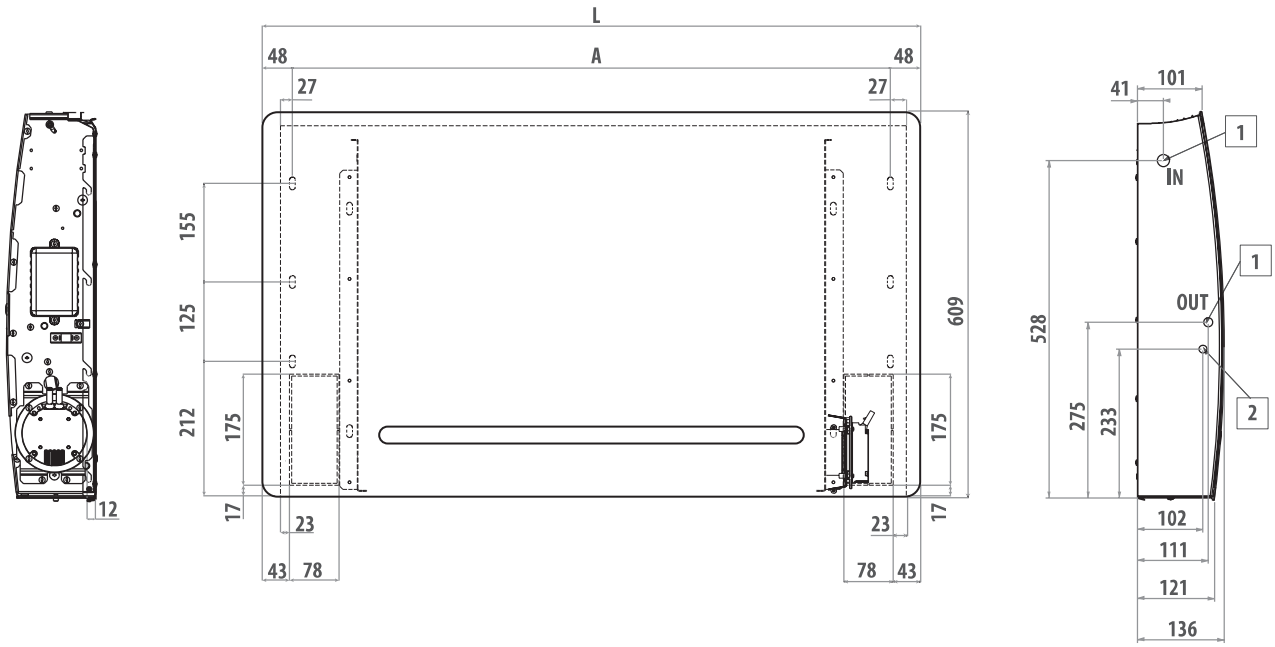
ART-U			10				20				30			
Speed			1	2	3	4	1	2	3	4	1	2	3	4
Input voltage		V	2,00	5,50	7,00	10,0	2,00	5,50	7,00	10,0	2,00	5,50	7,00	10,0
Total cooling capacity	(1)	kW	0,31	0,71	0,84	1,08	0,58	1,15	1,41	1,76	0,66	1,63	1,97	2,44
Sensible cooling capacity	(1)	kW	0,21	0,56	0,69	0,91	0,41	0,89	1,08	1,36	0,46	1,18	1,44	1,78
FCEER class			C				C				B			
Water flow	(1)	l/h	53	122	145	185	100	198	242	303	113	280	339	418
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				C				C			
Water flow	(2)	l/h	51	143	183	243	103	231	278	345	117	310	374	461
Pressure drop	(2)	kPa	1	4	6	11	2	7	10	14	2	12	17	24
Air flow rate		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

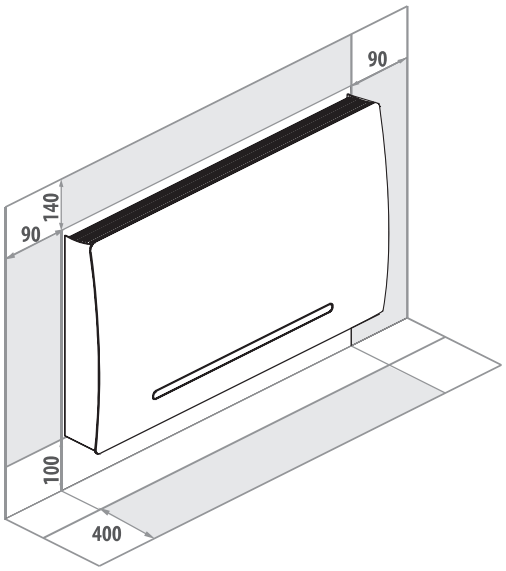
ART-U			40				50			
Speed			1	2	3	4	1	2	3	4
Input voltage		V	2,00	5,50	7,00	10,0	2,00	5,50	7,00	10,0
Total cooling capacity	(1)	kW	0,76	1,84	2,37	3,12	0,92	2,32	2,89	3,69
Sensible cooling capacity	(1)	kW	0,53	1,38	1,77	2,33	0,65	1,72	2,15	2,77
FCEER class			B				B			
Water flow	(1)	l/h	131	315	406	535	157	398	496	634
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
Pressure drop	(2)	kPa	2	11	17	26	2	13	19	28
Air flow rate		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 7-12 °C, air temperature 27 °C dry bulb, 19 °C wet bulb (47 % relative humidity) expressed according to EN 1397:2015
(2) Water temperature 45-40 °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)

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com





LEGEND

1 - Female water connections, standard coil ø 1/2"
2 - Diameter of drain outlet for vertical installation ø 17 mm

ART-U	H	L	WEIGHT
	mm	mm	kg
10	616	711	12
20	772	867	14
30	941	1036	17
40	1173	1268	19
50	1307	1402	21

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

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