



Fan coil unit with Design cabinet, only 10 cm of minimum depth and EC motor

ART-U 1 - 4 kW



EC Motor



Tangential fan



2 pipes systems



Vertical installation

PLUS

- » A furnishing with an innovative design and width up to only 10 cm
- » Inverter-controlled EC motor
- » Low energy consumption



reddot winner 2020



BIGSEE
PRODUCT DESIGN
AWARD 2020
WINNER



ARCHITECTURE
MASTERPRIZE



Design Contest

Its evolution has just begun but has already received important acknowledgment, winning over the judging panels of the most prestigious international industrial product design awards.

AVAILABLE VERSIONS

The versions of ART-U whose front panel has a metallic finish are summarised in the CMF table (Colours, Materials, Finishes). CMF is a true industrial design tool that focuses on the chromatic, tactile, and decorative identity of products and environments.

ART-U	Metallic Skin			
	Grey	White	Red	Black
Color	Silver	White RAL9010	Red RAL3020	Black RAL9005
Material	Aluminium			
Finish	Metallic brushed finish		Metallic matt finish	

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.

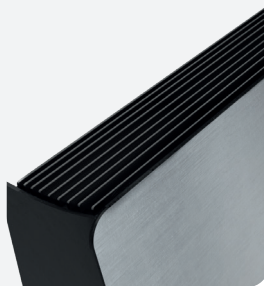


Conveyors

Made of PVC. 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.

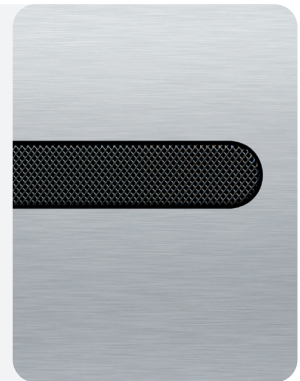
Upper grille

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



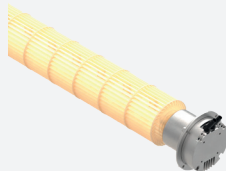
Front grille

Steel. Designed to stabilize the operation of the tangential fan



Electric motor

Permanent magnet EC 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.



Tangential fans

Tangential fan, statically and dynamically balanced to reduce its noise during operation.

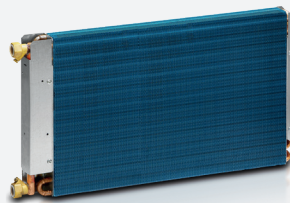
The plastic material used for the blades guarantees, in comparison with metal fans, a reduction in vibrations and an absence of bending along the rotation axis.

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.



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.

ACCESSORIES

EVO-2-TOUCH

The new EVO-2-TOUCH controller can also be installed directly on the unit and guarantees maximum temperature and humidity comfort combined with the ergonomics of its touch screen. The tap and swipe functions make the control experience similar to that of your smartphone.

The various screens are designed to make human-machine communication intuitive. Each page contains a few essential items of information that allow the consultation of the unit's main operating parameters and enable the initial control configuration according to system requirements.

The external frame of the interface is available in four different chrome plating options and is made with double aluminium foil and a polyethylene core.



DISC-COVER

The minimalist style of the DISC-COVER is in harmony with the elegant and essential lines of ART-U. Available in three different colours: white RAL9010, black RAL9005, and red RAL3020. It adapts perfectly to the style of the space to be air-conditioned, whether it be severe and formal or ironic. Its shape was purposely designed to make installation quick and easy even during cleaning and maintenance operations. The magnet coupling system allows its position to be adjusted according to the installation height and the position of the pipes.



ACCESSORIES

Electronic microprocessor control panels with display

DIST	MYCOMFORT controller spacer for wall mounting
E2TK	Touch screen 2.8" user panel for EVO control EVO-2-TOUCH, frame in aluminium color black RAL9005
E2TY	Touch screen 2.8" user panel for EVO control EVO-2-TOUCH, frame in natural brushed aluminium
E2TW	Touch screen 2.8" user panel for EVO control EVO-2-TOUCH, frame in aluminium color white RAL9010
E2TR	Touch screen 2.8" user panel for EVO control EVO-2-TOUCH, frame in aluminium color red RAL 3020
EVOBOARD	EVO control circuit board ART-U
EVO DISP	User interface for ART-U EVO control with display
EYNAVEL	Device for Wi-Fi or Bluetooth communication between EVOBOARD and smartphone
KBEVS	EVO DISP on-board installation Kit for ART-U
MCLE	Microprocessor control with display MYCOMFORT LARGE
MCSUE	Humidity sensor for MYCOMFORT LARGE and EVO
MCSWE	Water sensor for MYCOMFORT and EVO controllers
TOUCHKB-W	Kit for installation of EVO-2-TOUCH onboard of ART-U version White

TOUCHKB-Y Kit for installation of EVO-2-TOUCH onboard of ART-U, Grey, Red e Black version

Electronic microprocessor control panels

TED SWA	Water temperature sensor for TED controls
TED10	Electronic controller for BLDC fan equipped with inverter and ON/OFF valves 230 V
TEDKB-W	On-board ART-U White version installation kit suitable for TED controller
TEDKB-Y	Kit for installation of TED onboard of ART-U, Grey, Red and Black version

Auxiliary water drip trays, insulating shell, condensate drainage pump

GIVK-2	Insulating shell for KV - 2 ways valve
GIVK-3	Insulating shell for VKS - 3 ways valve

Base and enclosure elements

DISC-K	Covering foot for ART-U fan coil - black RAL 9005
DISC-R	Covering foot for ART-U fan coil - red RAL 3020
DISC-W	Covering foot for ART-U fan coil - white RAL 9010

Valves

V2VSTD	2-way valve, ON/OFF or MODULATING actuator, 230 V or 24 V power supply, hydraulic kit, for main heat exchanger
V3VSTD	2-way valves, ON/OFF or MODULATING actuator, 230 V or 24 V power supply, hydraulic kit, for main heat exchanger

RATED TECHNICAL DATA

ART-U			10				20				30			
Speed			1	2	3	4	1	2	3	4	1	2	3	4
Control voltage	(E)	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)(E)	kW	0,31	0,76	0,90	1,13	0,58	1,15	1,41	1,76	0,63	1,46	1,76	2,18
Sensible cooling capacity	(1)(E)	kW	0,21	0,63	0,73	0,91	0,42	0,89	1,08	1,36	0,45	1,18	1,44	1,78
FCEER class	(E)		C				C				B			
Water flow	(1)	l/h	53	132	156	198	100	198	242	303	108	253	305	379
Water pressure drop	(1)(E)	kPa	1	4	5	8	2	6	9	13	2	12	17	24
Heating capacity	(2)(E)	kW	0,29	0,82	1,05	1,40	0,53	1,09	1,31	1,62	0,63	1,54	1,87	2,30
FCCOP class	(E)		C				C				C			
Water flow	(2)	l/h	51	143	183	243	92	189	228	282	109	267	324	400
Water pressure drop	(2)(E)	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	374	461
Power input	(E)	W	4	7	9	14	4	10	12	17	5	11	15	24
Total sound power level	(3)(E)	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	(E)	V	2,00	5,50	7,00	10,0	2,00	5,50	7,00	10,0
Total cooling capacity	(1)(E)	kW	0,76	1,84	2,37	3,12	0,92	2,32	2,89	3,69
Sensible cooling capacity	(1)(E)	kW	0,53	1,38	1,77	2,33	0,65	1,72	2,15	2,77
FCEER class	(E)		B				B			
Water flow	(1)	l/h	131	315	406	535	157	398	496	634
Water pressure drop	(1)(E)	kPa	2	12	17	29	3	13	19	29
Heating capacity	(2)(E)	kW	0,74	1,99	2,49	3,21	0,95	2,56	3,16	4,02
FCCOP class	(E)		C				B			
Water flow	(2)	l/h	128	347	433	559	165	446	550	698
Water pressure drop	(2)(E)	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	(E)	W	5	12	17	27	5	12	18	30
Total sound power level	(3)(E)	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 EN1397:2021

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

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

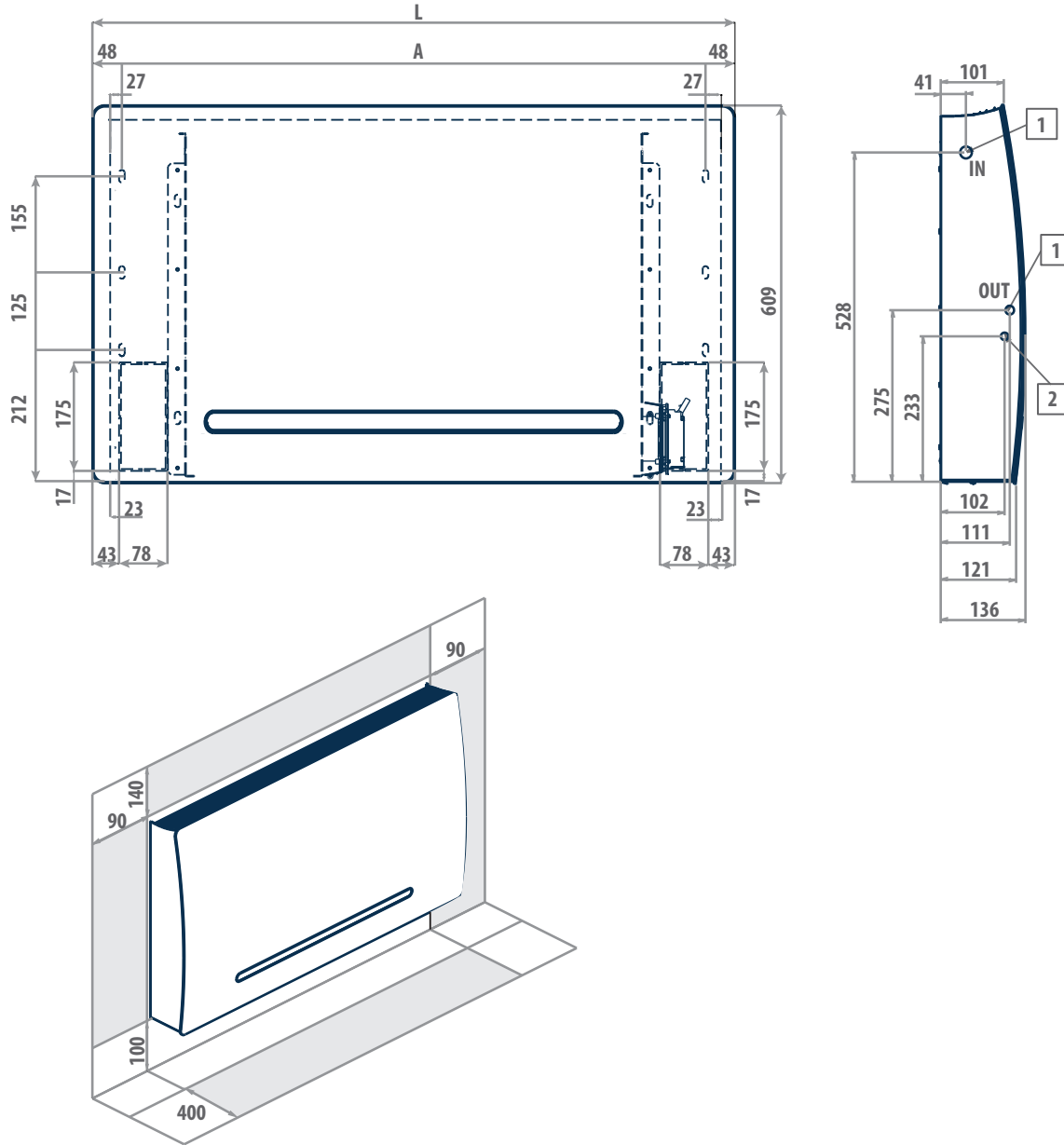
(E) EUROVENT certified data

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

NOTE: The dimensional drawings of the ART-U units are the same of the ART-U Canvas. They are reported at page 37.

DIMENSIONAL DRAWINGS

ART-U



LEGEND

- 1** Water connections standard heat exchanger $\varnothing$ 1/2"
- 2** Condensate discharge diameter for vertical installation $\varnothing$ 17 mm

NOTE: FOR THE TECHNICAL DATA, REFER TO THE PAGE 33 TABLE OF ART-U.

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