



## WE CARE FOR BETTER AIR ....SINCE 1963



# WE CARE FOR **Better Air**



## LOCATIONS

Our Fan Coil Units are manufactured with the utmost care and precision at our production site in Rovereto. The wide portfolio ranges from cost-effective standard solutions for comfort applications to specialized units for shipbuilding or medical facilities – such as double-walled versions. Project-specific custom designs with modern equipment can also be realized at any time. Upon request, we supply all Fan Coil Units with factory-integrated controls and accessories (valves, heating elements, etc.).

Thanks to our **local presence in more than 60 countries**, we can ensure comprehensive **service in sales and customer service**. Our broad distribution network spans sales and service offices throughout Europe, Asia, the Middle East, North Africa and Australia.

We have been providing better air and a healthy indoor climate for more than 60 years and are a true pioneer in this area. Since inception, we have continuously advanced innovations and developed into a global leader in customised, eco-friendly air conditioning and Air Handling Units. Our many years of expertise are reflected in the quality of our products. We always strive to meet the needs of our customers and look forward to shaping the future of indoor air technology in the coming decades.



- Manufacturing of Fan Coil Units at the Euroclima production site in Rovereto (Italy)
- >> We also produce custom solutions for specific industries





EMPLOYEES



WITH SALES AND SERVICE PARTNERS





# MILESTONES OUR HISTORY

## HISTORY

2023 Full automation bending system Euroclima Austria





- Family business in the 3rd Generation
- Worldwide presence with sales and service partners
- >>> Leader for high-tech solutions

 Qualityaustria

 SYSTEM CERTIFIED

 ISO 9001:2015
 No.03578/0

 ISO 14001:2015
 No.02301/0

 ISO 45001:2018
 No.00404/0







MANAGEMENT-RUN

## SOFTWARE

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The Euroclima FCU selection software is developed to select the proper unit for offices, retailers, installers and end users.

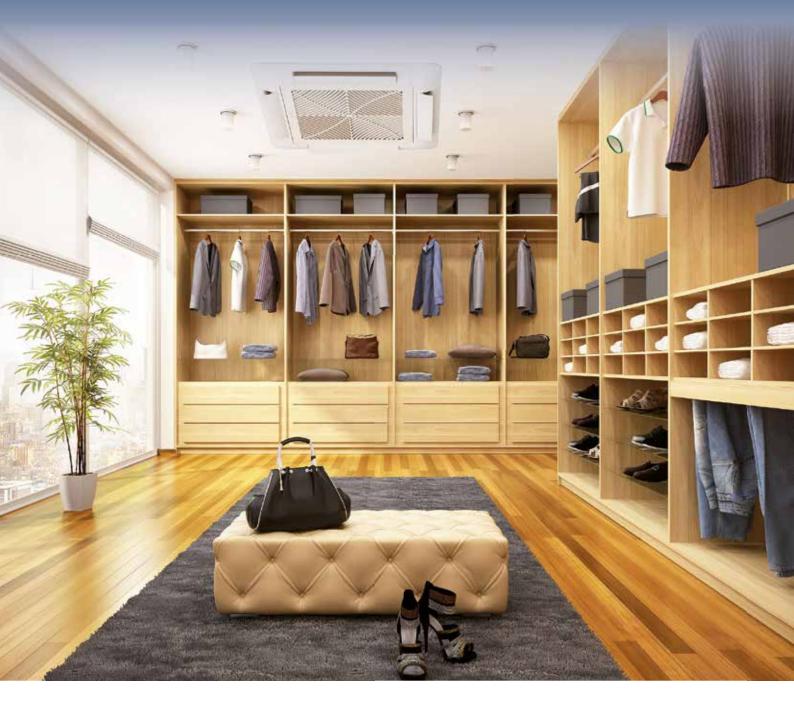
It is available in **7** *languages*: Italian, English, French, German, Spanish, Russian and Dutch.

After setting the operating conditions, it is *simple to select the unit* and to print the *technical data* including *unit dimensions* as well as the *commercial offer*.

Unit and accessory prices, catalogues and technical documentation are integrated in the software.

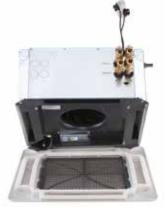
# GENERAL FEATURES

COIL	Copper tubes DN 9,52 mm (3/8") staggered for greater heat transfer, highly efficient aluminium fins. Coil headers made of brass, copper or steel with connections for 2 or 4 pipe systems. Manual air vent valves as standard, automatic air vent valves optional. Working pressure = 13 bar / Test 20 bar, working temperature 80°C (max 100°C).
FILTER	Regenerable synthetic fiber enclosed in a galvanized frame with wire mesh protection. The filter is easily removable for cleaning and maintenance. Filter efficiency G1, G2 and G3. On request metallic, washable or highly efficient filters available.
FAN	Tangential, helicoidal and double inlet centrifugal fans with galvanized steel scrolls and alumiunium or ABS impellers. The impellers are statically and dynamically balanced.
MOTOR	Motors in accordance with European Standard ErP2015 n. 327/2011 (where indicated), provided with self- lubricating bearings and cast aluminum enclosure (temperature class B or F, thermal protection incorporated) with or without autotransformer. For F-Series the motor are ATEX and IP 65 certified. <u>AC-motor</u> – V230/1/50-60Hz single phase, 3 or 5 depending on the the model, all speeds are wired to the terminal. <u>EC-motor</u> – V230/1/50-60Hz single phase, brushless, for continuous variable speed control (010V signal)
CASING	Frame construction made of galvanised steel, casing epoxy powder coated RAL 9010 (any RAL colour available on request). On request complete insulation on fan and coil section and cabinet (5 or 12 mm closed cells self-adhesive polyethylene, fireproof insulation class 1 European standard). Inclined drain pan made of galvanised steel, insulated 5 mm self-adhesive polyethylene as standard. On request drain pan made of stainless steel or epoxy powder coated. <u>DS series</u> – sandwich double skin self supporting panel 25 mm thick, outer skin 0,6 mm RAL 9010 precoated. Inner skin 1,0 mm galvanized sheet steel. Soundabsorbing rockwool insulation, non-combustible, fire class A1, density 20 kg/m <sup>3</sup> .
CONTROL	5-speed fan switch, all wired in electrical control box IP22 (IP55 on request), mechanical and electronic thermo- stats, unit or wall mounted available according to the fancoil model.
GRILLE	Anodized and coated aluminium grille.
THERMOSTAT	Mechanical or electonic, unit or wall mounted to control all the unit's functions (summer/winter switch, 3-speed fan switch), ready for valve control etc A great choice of regulations for standard and special applications is available.
VALVE	2, 3, 3 ways + bypass with on/off actuators (V230/1) and modulating actuators (010Vdc) for 2 or 4-pipe sys- tems. They can be supplied loose or factory fitted.
HEATING ELEMENT	Stainless steel AISI 304 with alu-zinc fins, safety thermostat with manual reset (automatic on request), power contactor. Technical and constructional characteristics according to European safety regulations. Several heating elements can be connected parallely to increase the heating capacity.
SUPPORTING FEET	For vertical units, made of sturdy galvanized steel epoxy coated, light grey RAL 7074, to be mounted on the units base for placement or screening of tubes.
PLENUM	Supply monoblock plenum with round spigot connections (max. DN 250 mm), return plenum is to be mounted separately. It can be internally insulated with closed cells self-adhesive polyethylene, fireproof insulation (class 1 European standard).
GERMICIDAL LAMP	High efficiency UV lamp, reduces the risk of contamination of coil fins. Used whenever a high degree of steri- lization is required.



The *innovative design* of the cassettes grants *high performance with low sound*. It is the perfect unit if the design comes first and it perfectly matches any surroundings or decor. The highly efficient fan and the adjustable blades grant a *perfect air distribution*. The dimensions of the cassette are suitable for all *European standard modules* and allow a *quick and easy installation*.

Wide range of models and huge availability of accessories make these cassettes adaptable to any request.







# CASSETTES

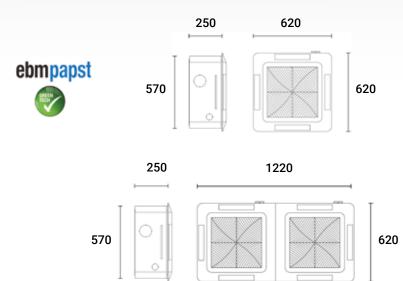
## **CT-EC**

- Condensing pump, non-return valve and float included
- · Easily removable and washable filter
- 2 pipe system
- · Coil with 2 and 4 rows
- · EC-motor
- Remote IR control or wall thermostat (on request)
- Electric heater and safety contactor (on request)
- fresh & adjacent room air spigot (on request)
- Panel in ABS
- · Panel in powder coated aluminium on request

CT-EC		2 pipes 049	2-pipes 126
Nominal airflow	m³/h	950	1.620
Total cooling capacity (1)	kW	5,64	8,09
Sensible cooling capacity (1)	kW	3,93	6,16
Heating capacity (2)	kW	6,04	7,82
Sound Power Level Lw $^{\scriptscriptstyle (3)}$	dB(A)	64,0	67,0

- $^{(1)}$  Air 27/19°C Water 7-12°C according to EN1397:2015  $^{(2)}$  Air 20°C Water 45-40°C according to EN1397:2015
- <sup>(3)</sup> 1/3 octave band frequency according to EN16583:2022

## **4-WAY SINGLE AND DOUBLE**





(AHU) and Fan Coil Units (FCU); Check ongoing validity of certificate eurovent-certification.com



Euroclima decorative units with their unique design are the optimal solution for room installation in hotels, offices, hospitals, school etc.

Newest technologies, flexibility for special requirements, wide performance range, effective control system to lower energy consumption, low noise, clean air (air filtration), effective air exchange, design, production quality and long lasting lifetime are the main advantages.



LOW / MEDIUM AIR FLOW MEDIUM AIR FLOW HIGH AIR FLOW

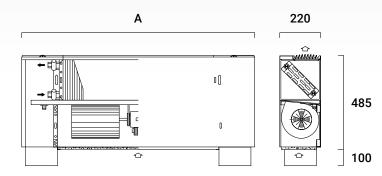
# DECORATIVE UNITS

## F/FE



## **VERTICAL**

- · Bottom intake and vertical discharge with ABS grille
- Easily removable G2 filter
- 2 pipe system
- · Coil with 3 rows
- · Extended drain pan with 5 mm insulation
- AC motor (F) and EC motor (FE)
- Motor ATEX and IP65



	F/FE	02	03	04	06	07
Nominal airflow	m³/h	345	435	720	805	980
Total cooling capacity (1)	kW	1,36	2,44	3,62	4,79	5,74
Sensible cooling capacity (1)	kW	1,36	1,87	2,60	3,45	4,16
Heating capacity (2)	kW	2,13	2,85	4,54	5,23	6,33
Sound Power Level Lw (3)	dB(A)	58	61	63	65	65
Width "A"	mm	840	1.040	1.240	1.440	1.640



 $^{(1)}$  Air 27/19°C - Water 7-12°C according to EN1397:2015  $^{(2)}$  Air 20°C - Water 45-40°C according to EN1397:2015  $^{(3)}$  Air 20°C - Water 45-40°C according to EN16583:2022 (1)

· Side intake and side discharge with alu grill (TE)

· Easily removable G3 filter • 2 or 4 pipe system

Coil with 4, 5, 4+1 or 5+1 rows

Drain pan insulated 5 mm

(only for type T) AC or EC motor

Nominal airflow

Total cooling capacity (1)

Heating capacity (2)

Width "A"

Sensible cooling capacity (1)

Sound Power Level Lw (3)

## T, TE

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35

2.965

17,67

11,75

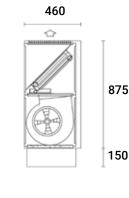
## VERTICAL (T) AND HORIZONTAL (TE)

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 Bottom intake and vertical discharge with alu grill (T) Additional drain pan insulated 5 mm, if valve is mounted

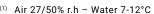
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(2) Air 20°C - Water 50°C same waterflow as in cooling conditions

T TE

m³/h

kW

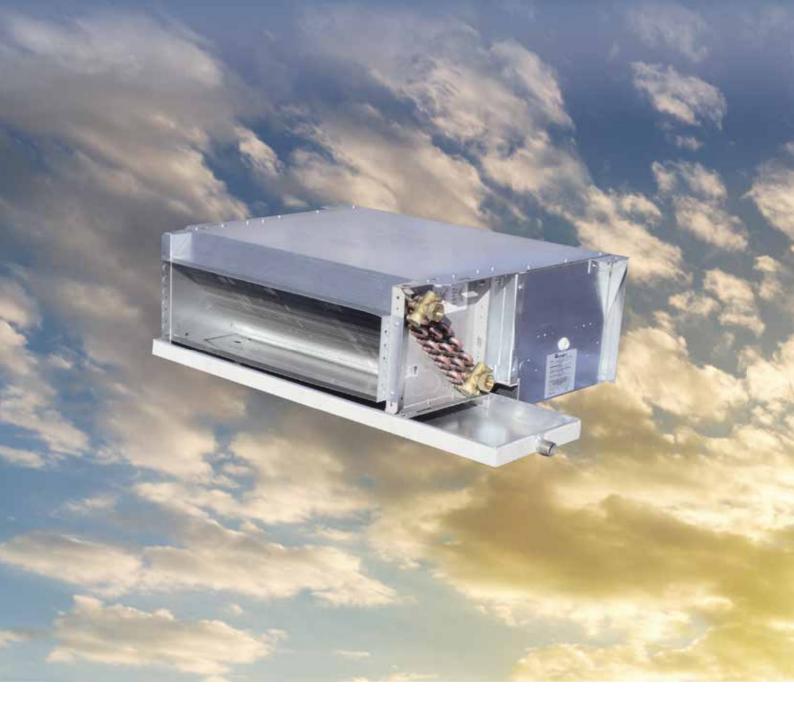
kW

kW

dB(A)

mm

(3) Octave band central frequency



Euroclima ducted units are the optimal solution for *limited space*, mainly used for *installation in the false ceiling*.

The **design** of the units and the **optimally selected fans** guarantee **quiet operation** even at high external static pressure.

The units can be vertical or horizontal.

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LOW / MEDIUM AIR FLOW MEDIUM AIR FLOW HIGH AIR FLOW

# DUCTED UNITS

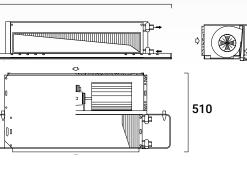




#### · Rear intake and horizontal discharge

- Easily removable G2 filter
- · 2 pipe system
- · Coil with 3 rows
- · Extended drain pan with 5 mm insulation
- AC motor (F-H) and EC motor (FE-H)
- Motor ATEX and IP65

up to 70 Pa



Α

F-H/FE-H		02	03	04	06	07	09
Nominal airflow	max m³/h   Pa	288 52	278 52	587 52	617 52	809 52	999 52
Nominal airflow	med m³/h   Pa	270 50	278 50	554 50	656 50	764 50	941 50
Nominal airflow	min m³/h   Pa	249 44	272 48	517 45	625 48	705 46	893 47
Total cooling capacity (1)	kW	1,24	1,94	3,27	3,57	4,88	6,24
Sensible cooling capacity (1)	kW	1,17	1,55	2,51	3,07	3,58	4,43
Heating capacity <sup>(2)</sup>	kW	1,83	2,34	3,82	3,82	5,39	6,67
Sound Power Level Lw inlet+radiated (3)	db(A)	64	65	68	69	71	71
Sound Power Level Lw outlet duct (3)	db(A)	63	64	67	68	70	70
Width "A"	mm	700	900	1.100	1.300	1.500	1.700



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(AHU) and Fan Coil Units (FCU); Check ongoing validity of certificate:
eurovent-certification.com
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HORIZONTAL

230

 $^{(1)}$  Air: 27/19° C - Water in: 7/12° C according to EN1397:2015  $^{(2)}$  Air: 20° C – Water in 45-40° C according to EN1397:2015  $^{(3)}$  1/3 Octave band frequency according to EN16583:2022

# DUCTED UNITS

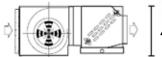




- Rear intake and horizontal discharge
- Easily removable G3 filter
- 2 or 4 pipes system
- Coil with 2, 3, 2+1 or 3+1 rows
- · Extended drain pan with 5 mm insulation
- AC motor (C-H) and EC motor (CE-H)



HORIZONTAL



420



Euroclima participates in the EPC programme for Air Handling Units (AHU) and Fan Coil Units (FCU); Check ongoing validity of certificate: eurovent-certification.com

C-H / CE-H		09	11	17	20	23	32
Nominal airflow	max m³/h   Pa	774   57	867   60	1568   58	1646   59	2205   60	2391   60
Nominal airflow	med m³/h   Pa	725   50	799   50	1450   50	1519   50	1999   50	2195   50
Nominal airflow	min m³/h   Pa	637   38	735   42	1303   41	1382   42	1803   41	2009   42
Total cooling capacity (1)	kW	3,61	4,34	7,31	8,39	10,42	12,63
Sensible cooling capacity (1)	kW	2,63	3,18	5,32	5,93	7,59	8,87
Heating capacity (2)	kW	4,16	4,98	8,42	9,28	11,99	13,82
Sound Power Level Lw inlet+radiated (3)	db(A)	71	71	75	73	75	74
Sound Power Level Lw outlet duct (3)	db(A)	70	70	74	72	74	73
Width "A"	mm	700	900	1.100	1.300	1.500	1.700

up to 160 Pa

 $^{(1)}~$  Air: 27/19° C - Water in: 7/12° C according to EN1397:2015

(2) Air: 20° C - Water in 45-40° C according to EN1397:2015

<sup>(3)</sup> 1/3 Octave band frequency according to EN16583:2022

# DUCTED UNITS

ErP

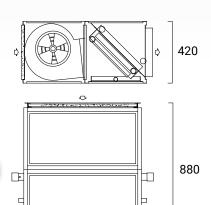
## T-H, TE-H



- Bottom intake and vertical discharge with alu grill (TE-H)
- Rear intake and horizontal discharge with alu grill (T-H)
- · Easily removable G3 filter
- 2 or 4 pipe systems Coil with 4, 5, 4+1 or 5+1 rows
- Drain pan insulated 5 mm
- AC or EC motor

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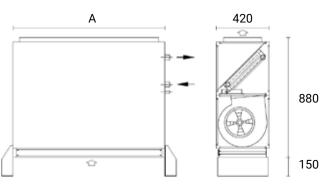
up to 200 Pa



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	T-H TE-H	30	35	50	60
Nominal airflow	m³/h	4.325	4.700	5.860	6.780
Total cooling capacity (1)	kW	22,95	25,24	31,10	35,19
Sensible cooling capacity (1)	kW	15,10	16,66	20,41	23,29
Heating capacity (2)	kW	30,97	34,07	41,90	47,91
Sound Power Level Lw (3)	dB(A)	73	72	75	73
Width "A"	mm	1.400	1.600	1.800	2.000

Air 27/50% r.h - Water 7-12°C
 Air 20°C - Water 50°C same waterflow as in cooling conditions
 Octave band central frequency



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TO / TO-EC

15

# DOUBLE SKIN SELF-SUPPORTING UNITS



Euroclima double skin self-supporting units are the optimal solution for *limited space*, mainly used for *in-stallation in the false ceiling*.

Thanks to the *double skin construction* (23 mm soundabsorbing rock wool insulation with 20 kg/m<sup>3</sup>) the unit can handle *high static pressure drops* with reduced noise values.

<b>COS</b>	LOW / MI
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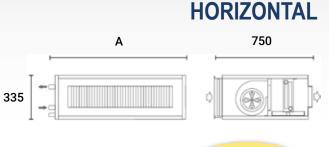
## JBLE SKIN SELF-SUPPORTING UN

### **DF/DEF**



#### · 25 mm double skin panel with rock wool (20kg/m3)

- Rear intake and horizontal discharge
- · Easily removable G2 filter
- 2 or 4 pipes system
- Coil with 2, 3, 2+1 or 3+1 rows
- Drain pan with 5 mm insulation
- AC motor (DF) and EC motor (DEF)
- Motor ATEX and IP65 •





	DF/DEF	02	03	04	06	07	09
Nominal airflow	m³/h	405	480	850	940	1.140	1.325
Total cooling capacity (1)	kW	2,28	3,34	4,74	5,68	6,81	8,16
Sensible cooling capacity (1)	kW	1,57	2,16	3,26	3,78	4,56	5,36
Heating capacity (2)	kW	2,96	3,94	6,15	7,08	8,54	10,03
Sound Power Level Lw (3)	db(A)	54	55	60	60	61	63
Width "A"	mm	600	800	1.000	1.200	1.400	1.600

Air 27/50% r.h - Water 7-12°C
 Air 20°C - Water 50°C same waterflow as in cooling conditions
 Octave band central frequency

### **DC/DEC**



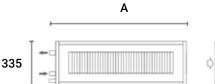
- 25 mm double skin panel with rock wool (20kg/m3)
- · Rear intake and horizontal discharge
- · Easily removable G3 filter
- · 2 or 4 pipes system
- Coil with 3, 4 or 3+1 rows
- Drain pan with 5 mm insulation
- AC motor (DC) and EC motor (DEC)

	DC/DEC	09	11	17	20	23	32
Nominal airflow	m³/h	900	1.080	1.800	1.975	2.570	2.910
Total cooling capacity (1)	kW	4,20	6,23	10,07	11,88	15,19	17,82
Sensible cooling capacity (1)	kW	3,27	4,29	6,83	7,85	10,03	11,79
Heating capacity (2)	kW	6,06	8,01	12,86	14,69	18,83	21,97
Sound Power Level Lw (3)	db(A)	63	63	67	64	66	67
Width "A"	mm	600	800	1.000	1.200	1.400	1.600

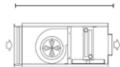
(1)

Air 27/50% r.h – Water 7-12°C Air 20°C – Water 50°C same waterflow as in cooling conditions (2) (3)

Octave band central frequency



#### HORIZONTAL



750

up to 160 Pa

## OUBLE SKIN SELF-SUPPORTING UNITS

### DT/DET



#### • 25 mm double skin panel with rock wool (20kg/m3)

- · Rear intake and horizontal discharge
- · Easily removable G3 filter
- · 2 or 4 pipes system
- Coil with 4, 5, 4+1 or 5+1 rows
- · Drain pan with 5 mm insulation
- AC motor (DT) and EC motor (DET)

HORIZONTAL 990 Α 490

up to 200 Pa

	DT/DET	15	20	30	35	50	60
Nominal airflow	m³/h	2.170	2.170	4.325	4.700	5.860	6.780
Total cooling capacity (1)	kW	14,12	14,85	28,16	31,40	38,05	43,78
Sensible cooling capacity (1)	kW	9,42	9,97	18,79	20,80	25,37	29,19
Heating capacity (2)	kW	17,26	18,01	34,41	37,95	46,51	53,57
Sound Power Level Lw (3)	db(A)	67	66	71	70	73	71
Width "A"	mm	800	1.000	1.400	1.600	1.800	2.000

Air 27/50% r.h - Water 7-12°C
 Air 20°C - Water 50°C same waterflow as in cooling conditions

<sup>(3)</sup> Octave band central frequency

## **TE-DS**





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up to 400 Pa

1140

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550

- · 25 mm double skin panel with rock wool (20kg/m3)
- Rear intake and horizontal discharge
- · Easily removable G3 filter
- 2 or 4 pipes system
- Coil with 5, 6, 5+1 or 6+1 rows
- Drain pan with 5 mm insulation
- EC motor

	TE-DS	20	30	60
Nominal airflow	m³/h	3.266	5.847	9.111
Total cooling capacity (1)	kW	21,90	38,92	60,28
Sensible cooling capacity (1)	kW	15,24	26,56	41,09
Heating capacity (2)	kW	27,32	47,99	74,38
Sound Power Level Lw (3)	db(A)	75	78	79
Width "A"	mm	1.000	1.400	2.000

(1) Air 27/50% r.h - Water 7-12°C

18

(2) Air 20°C - Water 50°C same waterflow as in cooling conditions (3)

Octave band central frequency

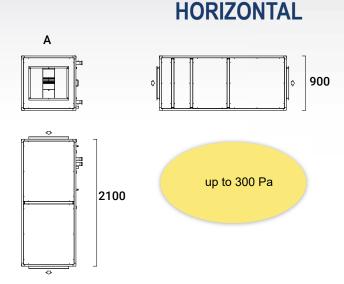


## OUBLE SKIN SELF-SUPPORTING UNITS

#### TME



- 25 mm mm double skin panel with rock wool (20kg/m3)
- Rear intake and horizontal discharge
- Easily removable double filter G3+F7
- · 2 pipes system
- Coil with 5 or 6 rows
- · Silencers on supply and precutted sheet on fan section
- Drain pan with 5 mm insulation
- EC motor (monophase)



	TME	035	070	105	140
Nominal airflow	m³/h	4.380	8.190	11.390	14.020
Total cooling capacity (1)	kW	30,24	58,41	82,82	103,55
Sensible cooling capacity (1)	kW	20,22	38,56	54,49	67,77
Heating capacity (2)	kW	36,44	69,15	97,29	120,66
Sound Power Level Lw (3)	dB(A)	66	69	71	73
Width "A"	mm	900	1.500	2.100	2.610

Air 27/50% r.h - Water 7-12°C
 Air 20°C - Water 50°C same waterflow as in cooling conditions

(3) Octave band central frequency

# CONTROLS & REGULATIONS

### SERIE A, B, C 300-304 Electronic multifunction thermostat BMS (Building Management System)



Pre-programmed controller with display, clock and communication



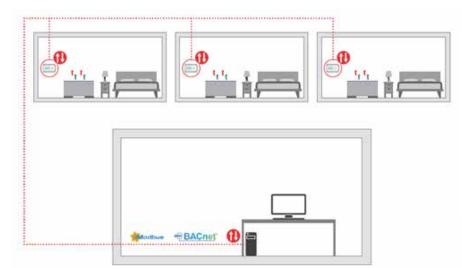
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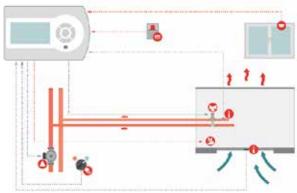
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- Communication via RS485 (Modbus or BACnet)
- · Quick and safe onfirguration with the Evolution tool
- Easy installation
- Control On/Off or 0...10 V
- · Input for keycard, window contract, CO2 sensor and season change modus
- Clock for management of time bands

USB connection for parameter configuration & software update





# CONTROLS & REGULATIONS



#### A530 - Electronic analog thermostat unit mounted (AC-motors)

3-speed fan switch, summer/winter switch, desired room temperature control, continuous/ thermostat controlled ventilation, for 2 or 4 pipes systems, with valve control, with or without minimum water temperature thermostat, with internal or remote temperature sensor.



#### A70 - Electronic thermostat (AC-motors)

3-speed fan switch, summer/winter switch, desired room temperature control, continuous/ thermostat controlled ventilation, for 2 or 4 pipes systems, with or without valve control, with or without minimum water temperature thermostat, with internal or remote temperature sensor.



#### A111 - Electronic digital thermostat (EC motors)

Configurable with 0...10 Vdc for EC-motors, desired room temperature control, summer/ winter switch, continuous/thermostat controlled ventilation, for 2 or 4 pipes systems, with or without valve control ON/OFF and modulating (24 Vac), with or without minimum water temperature thermostat, with internal or remote temperature sensor.



#### T21 - Electronic Touch Thermostat

Compatible with both AC and EC motors. Features include summer/winter mode selection, weekly programming, automatic or manual fan speed control, support for 2 or 4-pipe systems. Wi-Fi connection via Smart Life/Tuya app or Modbus. Controls valves and supports an additional temperature sensor.



#### TEL - IR Remote control for Cassettes

3-speed fan switch, desired room temperature control, summer/winter switch, continuous/ thermostat controlled ventilation.



#### EE & EH - Electrical heating element (V230/1)

Standard or high capacity heating elements from 700 to 5000 W including security thermostat with manual reset (automatic reset on request) and power contactor, wired to electric box. Dimensions from 350 to 1550 mm. Support for the parallel connection of several heating elements (on request).

# CONTROLS & REGULATIONS



#### Actuator V230/1

22C (ON/OFF) – NC with thermostatic wax element, (24Vac on request) SMP28 (ON/OFF) – for 3-way globe valves DN from 1" EMUJIC (MODULATING) – actuator 24Vac with LED signal



2 / 3-way valve + bypass

Available for DN ½" and DN ¾" Brass valve body with steel shaft, PN 16



#### 2 / 3-way valve

Available for DN 1" and DN 1 ½" Brass valve body with steel shaft, PN 16



#### Stop valve, balancing valve, ball valve

Stop valve on the water entry to manually regulate the water flow. Balancing valve on the water exit to balance the water circuit. Ball valve for DN from 1"



#### A49 - Condensate pump

Composed of pump block and detection unit, flow rate 10, 20 and 30 l/h for fancoils with low, medium and high air flow.



#### Germicidal lamp kit

Composed of: germicidal lamp, electronic ballast, lamp holder, galva steel support for germicidal lamp kit

## REFERENCES







Kuwait International Airport (2019/2020) - 1840 fan coil units



Jabal Omar Development, Mecca (2015-2016) - 4.000 fan coil units



Abu Dhabi Marina, Dubai (2016) - 950 fan coil units

# REFERENCES

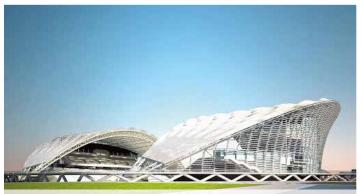




Bank of Italy Head Office, Rome (2003) - 300 fan coil units



Egyptian Museum, Turin (2012) - 25 fan coil units

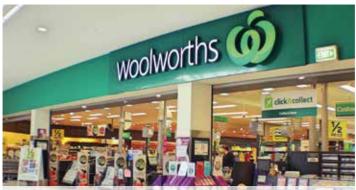


Kuwait university SAAF (2019) - 192 fan coil units



Church of the Eremitani, Padova (2011) - 40 fan coil units





Woolworths supermarket, Australia, Chelsea Heights (2016) - 2 fan coil units

# REFERENCES





Turkish Embassy, Paris (1998) - 180 fan coil units



Curtis Plaza Hotel, Warsaw (1992) - 400 fan coil units



Metro, Copenhagen (2016-2018) - 370 fan coil units



European Parliament, Brussels (2006) - 430 fan coil units



Hilton Sharks Bay Resort, Sharm El Sheikh (1998) - 520 fan coil units



National Library, Alexandria, Egypt (2002) - 60 fan coil units

#### Euroclima group factories



Euroclima AG | SpA St. Lorenzner Str. | Via S. Lorenzo 36 39031 Bruneck | Brunico (BZ) ITALY Tel. +39 0474 570 900 info@euroclima.com www.euroclima.com



Euroclima Apparatebau Ges.m.b.H. Arnbach 88 9920 Sillian AUSTRIA Tel. +43 (0) 48 42 66 61 -0 info@euroclima.at www.euroclima.com



Euroclima Middle East P.O.Box: 119870 Dubai UNITED ARAB EMIRATES Tel. +9714 802 4000 eumeinfo@euroclima.com www.euroclima.com



Euroclima India Pvt Ltd. Office no 501,505 Tropical new era business park Opp. ESIC kamgar Hospital Road no -33 400604 Thane - Maharashtra INDIA Tel. +91 201 404 62 info@euroclima.in www.euroclima.com



Bini Clima S.r.I. Via A. Prato, 4 / A 38068 Rovereto ITALY Tel. +39 0464 437 232 info@biniclima.eu www.biniclima.eu

