

Catalogue

Terminals 05/12



Our proposal...

Aertesi designs and manufactures systems for comprehensive interior climate control in all types of surroundings. Leveraging the results generated by our intensive R&D work, Aertesi can offer a range of innovative system engineering solutions for:

- **The home**
- **Office space and shops**
- **Healthcare facilities**
- **Hotels and restaurants**

Accumulated technical experience enables Aertesi to deliver excellence and quality in the fields of air conditioning and heating.

Our dedication to maximising the conservation of energy sources has brought Aertesi to a position of prominence in the following areas:

- **Hidronic terminal units also with sensible temperature/ humidity treatment**
- **Dehumidifier for radiant cooling**
- **Terminal units with medium/high pressure**
- **Split without external motocondenser**
- **Controllers for integrated systems**
- **High efficiency heat pumps for radiant cooling and heating**

The broad range offered is accompanied by the Aertesi's hallmark flexibility displayed in its willingness to develop special solutions to meet specific customer demands.

INNOVATION IN COOLING AND HEATING

The Aertesi range of chillers and heat pumps high efficiency is the result of our experience and constant search for innovative technical solutions that comply with the need to protect the environment. Dehumidifiers were studied with the purpose to maintain high efficiency isothermic conditions and low noise for the environment.

ENERGY SAVING

Aertesi technical development has always been focused on research into products that are able to provide real energy savings. The introduction of heat pumps high efficiency and fancoils with fan groups with lower absorption energy power and lower noise level are only a few of the activities of development in this direction.

EASE OF INSTALLATION

The units are designed to ensure maximum accessibility for maintenance purposes. Each unit is individually checked with a double final test procedure to provide the maximum level of reliability for end customers.

NEW TOOLS

The development of technical-commercial tools, such as the product selection software, facilitates the selection of Aertesi units easily on the basis of customer requests.

SAFETY AND DECLARED EFFICIENCY

All Units are strictly in compliance with CEI regulations and electromagnetic compatibility requirements. Aertesi is participating in the Eurovent program.

COST-EFFECTIVE

Courtesy and attention to customer needs, i.e. the added value that makes Aertesi products even more attractive.

VERSIONS AND ACCESSORIES

Aertesi products can be personalised with a range of accessories and alternative configurations, controllers on-board the unit, wall mounted, or with PC interface to match the requirements of the most demanding users.

Certifications

The Company is participating in the following certification programs:



ISO 9001 : 2000 CERTIFICATION



Independent Testing Laboratory
CMC Centro Misure Compatibilità S.r.l.
Electromagnetic Compatibility (EMC)

References



**MARRIOTT
HOTEL**
Vien, Austria



**CASINO'
DE
MONTREUX**
Swiss



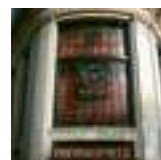
**ERASINIO
HOSPITAL**
Athens, Greece



**JIBACOA
TOURIST
RESORT**
Havana, Cuba



**GIARDINO
HOTEL**
Ascona, Swiss



**VIRGIN
MEGASTORE**
Paris, France



**TISZAI
VEGYI**
(chemical plants)
Tiszaújváros, Hungary



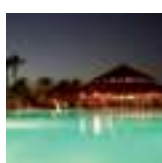
**EL HELAI
MAIN
BUILDING**
Egipt



**FACULTY OF
VETERINARY
MEDICINE
UNIVERSITY
VALENZIANO**
Bari, Italy



POLYCLINIC
Bari, Italy



**CLUB
MED**
Djerba, Tunisia



**MERIDIEN
HOTEL**
Baghdad, Iraq



**SANTA
CESAREA
SPA**
Lecce, Italy



CNET
Centre Research France Telecom
Brest, France



**MINISTRY OF
DEFENCE**
Budapest, Hungary



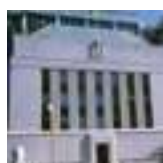
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CENTRE**
Parigi, France



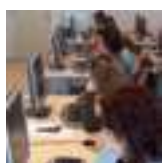
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BILLANCOURT
VÉLIZY**
Rueil, France



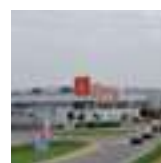
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JUSTICE**
Bari, Italy



**BANQUE
DE
NORVEGE**
Luxemburg



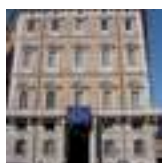
**NEW
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POLO**
Berlin, Germany



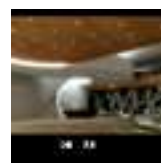
AVION
Bratislava, Slovackia



**POLICE
HEADQUARTERS**
Dubai, United Arab Emirates



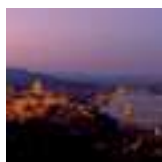
**BRASCHI
PALACE**
Rome, Italy



HOTEL NARVIL
Serock, Poland



**ITALIAN
SCIENTIFIC
STATION**
Antarctica



**METEOROLOGICAL
NATIONAL
STATION**
Budapest, Hungary



**LAURUS
OFFICES**
Budapest, Hungary

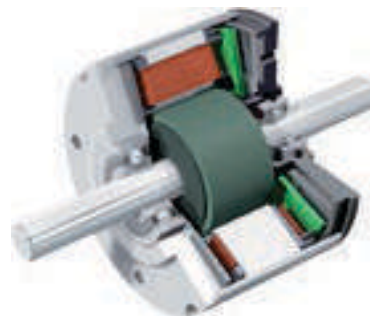
Our mission.....one step forward!



ENERGY SAVING: THE EC BRUSHLESS MOTOR IS AVAILABLE FOR ZEFIRO/LNH/CASSETTE/VESTA

2 different solutions are foreseen according to the fan coil used Zefiro EC and LNH are available with EC Brushless motor, which does not need any capacitor. The inverter board allows a better fuel saving by modulating voltage and frequency at the same time

Cassettes CH2O-G/H-EC have got AC motor controlled by inverter board: it only works on the power supply, and it allows good saving compared with standard AC motor.



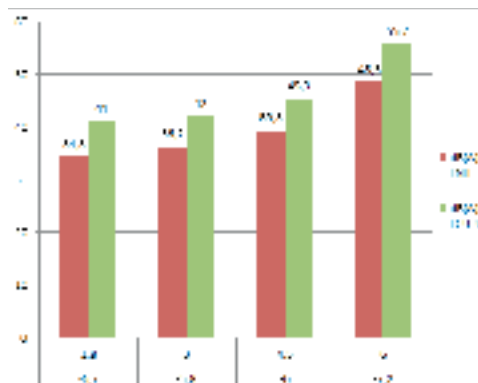
INCLINED MAIN DRAIN PAN TO MAKE SAFETY THE WATER DISCHARGE, IN ALL THE ZEFIRO VERSIONS.

When the attention to the continuous improvement of the product means "HEALTH": to prevent water stagnation on the fancoil means to prevent the bacteria.



LNH: UNITS AT MAXIMUM NOISELESS

When the planning of comfort means to respect the quiet of environment! It is suggested for installations in hotels, houses and hospitals. If it is combined with the proposal of EC motor, the offer is unmissable!



REVERSIBLE SIDES IN ABS PLASTIC OF ZEFIRO SERIES, AND AUXILIARY DRAIN PAN ARE ALWAYS SUPPLIED AS STANDARD

- Reversible sides: maintenance operations are easier than other fan coil units on the market, as you do not need to remove the complete cabinet, but only the side. You save time, and just 1 person can do the maintenance.
- Auxiliary drain pan: it is included on the price of the unit, unlike our competitors!



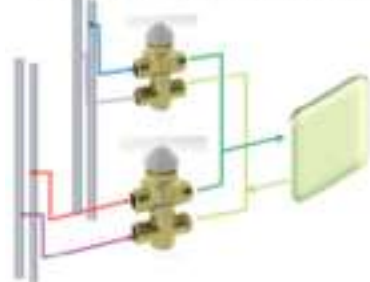
Our mission.....one step forward!



PATENTED SOLUTION: VALVE KIT 4TIN2T

This kit allows to work in a 4 pipe system with fan coil with 2 pipe system; the heating is produced by the main coil. Consequently you can work at 45°-35° (instead of 70°-60°) with the same heating capacity supplied by the unit.

4x2 Fan coil valve - 4 pipe system



One heat exchanger



ZEFIRO WITH WOODEN PANEL: TO UNDERLINE THE DESIGN, AND REDUCE THE DIMENSIONS

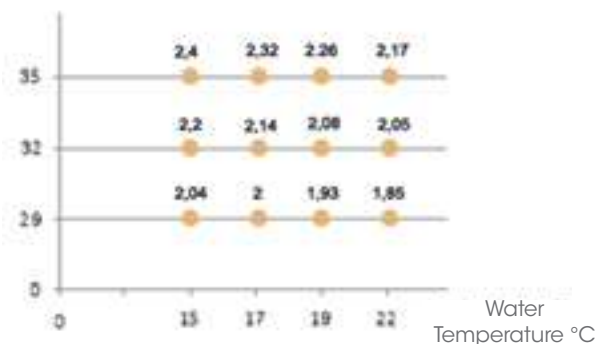
We offer a wide range of solutions with different versions, in order to introduce the fan coil unit in places, where the design requires the utmost attention.



VESTA HI-VI: DEHUMIDIFIERS WITH HIGH PERFORMANCE IN COOLING. THE WAY TO OFFER HIGH COMFORT IN A SIMPLE AND SAFE WAY!

It allows high performance in cooling (from 2 to 2,4 kw): thanks to this feature, it becomes an innovative proposal in the competitive situation. The units becomes mini-chiller by using groundwater. As an alternative it can be used in houses with ext. motocondensing units that works on coil pipe to pipe (gas/water). In these cases the unit becomes the mother lode of heating/cooling instead of radiants with hot or cold water, in houses with low heat consumption, and low thermal load. The use of climatic curve hygrosat (HCP-EV) or "Clima Time" can assure the top of the comfort: you dehumidify when you only need to dehumidify, and you insert in heating or cooling, when it is necessary

Ambient Temperature °C



STATE-OF-THE-ART CONTROLS, AND MANAGEMENT OF MASTER/SLAVE AND BMS

TOP 2 uses the highest technologies to manage the room with the best comfort, and the unit with "the highest efficiency and control" (alarm for dirty filters, broken fan, low/high temperature thermostat TM, weekly program, etc.). Open system predisposed for Modbus Protocol to assure complete integration with other open systems. Possibility of Master/Slave



WET ZEFIRO: HIGH CONTROL OF THE QUALITY OF THE AIR!

It is not only a fan coil unit: it chills, dehumidifies, heats, humidifies (without rain!) with electronic regulation with extreme performance, which makes it suitable for all type of installation: technologic rooms, data centers, houses, hospitals, libraries, museums. It reduces the particulates, and makes the environment healthier: it is suggested for the people who are allergic to pollen. High power to preserve fine wood (parquet), papers (libraries), and food. Intelligent electronic management "Clima Time" for the modular management of humidity output, charging/discharging of water, and use with low electric absorption.



Integrated Control Systems

| | | |
|-----------------------------------|------------------------------|----|
| Range of basic control per BMS | BASIS controls | 9 |
| Range OF advanced control for BMS | BMS control system | 11 |

Hydronic terminal units

| | | |
|---|--|----|
| Large range fan coils | ZEFIRO | 15 |
| Large range fan coils | ZEFIRO EC | 19 |
| Large range fan coils | ZEFIRO with built-in casing predisposition . . . | 23 |
| Fan coil with integrated humidification | WET ZEFIRO | 26 |
| Fan coil for Hotel applications | LNH | 28 |
| Air handling unit | UTW SB | 32 |
| Low profile air handling unit | GHIBLI | 34 |
| Wall fan coil | HWN1 WALL | 36 |
| Fan coil cassette | CH20 G-H | 38 |
| Fan coil cassette with DC motor | CH20 G-H-EC | 41 |
| Fan coil unit for marine applications | MARINE SMALL | 44 |

Heat Recovery units

| | | |
|--|--------------------|----|
| Cross air flow exchanger recovery unit | RECOVERY | 46 |
| High efficiency heat recovery | RHRAER | 48 |
| Active recovery with heat pump | RFMAER | 51 |

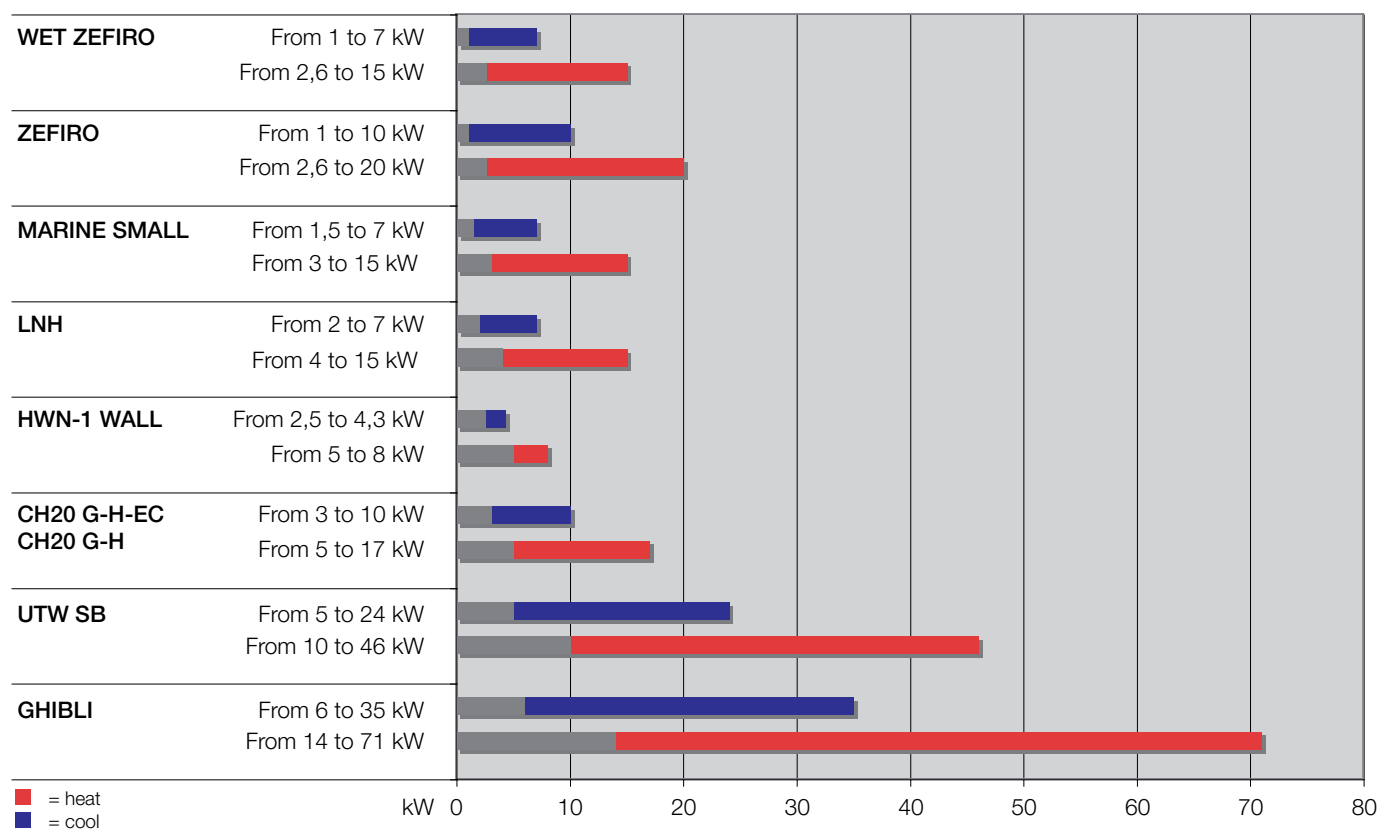
Dehumidifiers

| | | |
|-----------------------------------|-----------------|----|
| Range of isothermal dehumidifiers | VESTA | 54 |
|-----------------------------------|-----------------|----|

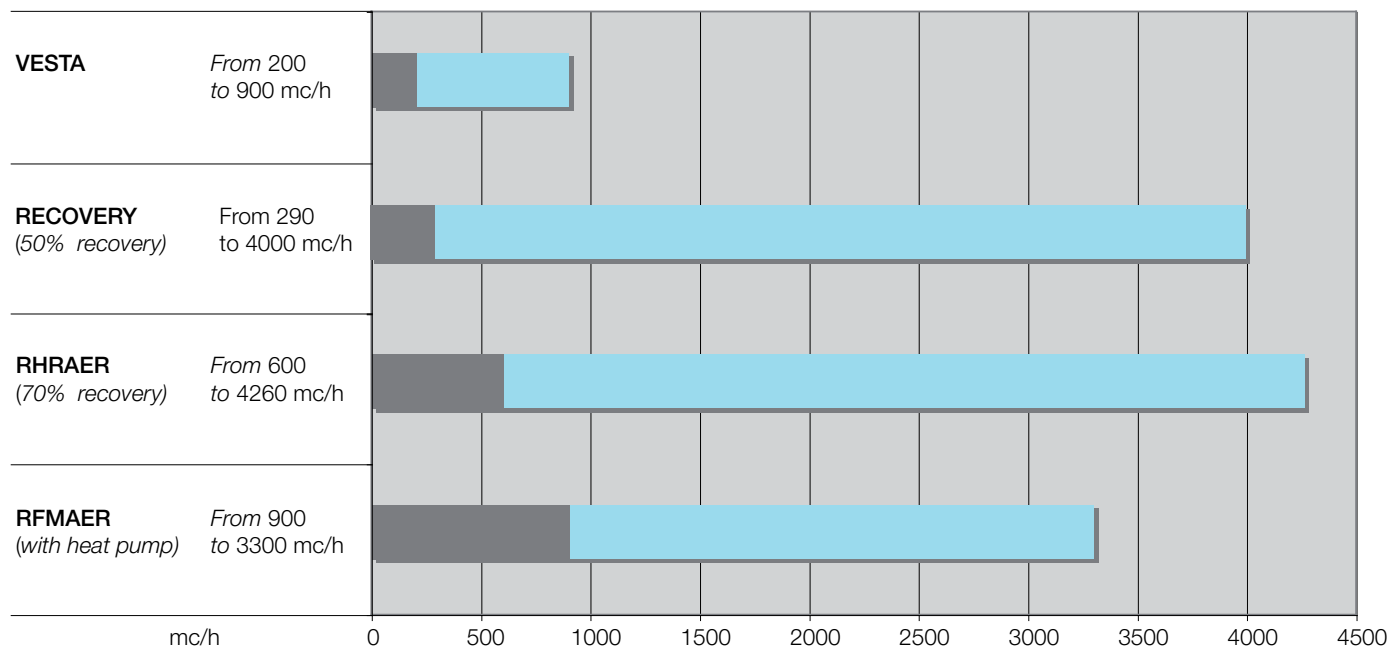
“All in one” heat pumps

| | | |
|--------------------------------------|------------------|----|
| Air conditioner without outdoor unit | ASSOLO | 62 |
|--------------------------------------|------------------|----|

Terminal Units Capacity



Dehumifiers and Heat Recovery Air Flow



Basis controls

Control device for hidronic units



Identity

Wall mounted control
Analogic and digital

Certification



Description

Range of electronic controls with analogic or digital interface, for the terminal hidronic units management, to ensure the better environmental well-being conditions.

Plus

ANALOGIC CONTROLS

They are the ideal solution for installations that require contained functions and costs.

The modern and ergonomic design permit an easy wall installation that joined with the electronic features make these devices a simple product but capable to offer an high comfort.

The controls range offer a simple but effective solution for the fancoils management in both 2 and 4 pipes installations; they are availables in different models in consideration of the kind of employment nad the level of comfort to be obtained, by the more simple with the manually to that with the automatic fan speed control and fancoil management to ensure the best comfort with a gradually modulation of the capacity supplied.

DIGITAL CONTROLS






Range of thermostat with similar functions to the analogic ones, but characterized by an elegant LCD display that make its particularly suitable for all the end users that wish to control the unit functioning and to have availables all the informations regarding the environmental clima.

The touch Screen model permit to the end user to interact with the graphic interface by means of the fingers touch make nice and intuitive the device employment.



TOUCH SCREEN

Control price list

| | | Model | Description | Plant | Basis functions | Additional Functions |
|-------------------------------|--|------------------------|--------------------------------------|----------------------------------|---|--|
| Wall mounted analogic control |  | CSN N | Selector | | On-Off 3 speed Low temperature thermostat relais | |
| | | SATH N | Manual thermostat | 2-4 pipes 2 pipes with heater | On-Off Summer-Winter selector 3 speed Low temperature thermostat relais | On-off valve control Electric heater control |
| |  | TOP1 N | Automatic thermostat | 2-4 pipes 2 pipes with heater | On-Off Summer-Winter automatic selector 3 speed + auto Low temperature thermostat relais | On-off valve control Electric heater control Economy function |
| | | TOP1-0/10V N | Automatic thermostat | 2-4 pipes | On-Off Summer-Winter automatic selector 3 speed + auto Low temperature thermostat relais | Modulating valves control Economy function |
| Wall mounted digital control |  | HTC-002 | Automatic thermostat | 2-4 pipes valves only | On-Off Summer-Winter manual selector 3 speed + auto | On-off valve control |
| | | HTC-002 0-10_2P | Automatic thermostat | 2 pipes valve only | On-Off Summer-Winter manual selector 3 speed + auto | Modulating valves control |
| | | HTC-002 0-10_4P | Automatic thermostat | 4 pipes valves only | On-Off Summer-Winter manual selector 3 speed + auto | Modulating valves control |
| |  | HTC-006 | Automatic thermostat Touch screen | 2-4 pipes | On-Off Summer-Winter automatic selector or manual 3 speed + auto | On-off valve control Weekly programm |
| |  | TOP 2 | Digital control | | On-Off Summer-Winter automatic selector 3 speed + auto | On-Off valve control Modulating valve control (0-10V) Dirty filter alarm Weekly program Windows contact Low temperature thermostat Modbus predisposition |

BMS control system

Advanced management system for integrated heating and air conditioning installations.



Identity

Multi control system

Certifications



Description

The BMS (Building Management System) it's a system control capable to manage more functions like: ventilation, air conditioning, illumination, to start by a presence signal combined with timers, meteorological conditions set up by the end user. It's a system more suitable for "open space", floor offices, hotels, hospitals and meeting rooms management and all those applications that require a centralized and integrated control." This BMS is studied particularly for the hydronic terminal units like fancoils, cassettes, little ducted units.



WPC-GH



TOP 2

Plus

BMS CONTROL - INSTALLATIONS ONLY 2 PIPES

Package of components created to optimize the 2 pipes installations ramified in more zones. The system permits the control until a maximum of 2048 devices with the possibility to centralize the management by means of an Aertesi software or with MODBUS protocol..

BMS CONTROL - 2 AND 4 PIPES INSTALLATIONS

Control system for 2 or 4 pipes installations diffused in more zones. The system allows a centralized control by means of an Open Modbus protocol and software.

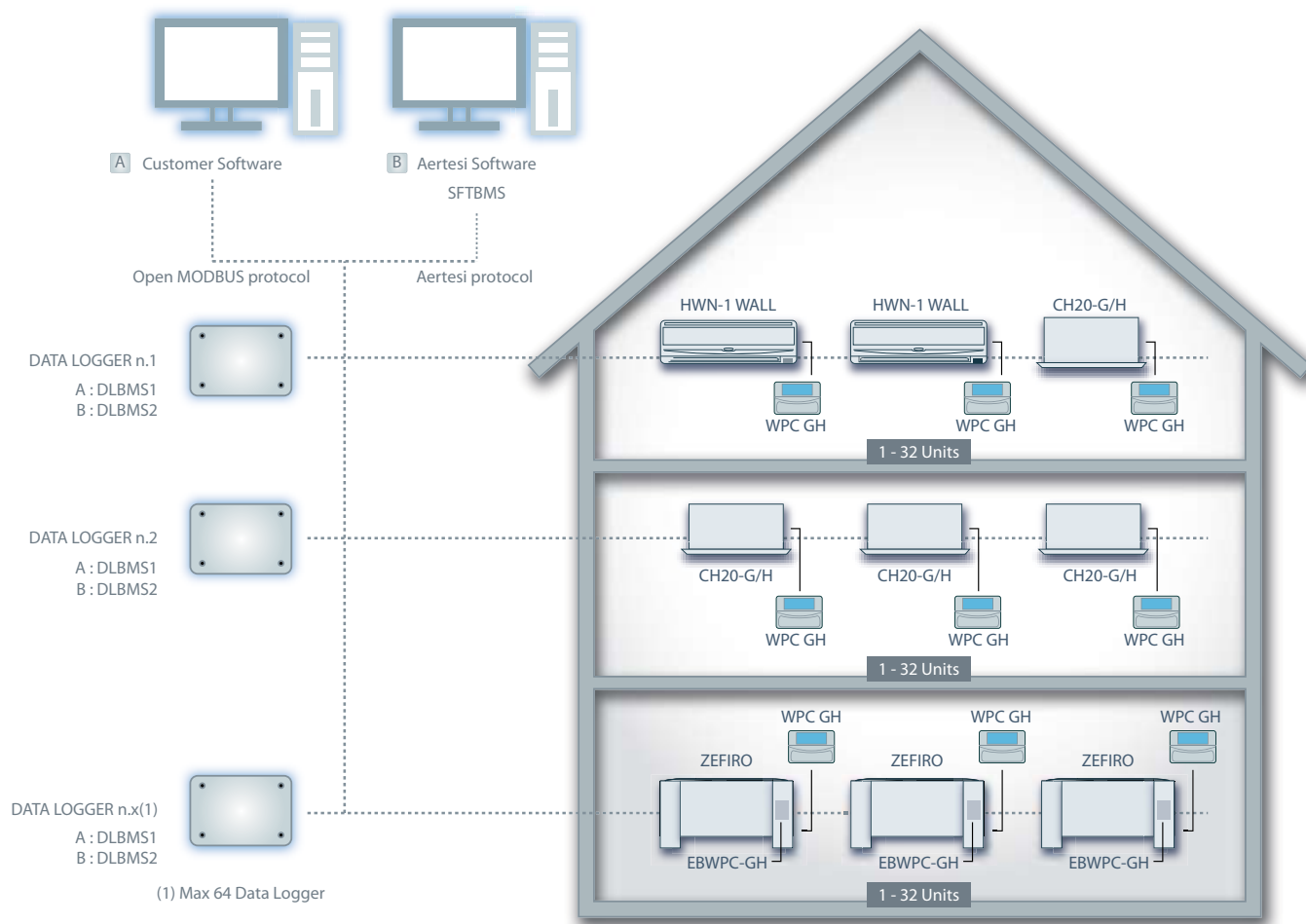
ALL IN 1 CONTROL

Wall mounted standard control with advanced functions Master/ Slave included to create little networks until 32 units each one.

TOP 2

Ventilation: fan always running or with thermostat management of the fan
ON-OFF or modulating valves management predisposition
Dirty filter alarm
Weekly program set point management
Windows contact (without to us any added relais!)
Broken fan alarm (AS) sectable by the menu (no more necessary an added control !)
MODBUS management interface predisposition
TM already included (minimum thermostat probe - it means that in winter the fan switch on only when the water is sufficiently hot) and also Maximum thermostat probe (switch off when the water is sufficiently cold).

BMS Control - Installations only 2 pipes

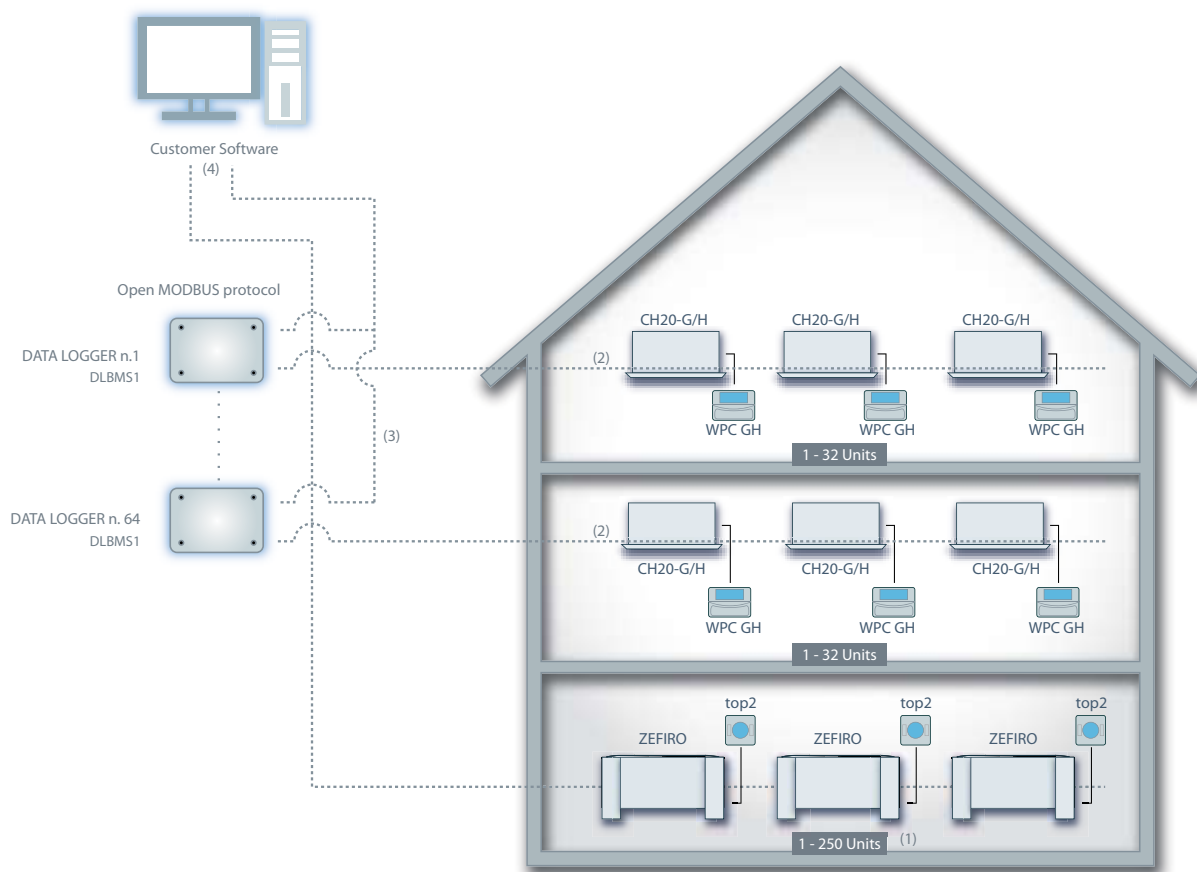


Note: solution available also for LNH/GHIBLI/UTWSB units.

Control price list

| | Model | Description | Basis functions | Additional Functions |
|--------------|--------|-----------------|--|---|
| Wall mounted | WPC-GH | Digital control | On-Off Summer-Winter automatic selector 3 speed + auto | Low temperature thermostat Weekly programm |

BMS control - 2 and 4 pipes installations



Note solution available also for LNH/GHIBLI/UTWSB units.

(1) With Top2, until 250 units. In case of more units, it need to create two or more separates electric lines.



(2) Connections between 1÷32 units and the relative data logger

(3) Connections of the BMS network (Modbus protocol) of the 1÷64 Data logger.

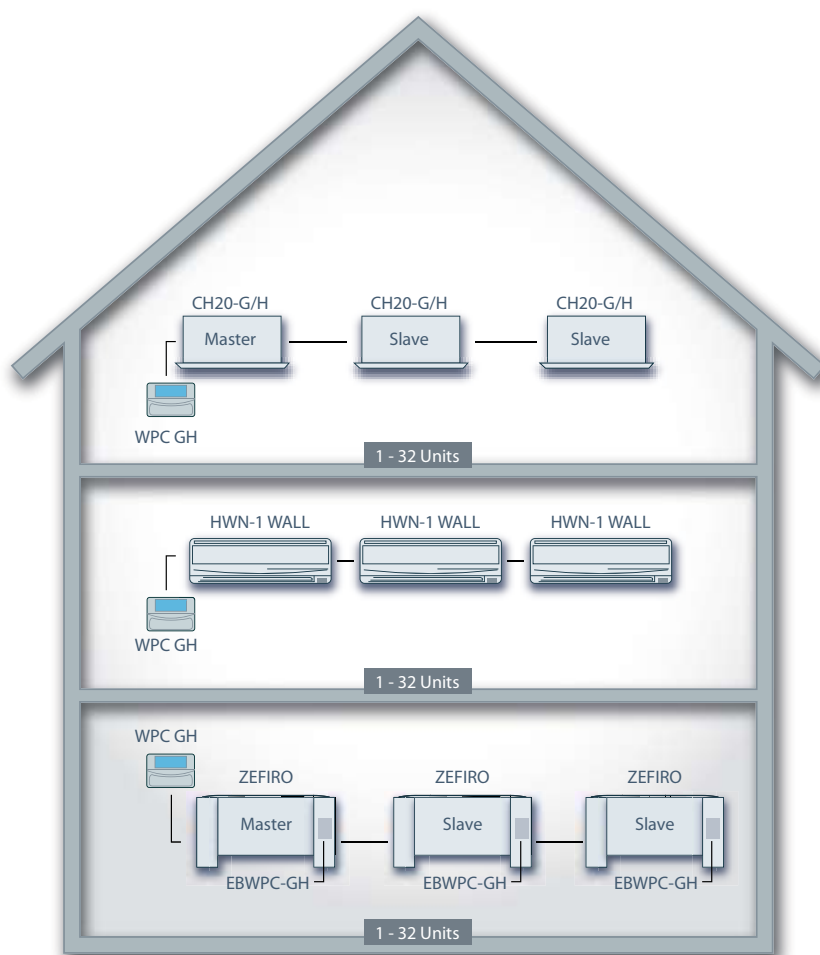
(4) In the proposed scheme, there are 2 separate BMS lines. One line is connecting all the units managed by the Top2 control, the other one is connecting all the units managed by the WPC-GH control.

Even if the logic addresses in the units managed by Top2 and WPC are different, nothing is preventing the BMS Network systemist to realize only 1 line. In this case the software manager has to foresee in the program the units identification and the correct logic parameters.

Control price list


| | Model | Description | Basis functions | Additional Functions |
|--------------|---|-----------------|--|--|
| Wall mounted |  WPC-GH | Digital control | On-Off Summer-Winter automatic selector 3 speed + auto | Low temperature thermostat Weekly programm |
| |  TOP 2 | Digital control | On-Off Summer-Winter automatic selector 3 speed + auto | On-Off valve control Modulating valve control (0-10V) Dirty filter alarm Weekly program Windows contact Low temperature thermostat Modbus predisposition |

ALL IN 1 CONTROL 2 pipes plants



Note 4 pipes solution available only with management of lonely CH20-G/H B1.

Control price list

| | | Model | Description | Basis functions | Additional Functions |
|--------------|---|--------|-----------------|--|---|
| Wall mounted |  | WPC-GH | Digital control | On-Off Summer-Winter automatic selector 3 speed+auto | Low temperature thermostat Weekly programm |

ZEFIRO series

Fancoils for vertical and horizontal installation



Identity

Fancoils available in different versions for vertical and horizontal installation

Certification



Plus



Description

The result of a decade of experience in the air treatment sector, the Zefiro fan coil, reflects all the feedback received from users, installers and designers over the years, now incorporated in the new unit to make it complete in all its features.

Special attention has been paid to ease of installation, thereby significantly reducing time requirements, thanks also to the use of slot-in side panels. The attractive styling, quiet operation, versatility, components of reliable quality, and the massive range of available accessories, make this fan coil ideal for heating and cooling all types of interior spaces.

Stated performance data are guaranteed by the unit's Eurovent certification.

Plus

ALL IN 1 CONTROL

Wall mounted standard control with advanced functions Master/ Slave included to create little networks until 32 units each one.

BMS COMPATIBLE

Possibility to control until 2048 units with DLBMS1 data logger and Modbus protocol or DLBMS2 with Aertesi protocol, even in combination with all the Aertesi terminal units.

QUALITY POINTS

ABS main drain pan to avoid the rusty making because of water stagnation.

EASY DRAIN

Plastic main drain pan with slope to favour the discharge and to avoid the water stagnation, that can make bacterias.

4TIN2T

Accessory proposed to adapt the 2 pipes devices in 4 pipes installations increasing the capacity efficiency with energy savings effects

VERSATILE DOUBLE FACE

"HDP" accessory for the versatility use both in vertical and horizontal of the unit


SMART CABINET

Cover cabinet with 2 flanks easy removable independently by the rest of the unit

SILENT

Extremely silent, on the top level on the Eurovent certified products for sound power performance.

Version

| | | |
|-----------|---|---|
| VA | Vertical with movable grilles |  |
| VB | Vertical mod. with frontal air inlet and frontal panel that can be open to extract filter |  |
| VC | Vertical ceiling version with bottom suction |  |
| VD | Vertical ceiling version with frontal suction |  |
| VE | Concealed vertical with frontal outlet and bottom inlet |  |
| VL | Low Zefiro Low profile vertical version with frontal suction and panel that can be open to extract filter |  |
| VG | Upside Down Concealed vertical with frontal bottom outlet and frontal top inlet |  |
| HA | Horizontal with movable grilles |  |
| HB | Horizontal version with bottom suction and frontal panel that can be open to extract filter |  |
| HC | Horizontal ceiling version with suction on the back side |  |
| HD | Horizontal ceiling version with bottom suction |  |
| VF | Concealed vertical with frontal outlet and frontal inlet |  |
| HL | Low Zefiro Low profile horizontal version with bottom suction and panel that can be open to extract filter |  |

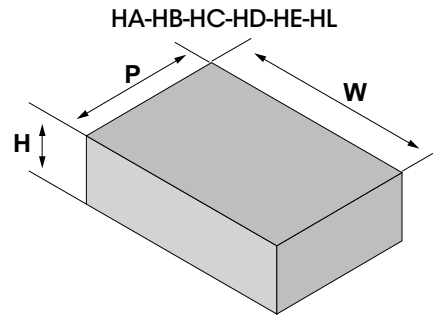
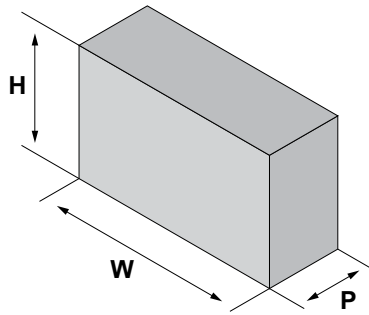
Technical data

| Size | | 308 | 316 | 320 | 628 | 634 | 840 | 847 | 1250 | 1260 | 1575 | 1885 | |
|---|-----------------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| (1) (4) (1) (4) (2) (2) (3) | Nominal technical data | | | | | | | | | | | | |
| | Max air flow | m3/h | 300 | 300 | 300 | 530 | 530 | 730 | 730 | 1130 | 1130 | 1310 | 1850 |
| | Max std.speed of 6 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Total cooling capacity - Super | kW | 1,22 | 1,53 | 1,93 | 2,67 | 3,18 | 4,28 | 5,11 | 5,19 | 6,30 | 7,22 | 10,25 |
| | Total cooling capacity - Max. std | kW | 0,97 | 1,42 | 1,80 | 2,48 | 2,93 | 3,65 | 4,32 | 4,85 | 5,85 | 6,79 | 9,35 |
| | Heating capacity - Super | kW | 2,94 | 3,68 | 4,27 | 6,42 | 7,43 | 9,81 | 11,37 | 12,29 | 14,98 | 16,80 | 22,11 |
| | Heating capacity - Max. std | kW | 2,62 | 3,43 | 3,95 | 5,94 | 6,81 | 8,26 | 9,46 | 11,43 | 13,37 | 15,75 | 20,7 |
| | Heating capacity - Max. std | kW | 1,47 | 1,99 | 2,34 | 3,45 | 3,99 | 4,86 | 5,59 | 6,68 | 7,86 | 9,23 | 12,2 |
| | EH electric heater (Accessories) | kW | 1000 | | | 1250 | | 2000 | | | | 3000 | |
| | Grille | n° | 2 | | | 3 | | 4 | | | | 5 | 6 |
| | Plastic door | n° | 2 | | | | | | | | | | |

- (1) Air 27 °C - 47% (in); Water in/out 7/12°C
 (2) Temperature Air 20 °C (in); Water in/out 70/60 °C
 (3) Temperature Air 20 °C (in); Water in 50 °C
 (4) In compliance with EUROVENT parameters

Dimensions

VA-VB-VC-VD-VE-VF-VL



VA - VB

| Size | | 308 | 316 | 320 | 628 | 634 | 840 | 847 | 1250 | 1260 | 1575 | 1885 |
|------------|----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Dimensions | | | | | | | | | | | | |
| Width / W | mm | 860 | 860 | 860 | 1120 | 1120 | 1380 | 1380 | 1380 | 1380 | 1640 | 1900 |
| Weight / P | mm | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 |
| Height / H | mm | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 |

HA - HB

| Size | | 308 | 316 | 320 | 628 | 634 | 840 | 847 | 1250 | 1260 | 1575 | 1885 |
|------------|----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Dimensions | | | | | | | | | | | | |
| Width / W | mm | 860 | 860 | 860 | 1120 | 1120 | 1380 | 1380 | 1380 | 1380 | 1640 | 1900 |
| Weight / P | mm | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 |
| Height / H | mm | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 |

VC - VD - VE - VF

| Size | | 308 | 316 | 320 | 628 | 634 | 840 | 847 | 1250 | 1260 | 1575 | 1885 |
|------------|----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Dimensions | | | | | | | | | | | | |
| Width / W | mm | 746 | 746 | 746 | 1006 | 1006 | 1266 | 1266 | 1266 | 1266 | 1526 | 1786 |
| Weight / P | mm | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 |
| Height / H | mm | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 |

HC - HD - HE

| Size | | 308 | 316 | 320 | 628 | 634 | 840 | 847 | 1250 | 1260 | 1575 | 1885 |
|------------|----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Dimensions | | | | | | | | | | | | |
| Width / W | mm | 746 | 746 | 746 | 1006 | 1006 | 1266 | 1266 | 1266 | 1266 | 1526 | 1786 |
| Weight / P | mm | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 |
| Height / H | mm | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 |

VL

| Size | | 308 | 316 | 320 | 628 | 634 | 840 | 847 | 1250 | 1260 | 1575 | 1885 |
|------------|----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Dimensions | | | | | | | | | | | | |
| Width / W | mm | 860 | 860 | 860 | 1120 | 1120 | 1380 | 1380 | 1380 | 1380 | 1640 | 1900 |
| Weight / P | mm | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 |
| Height / H | mm | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 |

HL

| Size | | 308 | 316 | 320 | 628 | 634 | 840 | 847 | 1250 | 1260 | 1575 | 1885 |
|------------|----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Dimensions | | | | | | | | | | | | |
| Width / W | mm | 860 | 860 | 860 | 1120 | 1120 | 1380 | 1380 | 1380 | 1380 | 1640 | 1900 |
| Weight / P | mm | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 |
| Height / H | mm | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 |

Controls

| | | | |
|-------------------|---|--------------------------|---|
| Wall mounted |  | CSN N | 3 Speed Selector with S/W switch wall installation |
| |  | SATH N | Electronic thermostat with 3 speed selector and summer/winter selector |
| |  | TOP1 N | Multifunction electronic regulator |
| | | TOP1-0/10V N | Multifunction electronic regulator 0-10V |
| Built In Version |  | CSN-BI | Speed control with E / I board |
| |  | SATH-BI | Electronic thermostat with 3 speed selector and summer/winter selector (built-in version) |
| |  | TOP1-BI | Multifunction electronic regulator (built-in version) |
| | | TOP1-0/10V-BI | 0-10V Multifunction electronic regulator (built-in version) |
| Kit not installed |  | CSN-BI KIT | 3 Speed Selector with S/W switch, (kit not installed for built-in version) |
| |  | SATH-BI KIT | Electronic thermostat with 3 speed selector and summer/winter selector (kit not installed for built-in version) |
| |  | TOP1-BI KIT | Multifunction electronic regulator (kit not installed for built-in version) |
| | | TOP1-0/10V-BI KIT | 0-10V Multifunction electronic regulator (kit not installed for built-in version) |
| |  | ELMZ | "Master/Slave" elevator module (one for each unit) |
| Wall mounted |  | TOP2 | Advanced multifunctions digital control |
| |  | SATH2 | Analogic control |
| Built In Version |  | TOP2-BI | Advanced multifunctions digital control |
| |  | SATH2-BI | Analogic control |
| Kit not installed |  | TOP2-BI KIT | Advanced multifunctions digital control |
| |  | SATH2-BI KIT | Analogic control |

ZEFIRO EC series

Fancoils for vertical and horizontal installation with electronic motor



Identity

Fancoils available in different versions for vertical and horizontal installation
Electronic brushless motor with permanent magnets

Certificazioni



Certification



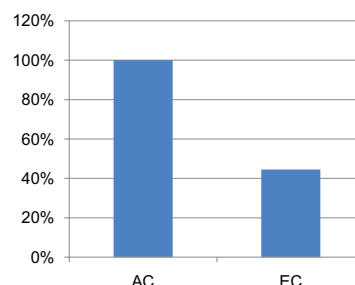
Description

The result of a decade of experience in the air treatment sector, the Zefiro fan coil, reflects all the feedback received from users, installers and designers over the years, now incorporated in the new unit to make it complete in all its features.

Special attention has been paid to ease of installation, thereby significantly reducing time requirements, thanks also to the use of slot-in side panels. The attractive styling, quiet operation, versatility, components of reliable quality, and the massive range of available accessories, make this fan coil ideal for heating and cooling all types of interior spaces.

Stated performance data are guaranteed by the unit's Eurovent certification.

Medium input power %



Plus

BMS COMPATIBLE

Management control until 250 units with TOP2 control without using a data logger accessory and Open Modbus protocol.

QUALITY POINTS

Drain pan made in ABS plastic or painted galvanised steel to avoid rust due to water stagnation.

SUPER SILENT

From 45% to 65% saving in comparison to the traditional motor depending on the different sizes and use. The electronic motor is Brushless version controlled by a signal 0-10Vdc with very low power consumption.

EASY DRAIN

Main drain pan with slope to facilitate the water discharge, and avoid the water stagnation.

VERSATILE DOUBLE FACE

"HDP" accessory for the versatility use both in vertical and horizontal of the unit.

SMART CABINET

Cover cabinet with 2 flanks easy removable independently by the rest of the unit.

ENERGY SAVING

By the 45% to the 55% in comparison to the traditional motor, depending by the size and the end-user utilization way. The motor is a Brushless tipology managed by a signal 0-10Vdc with lowered absorption of energy consumption.

Version

| | | |
|-----------|---|---|
| VA | Vertical with movable grilles |  |
| VB | Vertical mod. with frontal air inlet and frontal panel that can be open to extract filter |  |
| VC | Vertical ceiling version with bottom suction |  |
| VD | Vertical ceiling version with frontal suction |  |
| VE | Concealed vertical with frontal outlet and bottom inlet |  |
| VL | Low Zefiro Low profile vertical version with frontal suction and panel that can be open to extract filter |  |
| VG | Upside Down Concealed vertical with frontal bottom outlet and frontal top inlet |  |
| HA | Horizontal with movable grilles |  |
| HB | Horizontal version with bottom suction and frontal panel that can be open to extract filter |  |
| HC | Horizontal ceiling version with suction on the back side |  |
| HD | Horizontal ceiling version with bottom suction |  |
| VF | Concealed vertical with frontal outlet and frontal inlet |  |
| HL | Low Zefiro Low profile horizontal version with bottom suction and panel that can be open to extract filter |  |

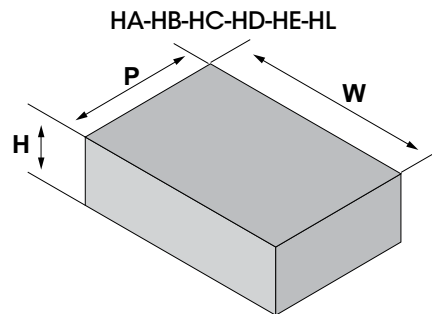
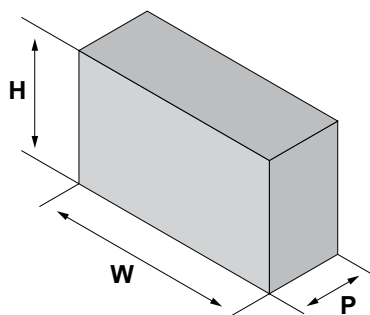
Technical data

| Size | | 308 | 316 | 320 | 628 | 634 | 840 | 847 | 1250 | 1260 | 1575 | 1885 | |
|--------------------------|------------------------------|------|------|------|------|------|------|------|-------|-------|-------|------|------|
| (1) (4) (2) (3) | Nominal technical data | | | | | | | | | | | | |
| | Max air flow | m3/h | 330 | 330 | 330 | 590 | 590 | 916 | 916 | 1249 | 1249 | N.A. | N.A. |
| | Total cooling capacity - Max | kW | 1,22 | 1,53 | 1,93 | 2,67 | 3,18 | 4,28 | 5,11 | 5,19 | 6,30 | N.A. | N.A. |
| | Heating capacity - Max | kW | 2,94 | 3,68 | 4,27 | 6,42 | 7,43 | 9,81 | 11,37 | 12,29 | 14,98 | N.A. | N.A. |
| | Heating capacity - Max. std | kW | 1,69 | 2,14 | 2,52 | 3,74 | 4,35 | 5,77 | 6,71 | 7,19 | 8,77 | N.A. | N.A. |
| | Grille | n° | 2 | | | 3 | | | 4 | | | N.A. | N.A. |
| | Plastic door | n° | 2 | | | | | | | | | | |

- (1) Air 27 °C - 47% (in); Water in/out 7/12°C
 (2) Temperature Air 20 °C (in); Water in/out 70/60 °C
 (3) Temperature Air 20 °C (in); Water in 50 °C
 (4) In compliance with EUROVENT parameters

Dimensions

VA-VB-VC-VD-VE-VF-VL



VA - VB

| Size | | 308 | 316 | 320 | 628 | 634 | 840 | 847 | 1250 | 1260 | 1575 | 1885 |
|------------|----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Dimensions | | | | | | | | | | | | |
| Width / W | mm | 860 | 860 | 860 | 1120 | 1120 | 1380 | 1380 | 1380 | 1380 | 1640 | 1900 |
| Weight / P | mm | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 |
| Height / H | mm | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 |

HA - HB

| Size | | 308 | 316 | 320 | 628 | 634 | 840 | 847 | 1250 | 1260 | 1575 | 1885 |
|------------|----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Dimensions | | | | | | | | | | | | |
| Width / W | mm | 860 | 860 | 860 | 1120 | 1120 | 1380 | 1380 | 1380 | 1380 | 1640 | 1900 |
| Weight / P | mm | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 | 586 |
| Height / H | mm | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 |

VC - VD - VE - VF

| Size | | 308 | 316 | 320 | 628 | 634 | 840 | 847 | 1250 | 1260 | 1575 | 1885 |
|------------|----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Dimensions | | | | | | | | | | | | |
| Width / W | mm | 746 | 746 | 746 | 1006 | 1006 | 1266 | 1266 | 1266 | 1266 | 1526 | 1786 |
| Weight / P | mm | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 |
| Height / H | mm | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 |

HC - HD - HE

| Size | | 308 | 316 | 320 | 628 | 634 | 840 | 847 | 1250 | 1260 | 1575 | 1885 |
|------------|----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Dimensions | | | | | | | | | | | | |
| Width / W | mm | 746 | 746 | 746 | 1006 | 1006 | 1266 | 1266 | 1266 | 1266 | 1526 | 1786 |
| Weight / P | mm | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 | 460 |
| Height / H | mm | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 | 217 |

VL

| Size | | 308 | 316 | 320 | 628 | 634 | 840 | 847 | 1250 | 1260 | 1575 | 1885 |
|------------|----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Dimensions | | | | | | | | | | | | |
| Width / W | mm | 860 | 860 | 860 | 1120 | 1120 | 1380 | 1380 | 1380 | 1380 | 1640 | 1900 |
| Weight / P | mm | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 |
| Height / H | mm | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 |

HL

| Size | | 308 | 316 | 320 | 628 | 634 | 840 | 847 | 1250 | 1260 | 1575 | 1885 |
|------------|----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Dimensions | | | | | | | | | | | | |
| Width / W | mm | 860 | 860 | 860 | 1120 | 1120 | 1380 | 1380 | 1380 | 1380 | 1640 | 1900 |
| Weight / P | mm | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 | 486 |
| Height / H | mm | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 | 222 |

Controls

| | | | | | |
|-------------------|---|-----------------------|---|--|--|
| Wall mounted |  | TOP2EC | Advanced multifunctions digital control | On-Off Summer-Winter automatic selector Continuously speed by signal 0-10V | On-Off valve control Dirty filter alarm Weekly program Windows contact Low temperature thermostat Modbus predisposition |
| |  | SATH2EC | Analogic control for EC motors | On-Off Summer-Winter selector Continuously speed by signal 0-10V | On-off valve control |
| Built In Version |  | TOP2-BI EC | Advanced multifunctions digital control | On-Off Summer-Winter automatic selector Continuously speed by signal 0-10V | On-Off valve control Dirty filter alarm Weekly program Windows contact Low temperature thermostat Modbus predisposition |
| |  | SATH2EC-BI | Analogic control for EC motors | On-Off Summer-Winter selector Continuously speed by signal 0-10V | On-off valve control |
| Kit not installed |  | TOP2-BI KIT | Advanced multifunctions digital control | On-Off Summer-Winter automatic selector Continuously speed by signal 0-10V | On-Off valve control Dirty filter alarm Weekly program Windows contact Low temperature thermostat Modbus predisposition |
| |  | SATH2EC-BI KIT | Analogic control for EC motors | On-Off Summer-Winter selector Continuously speed by signal 0-10V | On-off valve control |

Note: With the controls TOP2EC, SATH2EC the use of modulating valves is not necessary

Zefiro Serie with built-in casing predisposition

Fancoils for vertical and horizontal installation



Identity

Fancoils available in different versions for vertical and horizontal installation

Certification



Plus



Description

The result of a decade of experience in the air treatment sector, the Zefiro fan coil, reflects all the feedback received from users, installers and designers over the years, now incorporated in the new unit to make it complete in all its features.

Special attention has been paid to ease of installation, thereby significantly reducing time requirements, thanks also to the use of slot-in side panels. The attractive styling, quiet operation, versatility, components of reliable quality, and the massive range of available accessories, make this fan coil ideal for heating and cooling all types of interior spaces.

Stated performance data are guaranteed by the unit's Eurovent certification.

Plus

QUALITY POINTS

Refined and elegant design for inclusion in even the most demanding residential aesthetically. Its structure facilitates the masonry during construction of the niche where the fan-coil will be installed. Inserted in the casing, the fan-coil will be completely hidden from view. The air intake and outlet air have manual flap to allow for better air distribution. The template provides for pre-cut to break on all sides to facilitate hydraulic and electrical connections from all directions.

ALL IN 1 CONTROL

Wall mounted standard control with advanced functions Master/ Slave included to create little networks until 32 units each one.



BMS COMPATIBLE

Management control until 250 units with TOP2 control without using a data logger accessory and Open Modbus protocol.

EASY DRAIN

Plastic main drain pan with slope to favour the discharge and to avoid the water stagnation, that can make bacteria, for the vertical versions.

SILENT

Extremely noiseless at the top level of the Eurovent certified companies because of the sound power performances.

Zefiro versions combined

VG

Upside Down
Concealed vertical with frontal bottom outlet and frontal top inlet



VC

Concealed vertical with movable air intake



VD

Concealed vertical with movable air intake



VF

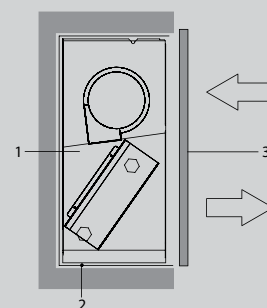
Concealed vertical with frontal outlet and frontal inlet



Built-in casing configurations

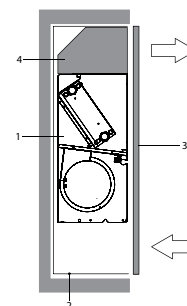
A

1. VG Fancoil
2. CCM-VG Built-in casing
3. MPK-VG Metal covering panel with grills
- WPK-VG Wooden covering panel with grills



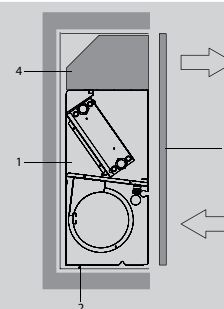
B

1. VC Fancoil
2. CCM-VC Built-in casing
3. MPK-VC Metal covering panel with grills
- WPK-VC Wooden covering panel with grills
4. PM90ZE Outlet Plenum 90°
- COIB PM Plenum insulation



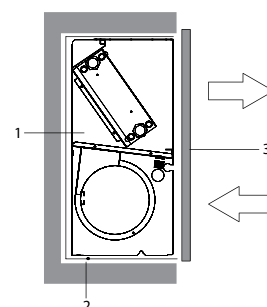
C

1. VD Fancoil
2. CCM-VD Built-in casing
3. MPK-VD Metal covering panel with grills
- WPK-VD Wooden covering panel with grills
4. PM90ZE Outlet Plenum 90°
- COIB PM Plenum insulation



D

1. VF Fancoil
2. CCM-VF Built-in casing
3. MPK-VF Metal covering panel with grills
- WPK-VF Wooden covering panel with grills

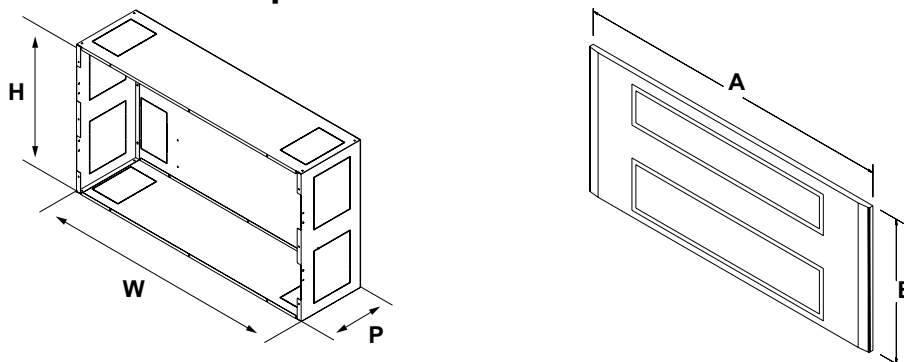


Technical data

| Size | | 308 | 316 | 320 | 628 | 634 | 840 | 847 | 1250 | 1260 | 1575 | 1885 |
|-----------------------------------|-------------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| Nominal technical data | | | | | | | | | | | | |
| Max air flow | m ³ /h | 300 | 300 | 300 | 530 | 530 | 730 | 730 | 1130 | 1130 | 1310 | 1850 |
| Max std. speed of 6 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Total cooling capacity - Super | kW | 1,22 | 1,53 | 1,93 | 2,67 | 3,18 | 4,28 | 5,11 | 5,19 | 6,30 | 7,22 | 10,25 |
| Total cooling capacity - Max. std | kW | 0,97 | 1,42 | 1,80 | 2,48 | 2,93 | 3,65 | 4,32 | 4,85 | 5,85 | 6,79 | 9,35 |
| Heating capacity - Super | kW | 2,94 | 3,68 | 4,27 | 6,42 | 7,43 | 9,81 | 11,37 | 12,29 | 14,98 | 16,80 | 22,11 |
| Heating capacity - Max. std | kW | 2,62 | 3,43 | 3,95 | 5,94 | 6,81 | 8,26 | 9,46 | 11,43 | 13,37 | 15,75 | 20,7 |
| Heating capacity - Max. std | kW | 1,47 | 1,99 | 2,34 | 3,45 | 3,99 | 4,86 | 5,59 | 6,68 | 7,86 | 9,23 | 12,2 |

- (1) Air 27 °C - 47% (in); Water in/out 7/12 °C
- (2) Temperature Air 20 °C (in); Water in/out 70/60 °C
- (3) Temperature Air 20 °C (in); Water in 50 °C
- (4) In compliance with EUROVENT parameters

Dimensions and service spaces



A CONFIGURATION - VG

| Size | | 308 | 316 | 320 | 628 | 634 | 840 | 847 | 1250 | 1260 | 1575 | 1885 |
|------------|----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Dimensions | | | | | | | | | | | | |
| Width / W | mm | 860 | 860 | 860 | 1120 | 1120 | 1380 | 1380 | 1380 | 1380 | 1640 | 1900 |
| Weight / P | mm | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 |
| Height / H | mm | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 |
| Panel | | | | | | | | | | | | |
| A | mm | 880 | 880 | 880 | 1140 | 1140 | 1400 | 1400 | 1400 | 1400 | 1660 | 1920 |
| B | mm | 525 | 525 | 525 | 525 | 525 | 525 | 525 | 525 | 525 | 525 | 525 |

B CONFIGURATION - VC

| Size | | 308 | 316 | 320 | 628 | 634 | 840 | 847 | 1250 | 1260 | 1575 | 1885 |
|------------|----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Dimensions | | | | | | | | | | | | |
| Width / W | mm | 860 | 860 | 860 | 1120 | 1120 | 1380 | 1380 | 1380 | 1380 | 1640 | 1900 |
| Weight / P | mm | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 |
| Height / H | mm | 790 | 790 | 790 | 790 | 790 | 790 | 790 | 790 | 790 | 790 | 790 |
| Panel | | | | | | | | | | | | |
| A | mm | 880 | 880 | 880 | 1140 | 1140 | 1400 | 1400 | 1400 | 1400 | 1660 | 1920 |
| B | mm | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 | 810 |

C CONFIGURATION - VD

| Size | | 308 | 316 | 320 | 628 | 634 | 840 | 847 | 1250 | 1260 | 1575 | 1885 |
|------------|----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Dimensions | | | | | | | | | | | | |
| Width / W | mm | 860 | 860 | 860 | 1120 | 1120 | 1380 | 1380 | 1380 | 1380 | 1640 | 1900 |
| Weight / P | mm | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 |
| Height / H | mm | 690 | 690 | 690 | 690 | 690 | 690 | 690 | 690 | 690 | 690 | 690 |
| Panel | | | | | | | | | | | | |
| A | mm | 880 | 880 | 880 | 1140 | 1140 | 1400 | 1400 | 1400 | 1400 | 1660 | 1920 |
| B | mm | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 | 710 |

D CONFIGURATION - VF

| Size | | 308 | 316 | 320 | 628 | 634 | 840 | 847 | 1250 | 1260 | 1575 | 1885 |
|------------|----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Dimensions | | | | | | | | | | | | |
| Width / W | mm | 860 | 860 | 860 | 1120 | 1120 | 1380 | 1380 | 1380 | 1380 | 1640 | 1900 |
| Weight / P | mm | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 |
| Height / H | mm | 490 | 490 | 490 | 490 | 490 | 490 | 490 | 490 | 490 | 490 | 490 |
| Panel | | | | | | | | | | | | |
| A | mm | 880 | 880 | 880 | 1140 | 1140 | 1400 | 1400 | 1400 | 1400 | 1660 | 1920 |
| B | mm | 510 | 510 | 510 | 510 | 510 | 510 | 510 | 510 | 510 | 510 | 510 |

WET ZEFIRO series

Fancoils with temperature and humidity control



Identity

Integrated isothermal humidifier
2 or 4 pipes system plant

Certification



Plus



Description

The ideal temperature. The perfect humidity rate. A comfortable climate, in one Zefiro.

This concept lies at the base of the revolutionary system Wet Zefiro by Aertesi, conceived, designed and manufactured to combine the benefits of a fan convector and of an isothermal humidifier.

Complete with all its accessories, Wet Zefiro is a miniature air conditioning station to get the ultimate air quality and climate in summer and winter alike, that is a perfect balance between temperature and humidity.

Plus

CLIMA TIME

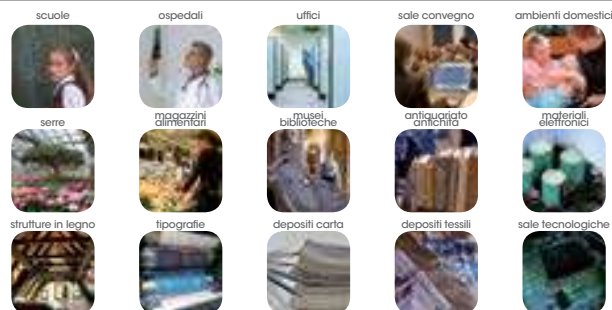
Integrated control of temperature and humidity. The logic of operation is as follows: once the temperature set-point is reached, the valves will cut water supply to the exchange battery. However, if the required humidity rate is not reached, the fans will not stop. This way, proper vapour distribution into the environment is ensured.

QUALITY POINT

More easy, less incumbrance and cheaper installation; easier control management (only one control); mixed steam-air for a more homogeneous distribution; adaptability and flexibility thanks the possibility to control the humidity and temperature of different and specific areas of the building.

FLEX

Simple solution at low installation cost that permit to solve specific thermo-hygrometric in different application sectors (museum, bibliotecary, show room, vegetable shops, food sector).



ENERGY SAVING

Compact isothermal humidifier at bathed electrodes with simply tap water. The steam output is controlled in consideration of the real need, the result is a consum energy decrease and a precise maintaining of the humidity set point. The thermic energy of the water to create the steam is transferred in the environmental, and so combined to the heating=energy efficiency.

HEALTH

regenerable filter with zinc metal sheet frame and filter sections in synthetic acrylic fibre. G2 class of filtration class Treated with AEmina®, a powerful long-lasting anti-bacterial substance.

The humidification is generating making steam at 100°, that kill all the bacterias located in the distribution pipe before the steam come out. Falling down the thin powder reducing the allergic effects

EASY WET

The advantageages of the isotherm humidification: a) greater salt minerals reduction in the air; b) no rain falling humidity on the object surfaces; c) not decrease the winter temperature making humidificaton

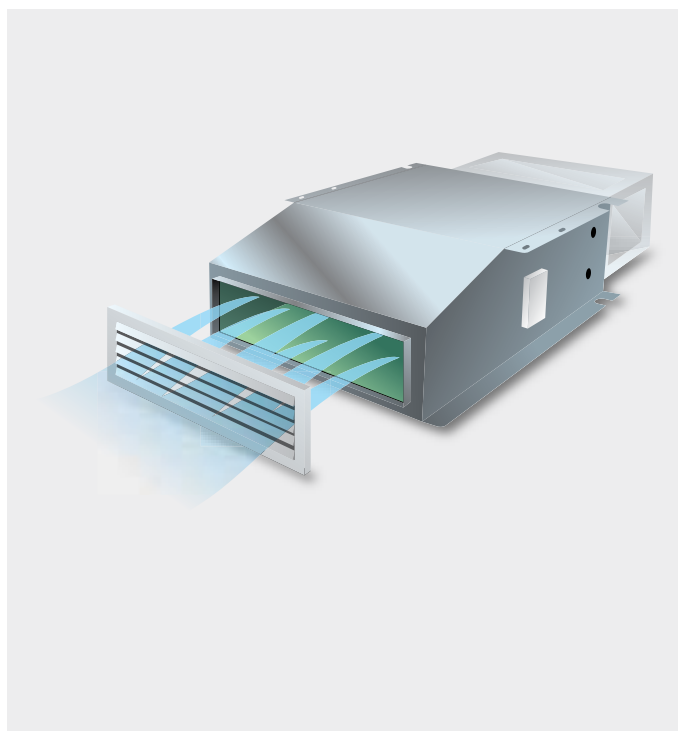
Technical data

| Size | | 308 | 316 | 320 | 628 | 634 | 840 | 847 | 1250 | 1260 | 1575 | |
|--|-----------------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| (1) (1) (2) (4) (2) (4) (3) (4) | Nominal technical data | | | | | | | | | | | |
| | Max air flow | m3/h | 300 | 300 | 300 | 530 | 530 | 730 | 730 | 1130 | 1130 | 1310 |
| | Max std.speed of 6 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Vapour output | Kg/h | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| | Total cooling capacity - Super | kW | 1,22 | 1,53 | 1,93 | 2,67 | 3,18 | 4,28 | 5,11 | 5,19 | 6,30 | 7,22 |
| | Total cooling capacity - Max. std | kW | 0,97 | 1,42 | 1,80 | 2,48 | 2,93 | 3,65 | 4,32 | 4,85 | 5,85 | 6,79 |
| | Heating capacity - Super | kW | 2,94 | 3,68 | 4,27 | 6,42 | 7,43 | 9,81 | 11,37 | 12,29 | 14,98 | 16,80 |
| | Heating capacity - Max. std | kW | 2,62 | 3,43 | 3,95 | 5,94 | 6,81 | 8,26 | 9,46 | 11,43 | 13,37 | 15,75 |
| | Heating capacity | kW | 1,47 | 1,99 | 2,34 | 3,45 | 3,99 | 4,86 | 5,59 | 6,68 | 7,86 | 9,23 |
| | Grilles | n° | 3 | | | 4 | | 5 | | | | 6 |
| Doors | n° | 2 | | | | | | | | | | |

- (1) Temperature: Air 27 °C - 47% (in); Water in/out 7/12°C
- (2) Temperature Air 20 °C (in); Water in/out 70/60 °C
- (3) Temperature Air 20 °C (in); Water in 50 °C
- (4) In compliance with EUROVENT parameters

LNH series

Maximum silent fancoil for hotels, hospitals, homes



Identity

They are perfect for hotels, hospitals, and houses
Concealed unit

Version

2 pipe

Certification

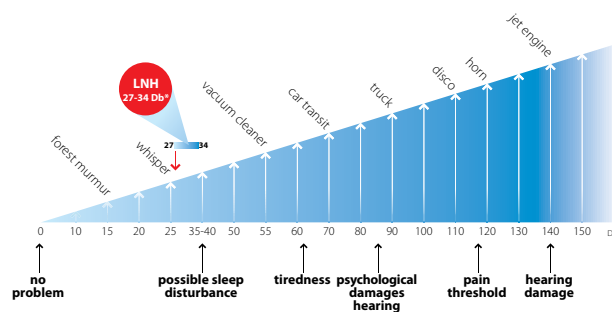


Plus



Description

The underceiling fancoil "LNH" is studied to obtain the maximum energy comfort with the maximum performance in sound level hardly reachable with air terminal units (split, fancoils). Their performances make it the ideal product for every kind of installations that have to ensure the best respect of strictly sound level rules.



* As referred to measurement models from 03 to 08 at the minimum speed

Plus

ALL IN 1 CONTROL

Wall mounted standard control with advanced functions Master/ Slave included to create little networks until 32 units each one.

BMS COMPATIBLE

Possibility to control until 2048 units with DLBMS1 data logger and Modbus protocol or DLBMS2 with Aertesi protocol, even in combination with all the Aertesi terminal units. Availability of the centralized management software SFTMB

SUPERSILENT

Extremely silent thanks to their technical features: the accurate study of an integrated silencer plenum and the utilize of a particular insulation with high soundproof power

ECO

The insulation material of the plenum and of the metal sheet body is realized with ecological material (Recycled fibre in polyester) at less environmental impact and closed cells to ensure a more sanitized impact.

4TIN2T

Accessory proposed to adapt the 2 pipes devices in 4 pipes installations increasing the capacity efficiency with energy savings effects

EASY SERVICE

LNH is designed for the maximum maintenance comfort: the fan, like the main drain pan and the coil are both inspectable and removable with the same procedure.

Technical data

| Size | | 3 | 6 | 8 | 12 |
|---------------------------|------|-------|------|------|------|
| Air flow | | | | | |
| 1 | | 375 | 610 | 990 | 1338 |
| 2 Max | | 343 | 548 | 789 | 1256 |
| 3 | m3/h | 294 | 469 | 710 | 1103 |
| 4 Med | | 253 | 383 | 632 | 958 |
| 5 Min | | 203 | 328 | 470 | 696 |
| 6 | | 167 | 310 | 421 | 642 |
| Total cooling capacity | | | | | |
| 1 | | 2,2 | 3,59 | 5,82 | 7,21 |
| 2 Max | | 2,06 | 3,3 | 4,87 | 6,7 |
| 3 | kW | 1,82 | 2,91 | 4,55 | 6,26 |
| 4 Med | | 1,7 | 2,46 | 4,15 | 5,62 |
| 5 Min | | 1,33 | 2,15 | 3,25 | 4,36 |
| 6 | | 1,19 | 2,05 | 3,00 | 4,2 |
| Sensible cooling capacity | | | | | |
| 1 | | 1,69 | 2,77 | 4,48 | 5,71 |
| 2 Max | | 1,57 | 2,53 | 3,68 | 5,42 |
| 3 | kW | 1,37 | 2,2 | 3,36 | 4,87 |
| 4 Med | | 1,2 | 1,84 | 3,03 | 4,32 |
| 5 Min | | 0,986 | 1,6 | 2,31 | 3,28 |
| 6 | | 0,823 | 1,52 | 2,09 | 3,05 |
| Water flow | | | | | |
| 1 | | 379 | 617 | 1000 | 1238 |
| 2 Max | | 354 | 567 | 836 | 1184 |
| 3 | l/h | 313 | 500 | 768 | 1076 |
| 4 Med | | 275 | 423 | 697 | 967 |
| 5 Min | | 229 | 370 | 541 | 750 |
| 6 | | 193 | 353 | 491 | 701 |
| Pressure drop | | | | | |
| 1 | | 13,6 | 6,28 | 19,1 | 28 |
| 2 Max | | 12 | 5,39 | 13,8 | 25,8 |
| 3 | kPa | 9,6 | 4,3 | 11,9 | 21,8 |
| 4 Med | | 7,65 | 3,18 | 10,0 | 17,9 |
| 5 Min | | 5,49 | 2,51 | 6,3 | 11,3 |
| 6 | | 4,02 | 2,29 | 5,3 | 10,1 |
| Heating capacity | | | | | |
| 1 | | 4,75 | 8,2 | 12,8 | 16,8 |
| 2 Max | | 4,4 | 7,5 | 10,7 | 14,9 |
| 3 | kW | 3,8 | 6,7 | 9,8 | 14,5 |
| 4 Med | | 3,6 | 5,4 | 8,9 | 12,1 |
| 5 Min | | 2,78 | 4,68 | 6,82 | 9,4 |
| 6 | | 2,45 | 4,5 | 6,3 | 8,83 |
| Water flow | | | | | |
| 1 | | 426 | 735 | 1116 | 1473 |
| 2 Max | | 394 | 674 | 929 | 1314 |
| 3 | l/h | 342 | 585 | 848 | 1232 |
| 4 Med | | 297 | 473 | 780 | 1058 |
| 5 Min | | 238 | 409 | 595 | 825 |
| 6 | | 201 | 392 | 542 | 784 |
| Pressure drop | | | | | |
| 1 | | 13 | 5,5 | 22,0 | 32 |
| 2 Max | | 10 | 4,9 | 15,0 | 27 |
| 3 | kPa | 8,5 | 4 | 13,4 | 23 |
| 4 Med | | 6 | 3 | 12,0 | 12 |
| 5 Min | | 4,8 | 2 | 8,0 | 7,2 |
| 6 | | 3 | 1,7 | 6,0 | 6 |
| Max air flow | | | | | |
| 1 | | 375 | 610 | 990 | 1338 |
| 2 Max | | 343 | 548 | 789 | 1256 |
| 3 | m3/h | 294 | 469 | 710 | 1103 |
| 4 Med | | 253 | 383 | 632 | 958 |
| 5 Min | | 203 | 328 | 470 | 696 |
| 6 | | 167 | 310 | 421 | 642 |

| Size | | 3 | 6 | 8 | 12 |
|-------------------------------------|-------|------|------|-------|------|
| Heating capacity | | | | | |
| (3) | 1 | 2,85 | 4,61 | 7,41 | 9,52 |
| | 2 Max | 2,64 | 4,2 | 6,09 | 9,04 |
| | 3 | 2,31 | 3,66 | 5,55 | 8,12 |
| | 4 Med | 2,1 | 3,05 | 5,00 | 7,2 |
| | 5 Min | 1,64 | 2,65 | 3,80 | 5,44 |
| | 6 | 1,45 | 2,51 | 3,44 | 5,06 |
| Water flow | | | | | |
| (3) | 1 | 379 | 617 | 1000 | 1238 |
| | 2 Max | 354 | 567 | 836 | 1184 |
| | 3 | 313 | 500 | 768 | 1076 |
| | 4 Med | 275 | 423 | 697 | 967 |
| | 5 Min | 229 | 370 | 541 | 750 |
| | 6 | 193 | 353 | 491 | 701 |
| Pressure drop | | | | | |
| (3) | 1 | 11,4 | 5,27 | 16,00 | 23,5 |
| | 2 Max | 10,1 | 4,53 | 11,60 | 21,7 |
| | 3 | 8,07 | 3,61 | 9,94 | 18,3 |
| | 4 Med | 6,4 | 2,67 | 8,37 | 15,1 |
| | 5 Min | 4,6 | 2,1 | 5,29 | 9,53 |
| | 6 | 3,38 | 1,93 | 4,46 | 8,46 |
| B1 additional coil heating capacity | | | | | |
| (2) | 1 | 2,31 | 3,85 | 5,79 | 7,03 |
| | 2 Max | 2,18 | 3,58 | 4,98 | 6,75 |
| | 3 | 1,99 | 3,27 | 4,64 | 6,21 |
| | 4 Med | 1,79 | 2,83 | 4,35 | 5,66 |
| | 5 Min | 1,52 | 2,52 | 3,51 | 4,64 |
| | 6 | 1,32 | 2,42 | 3,24 | 4,4 |
| B1 additional coil water flow | | | | | |
| (2) | 1 | 202 | 336 | 506 | 614 |
| | 2 Max | 190 | 313 | 435 | 590 |
| | 3 | 174 | 286 | 406 | 534 |
| | 4 Med | 156 | 247 | 380 | 495 |
| | 5 Min | 133 | 221 | 307 | 406 |
| | 6 | 115 | 212 | 283 | 384 |
| B1 additional coil pressure drop | | | | | |
| (2) | 1 | 5,78 | 20 | 7,40 | 10,5 |
| | 2 Max | 5,21 | 17,6 | 5,65 | 6,77 |
| | 3 | 4,43 | 14,9 | 4,97 | 8,41 |
| | 4 Med | 3,65 | 11,5 | 4,43 | 7,12 |
| | 5 Min | 2,75 | 9,38 | 3,01 | 4,98 |
| | 6 | 2,11 | 8,69 | 2,61 | 4,52 |
| Sound power | | | | | |
| (2) | 1 | 47 | 44 | 52 | 59 |
| | 2 Max | 42,9 | 40,8 | 48 | 56,9 |
| | 3 | 39 | 37,4 | 45 | 53,5 |
| | 4 Med | 36,9 | 37 | 42 | 50,3 |
| | 5 Min | 30 | 32 | 34 | 45 |
| | 6 | 27 | 30 | 31 | 45,2 |
| Max power input | | | | | |
| 1 | W | 40 | 55 | 108 | 170 |
| 1 | A | 0,19 | 0,24 | 0,47 | 0,75 |
| Accessories | | | | | |
| Outlet plenum | n° | 1 | 2 | 3 | |
| Outlet plenum diameter | mm | | 160 | | |
| EH electric heater (Accessories) | kW | 1000 | 1250 | 2000 | |

- (1) Temperature: Air 27 °C - 47%
Water In/Out 7/12 °C
- (2) Temperature: Air 20 °C
Water In/Out 70/60 °C
- (3) Temperature: Air 20 °C
Inside water 50 °C
- (4) In compliance with EUROVENT parameters

Controls

| | | | |
|-----------------|---|---------------------|--|
| Wall mounted |  | CSN N | 3 Speed Selector with S/W switch wall installation |
| |  | SATH N | Electronic thermostat with 3 speed selector and summer/winter selector |
| |  | TOP1 N | Multifunction electronic regulator |
| | | TOP1-0/10V N | Multifunction electronic regulator 0-10V |
| |  | TOP2 | Advanced multifunctions digital control |
| |  | SATH2 | Analogic control |

Series UTW SB

Ductable fan coil for heating, air conditioning, and mixed systems, with external static pressure of 70 Pa.



Identity

Horizontal ducted installation
External static pressure 70 Pa

Certifications



Plus



Description

UTW SB Series terminals are specially made for use in duct heating, air conditioning and mixed systems.

The fans are high head units, dimensioned to give a pressure of 70 Pa at nominal flow.

Plus

SILENT

Fans electronically balanced to combat induced vibrations. 10 mm thick soundproofing material. 10 mm thick soundproofing material. Thick galvanised zinc panels.

ALL IN 1 CONTROL

Wall mounted standard control with advanced functions Master/Slave included to create little networks until 32 units each one.

BMS COMPATIBLE

Possibility to control until 2048 units with DLBMS1 data logger and Modbus protocol or DLBMS2 with Aertesi protocol, even in combination with all the Aertesi terminal units.

ENERGY SAVING

The heat exchangers are Cu/Al continuous fin, 3 row (models 19, 31, 41 and 61) and 4 row (models 21, 36 and 81) with high efficiency reverse flow circuits for water operation. A 1 row exchanger can be added to 4 tube systems (or a 2 row exchanger in the case of low temperature systems).

Plastic fans with low power consumption on most sizes

FLEX

Hydraulic connections can be reversed on site.
Reversible air outlet configuration.

EASY SERVICE

Easy access to the air filter for replacement or cleaning

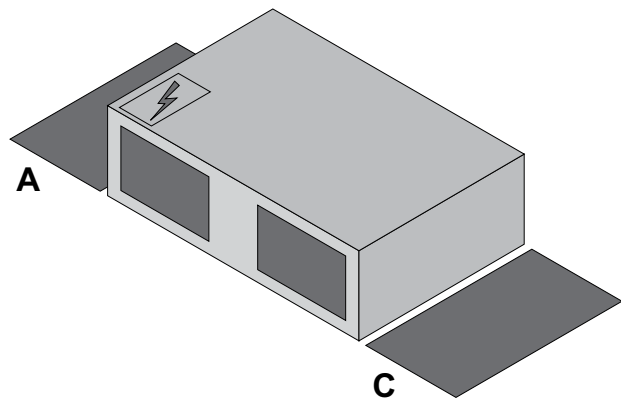
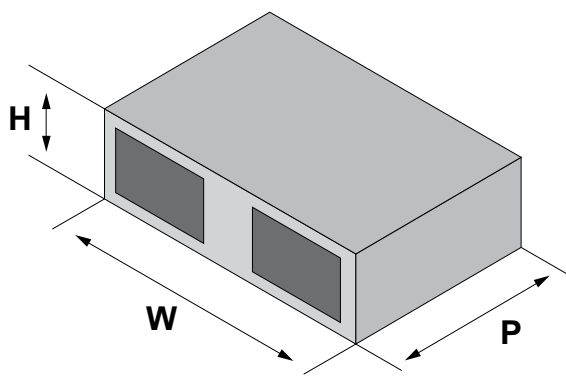
Technical data

| Size | | 15 | 19 | 21 | 31 | 36 | 38 | 40 | 41 | 61 | 81 | |
|------------|-------------------------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| General | | | | | | | | | | | | |
| (1) | Max air flow | m3/h | 995 | | 1178 | 1652 | 1835 | 2042 | 2505 | 2996 | 3211 | 3948 |
| | Cooling performances | | | | | | | | | | | |
| | Total cooling capacity | kW | 3,68 | 5,32 | 7,07 | 9,26 | 11,61 | 12,47 | 13,83 | 17,52 | 18,39 | 24,69 |
| (2) (1) | Heating performances | | | | | | | | | | | |
| | Heating capacity | kW | 8,97 | 10,2 | 13,39 | 17,38 | 21,77 | 26,97 | 31,78 | 32,75 | 34,6 | 46,44 |
| | Electric heater (accessories) | W | 2500 | | 4500 | 6000 | | | | | | |

(1) Air flow with static pressure 70 Pa

(2) Air temperature 27°C - 50%; Water temperature in/out 7/12°C.

Dimensioni e spazi funzionali



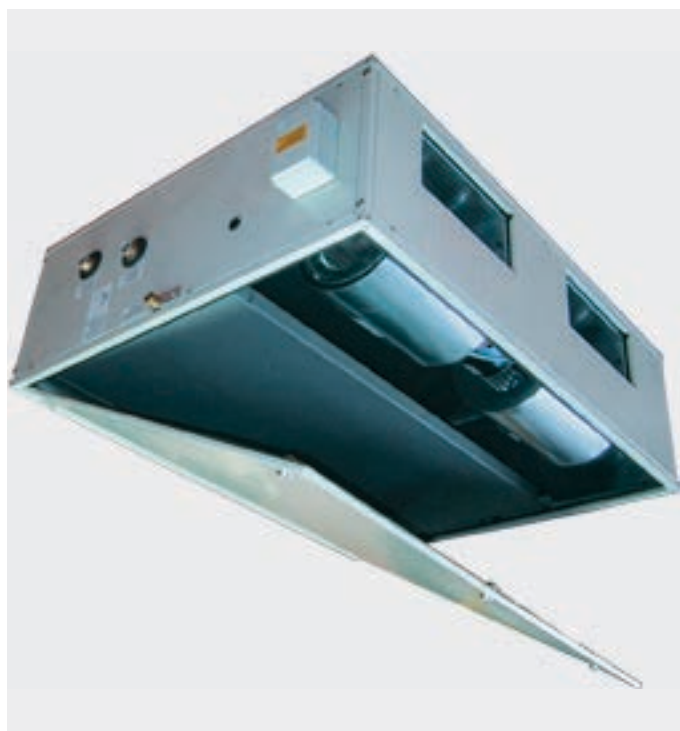
| Size | 15 | | 19 | | 21 | | 31 | | 36 | | 38 | | 40 | | 41 | | 61 | | 81 | | | |
|------|------------------|----|-----|----|----|--|------|------|----|----|------|------|----|----|----|--|----|--|----|--|--|--|
| | Dimensions | | | | | | | | | | | | | | | | | | | | | |
| (1) | Width/W | mm | 603 | | | | 1103 | | | | 1303 | | | | | | | | | | | |
| (2) | Width/W | mm | 603 | | | | 1103 | | | | 1303 | | | | | | | | | | | |
| | Depth/P | mm | 502 | | | | | | | | 655 | | | | | | | | | | | |
| | High/H | mm | 298 | | | | | | | | 473 | | | | | | | | | | | |
| | Operating weight | Kg | 36 | 37 | | | | 37.5 | 54 | 57 | 89 | 89.5 | 90 | 96 | | | | | | | | |
| | Service areas | | | | | | | | | | | | | | | | | | | | | |
| | A | mm | 600 | | | | | | | | | | | | | | | | | | | |
| | C | mm | 500 | | | | | | | | | | | | | | | | | | | |

(1) Air temperature 20°C; Water temperature from boiler 70/60°C.

(2) Air flow with static pressure 70 Pa

Series GHIBLI

Ductable fan coil for heating, air conditioning, and mixed systems, with external static pressure of 150 Pa.



Identity

Horizontal ducted installation
External static pressure 150 Pa
Low profile
Double panels

Certifications



Plus



Description

The Ghibli range units are designed and built for all those applications where minimum thickness is an essential requirement. Manufactured in 7 models with nominal air flows from 1040 m³/h to 6450 m³/h and with 150Pa head, they are suitable for very many applications in the civil, commercial and industrial sectors. The quality of finishes makes this range of units suitable for exposed installation.

Plus

ALL IN 1 CONTROL

Wall mounted standard control with advanced functions Master/Slave included to create little networks until 32 units each one.

BMS COMPATIBLE

Possibility to control until 2048 units with DLBMS1 data logger and Modbus protocol or DLBMS2 with Aertesi protocol, even in combination with all the Aertesi terminal units.

QUALITY POINTS

The structure is made with exclusive profiles and pre-painted double-shell steel panels (sandwich type) 10 mm thick (for sizes 111, 221, 282, 342, 402) or 20 mm (for sizes 512 and 653), internally insulated with polyurethane material; the panels are provided with a seal and secured to the frame with inox steel screws. The filter used is the class G3 synthetic corrugated type (85% ponderal efficiency EU3).

SILENT

The fans are of the dual-intake centrifugal type with dynamically balanced, direct coupled forward bladed impellers. The motors are 3-speed single-phase mounted on hard rubber supports that absorb all the vibrations. Suitable quiet plenums are offered to reduce noise.

EASY SERVICE

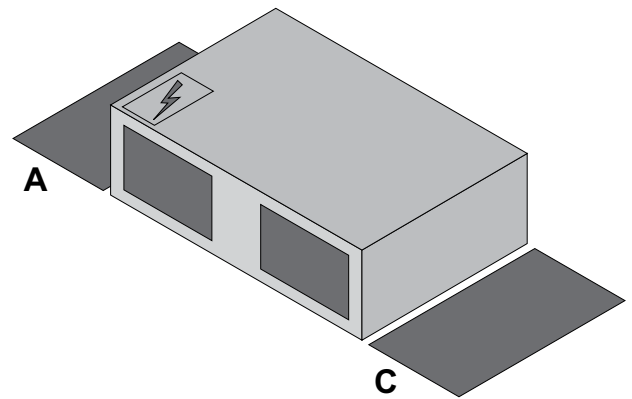
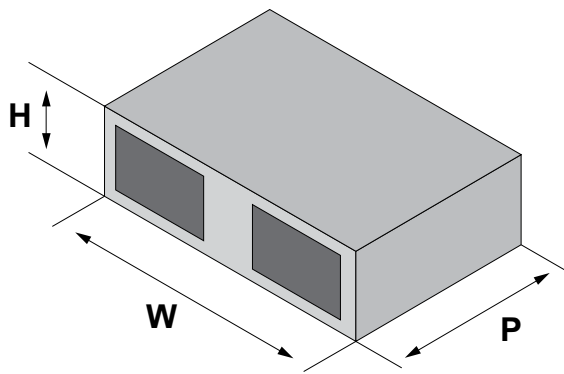
The wide lower door ensures access to all internal components and very easy maintenance. The CU/AL coils are easily accessed for extraordinary cleaning and can be disassembled and replaced, even with the unit mounted.

Technical data

| | Size | | 111 | 221 | 282 | 342 | 402 | 512 | 653 |
|-----|-------------------------------|------|------|------|------|------|------|------|-------|
| | General | | | | | | | | |
| (1) | Max air flow | m3/h | 1040 | 2150 | 2740 | 3360 | 3950 | 5070 | 6450 |
| | Cooling performances | | | | | | | | |
| (2) | Total cooling capacity | kW | 6.4 | 12.9 | 16.8 | 19.5 | 23.1 | 26.1 | 35 |
| | Heating performances | | | | | | | | |
| (3) | Heating capacity | kW | 13.7 | 27.5 | 35.5 | 42 | 49.8 | 57.2 | 71 |
| | Electric heater (accessories) | W | 3000 | 4500 | 6600 | 7500 | 8100 | 9000 | 10500 |

- (1) P.S.E. 150 Pa with 4 R
 (2) Air temperature 27°C - 50%; Water temperature in/out 7/12°C.
 (3) Water 70/60°C Air 20°C

Dimensions and service spaces



| Size | | 111 | 221 | 282 | 342 | 402 | 512 | 653 |
|------------------|----|-----|------|------|------|------|------|-----|
| Dimensions | | | | | | | | |
| Width/W | mm | 710 | 1070 | 1400 | 1680 | 1780 | 2000 | |
| Depth/P | mm | | | 850 | | | 960 | |
| High/H | mm | | | 390 | | | 480 | |
| Operating weight | Kg | 58 | 75 | 106 | 108 | 122 | 135 | 148 |
| Service areas | | | | | | | | |
| A | mm | | | | 600 | | | |
| C | mm | | | | 500 | | | |

Series HWN-1 WALL

Low acoustic impact fan coil equipped with remote control handset or wall-mounted controls.



Identity

Wall mounted

Certifications



Plus



Description

The high HWN1 conditioners have a totally innovating design, where the aesthetic necessities of modern space and silence are the most important constraints.

Plus

ALL IN 1 CONTROL

Wall mounted standard control with advanced functions Master/ Slave included to create little networks until 32 units each one.

BMS COMPATIBLE

Possibility to control until 2048 units with DLBMS1 data logger and Modbus protocol or DLBMS2 with Aertesi protocol, even in combination with all the Aertesi terminal units.

NCU with optional control functions designed to simplify management through external controls

The controls are easily interchanged during installation or in storage

QUALITY POINTS

Ready for quick installation of three-way valve (optional)

Possibility to mount the valves directly in the factory

Refined and elegant design for the placement in even the most aesthetically demanding domestic

High quality plastic that will not have any deformation with high water temperatures to 70 °C

HEALTH

Removable and washable air filter to prevent the spread of dust and allergens in the environment

Adjustable air flow through the motorized flap to ensure proper distribution of air in the room and flows to avoid annoying people on

EASY SERVICE

Easy access to the air filter for replacement or cleaning

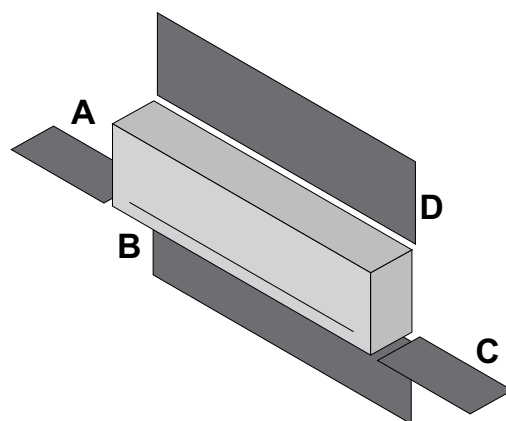
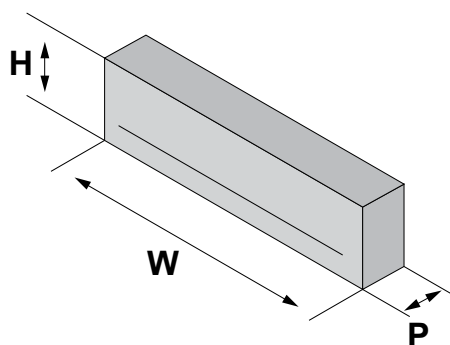
Technical data

| Size | | 30 | 40 |
|----------------------------|-------------------|-----|-----|
| General | | | |
| Max air flow | m ³ /h | 474 | 648 |
| Cooling performances | | | |
| (1) Total cooling capacity | kW | 2.3 | 4 |
| Heating performances | | | |
| (2) Heating capacity | kW | 4.7 | 8.5 |

(1) Air temperature 27°C - 50%; Water temperature in/out 7/12°C.

(2) Air temperature 20°C; Water temperature from boiler 70/60°C.

Dimensions and service spaces



| Size | | 30 | 40 |
|---------------|----|------|------|
| Dimensions | | | |
| Width/W | mm | 1030 | 1160 |
| Depth/P | mm | 196 | 198 |
| High/H | mm | 320 | 330 |
| Weight | Kg | 13.5 | 16.5 |
| Service areas | | | |
| A | mm | 100 | |
| B | mm | 2300 | |
| C | mm | 100 | |
| D | mm | 80 | |

Series CH2O-G/H

Water cassette. Fan coils for installation in suspended ceilings, with wall-mounted controls or infrared remote control.



Identity

Under ceiling installation

Wall-mounted controls or infrared remote control

Versions

2 and 4 pipe versions

Certifications



Plus



Description

The water Cassette are fan coil systems suitable for installation in a false ceiling in the center of the room. Their attractive is suitable for the most sophisticated environments where requirements for space and silence are the greatest constraint.

Plus

ALL IN 1 CONTROL

Wall mounted standard control with advanced functions Master/ Slave included to create little networks until 32 units each one.

BMS COMPATIBLE

Possibility to control until 2048 units with DLBMS1 data logger and Modbus protocol or DLBMS2 with Aertesi protocol, even in combination with all the Aertesi terminal units.

NCUGH optional control functions designed to simplify management through external controls. The controls are easily interchanged during installation or in storage.



WALL-MOUNTED CONTROL WPC-GH

QUALITY POINTS

Ready for quick installation of valves 2 and 3 way (optional)

Possibility to mount the valves directly in the factory

Easy access to terminal block for electrical connections

Integration of outside air drawn through two connections (up to 15% on a single connection).

Ready for fitting in the field or in storage of electrical resistances of integration with Plug & Play connections

4TIN2T

Hearing aid fitting accessory for the 2-pipe 4-pipe systems with no loss of performance.

EASY SERVICE

Ease of removal of the grid air

Electrical panel removed without removing the ceiling

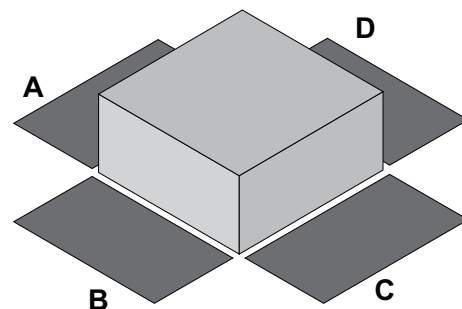
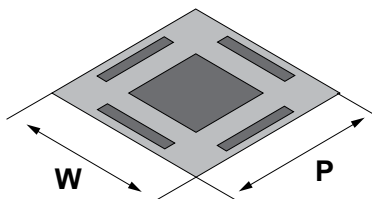
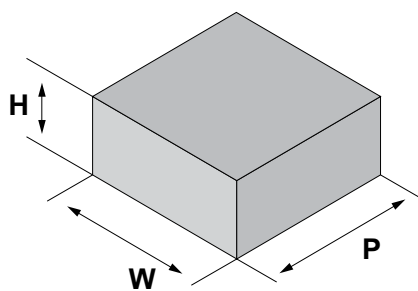
Arrangement of components optimized for access from below

Technical data

| Size | | 20G | 30G | 40G | 50G | 60H | 70H | 100H | 120H | 40GB1 | 60HB1 | 80HB1 | | |
|-----------------------|---------------------------------|---------|-------------|------|------|------|-------|-------|-------|--------|-------|-------|------|------|
| Technical data | | | | | | | | | | | | | | |
| Versions | | | 2 Tubi | | | | | | | 4 Tubi | | | | |
| Fans number | | n° | 1 | | | | | | | | | | | |
| Cooling performances | | | | | | | | | | | | | | |
| (1) | Nominal capacity/h | kW | 2.37 | 3.2 | 4.08 | 4.56 | 5.6 | 6.9 | 10 | 11.7 | 3.6 | 5.75 | 7.92 | |
| (1) | Nominal capacity/m | kW | 1.7 | 2.06 | 3.1 | 3.76 | 5.1 | 5.6 | 7.83 | 10 | 3.02 | 5.21 | 6.82 | |
| (1) | Nominal capacity/l | kW | 1.41 | | 2.7 | | 3.57 | | 6.56 | | 2.42 | 3.18 | 5.34 | |
| | Sensible nominal capacity/h | kW | 1.89 | 2.5 | 3 | 3.17 | 4.37 | 5.06 | 7.94 | 8.86 | 2.94 | 4.46 | 6.96 | |
| | Sensible nominal capacity/m | kW | 1.35 | 1.62 | 2.45 | 2.85 | 3.85 | 4.37 | 6.45 | 7.94 | 2.6 | 4.2 | 6.28 | |
| | Sensible nominal capacity/l | kW | 1.11 | | 2.15 | | 2.96 | | 5.58 | | 2.22 | 2.76 | 5.2 | |
| | Water flow | l/h | 419 | 601 | 753 | 810 | 1047 | 1226 | 1767 | 2073 | 636 | 1007 | 1400 | |
| | Pressure drop | kPa | 6.5 | 12.8 | 30 | 36.8 | 27.7 | 36.9 | 38 | 49 | 14.7 | 40.3 | 26.8 | |
| | Water volume | l | 1.25 | | 1.56 | | 1.78 | | 2.41 | | 1.07 | 1.37 | 1.67 | |
| Heating performances | | | | | | | | | | | | | | |
| (2) | Nominal capacity/h | kW | 4.92 | 6.58 | 7.8 | 8.9 | 11.4 | 12.72 | 18.65 | 20.87 | 4.43 | 5.03 | 9.65 | |
| (2) | Nominal capacity/m | kW | 3.98 | 4.3 | 6.92 | 7.4 | 10.13 | 11.4 | 16.6 | 18.65 | 3.84 | 4.63 | 8.87 | |
| (2) | Nominal capacity/l | kW | 3.25 | | 6.58 | | 7.52 | | 15.2 | | 3.41 | 3.42 | 7.56 | |
| (3) | Nominal capacity/h | kW | 2.8 | 3.65 | 5.29 | 6.15 | 6.72 | 8.28 | 11.48 | 13.7 | - | | | |
| (3) | Nominal capacity/m | kW | 2 | 2.4 | 4.1 | 4.9 | 6.2 | 6.72 | 9.39 | 11.48 | - | | | |
| (3) | Nominal capacity/l | kW | 1.6 | | 3.5 | | 4.28 | | 7.87 | | - | | | |
| | Water flow | l/h | - | | | | | | | | | 380 | 431 | 827 |
| | Pressure drop | kPa | - | | | | | | | | | 3.5 | 7.5 | 13.3 |
| | Water volume | l | - | | | | | | | | | 0.49 | 0.41 | 0.74 |
| Fan motor performance | | | | | | | | | | | | | | |
| | Power | Watt | 38 | 50 | 56 | 85 | 89 | 146 | 267 | 310 | 85 | 146 | 310 | |
| | Running current | Amp | 0.17 | 0.26 | 0.24 | 0.37 | 0.36 | 0.64 | 1.16 | 1.35 | 0.37 | 0.64 | 1.35 | |
| | Starting current | Amp | 0.51 | 0.78 | 0.72 | 1.11 | 1.08 | 1.9 | 3.48 | 4.04 | 1.11 | 1.9 | 4.04 | |
| General | | | | | | | | | | | | | | |
| | Nominal air flow/h | m3/h | 380 | 575 | 722 | 810 | 960 | 1300 | 1950 | 2290 | 810 | 1300 | 2290 | |
| | Nominal air flow/m | m3/h | 240 | 290 | 522 | 617 | 820 | 960 | 1380 | 1950 | 617 | 960 | 1950 | |
| | Nominal air flow/l | m3/h | 200 | | 450 | | 700 | | 1090 | | 450 | 700 | 1090 | |
| | Sound pressure at 1 m/h | dB(A) | 34 | 37 | 44 | 46 | 42 | 47 | 50 | 52 | 46 | 50 | 54 | |
| | Sound pressure at 1 m/m | dB(A) | 30 | 32 | 35 | | 40 | | 42 | 46 | 40 | 42 | 50 | |
| | Sound pressure at 1 m/l | dB(A) | 27 | | 30 | | 36 | | | 39 | 30 | 36 | 39 | |
| | Sound power/h | dB(A) | 42 | 48 | 57 | 60 | 55 | 65 | | 70 | 60 | 65 | 70 | |
| | Sound power/m | dB(A) | 37 | 40 | 46 | 52 | 50 | 57 | 58 | 65 | 52 | 57 | 65 | |
| | Sound power/l | dB(A) | 35 | | 42 | | 46.8 | | 47 | | 42 | 46.8 | 47 | |
| | Electric heater (accessories) | kW | - | 1 | - | 2 | - | 3 | - | 4 | - | | | |
| | Power supply | V/Ph/Hz | 230/1/50 | | | | | | | | | | | |
| | D.i. drain pain connection | mm (in) | 19.05 (3/4) | | | | | | | | | | | |
| | Connecting system | | FEMALE | | | | | | | | | | | |
| | Water inlet connection | mm (in) | 19.05 (3/4) | | | | | | | | | | | |
| | Water outlet connection | mm (in) | 19.05 (3/4) | | | | | | | | | | | |
| | Flange for external air suction | n° | 2 | | | | | | | | | | | |

- (1) Cooling: 27°C db /47% Inlet air temperature, 7°C Inlet water temperature, 12°C Outlet water temperature with nominal water flow
- (2) Heating: 20°C Inlet air temperature, 70°C Inlet water temperature, 60°C Outlet water temperature, same of cooling water flow
- (3) Heating: 20°C Inlet air temperature, 50°C Inlet water temperature, same of cooling water flow

Dimensions and service spaces



| Size | | 20G | 30G | 40G | 50G | 60H | 70H | 100H | 120H | 40GB1 | 60HB1 | 80HB1 |
|--------------------------------|----|-----|-----|-----|-----|-----|-----|------|------|-------|-------|-------|
| Dimensions | | | | | | | | | | | | |
| Width/W | mm | 580 | | | 730 | | 830 | | 580 | 730 | 830 | |
| Depth/P | mm | 580 | | | 730 | | 830 | | 580 | 730 | 830 | |
| High/H | mm | 255 | | | 260 | | 290 | | | | | |
| Gross weight panel + packaging | Kg | 28 | | 30 | | 36 | | 50 | | 30 | 36 | 50 |
| Frontal panel | | | | | | | | | | | | |
| Lenght | mm | 680 | | | 830 | | 980 | | 680 | 830 | 980 | |
| Depth | mm | 680 | | | 830 | | 980 | | 680 | 830 | 980 | |
| High | mm | 28 | | | | | | | | | | |
| Service areas | | | | | | | | | | | | |
| A | mm | 500 | | | | | | | | | | |
| B | mm | 500 | | | | | | | | | | |
| C | mm | 500 | | | | | | | | | | |
| D | mm | 500 | | | | | | | | | | |

Series CH2O-G/H-EC

Water cassette. Fan coils for installation in suspended ceilings, with wall-mounted controls or infrared remote control with EC motor.



Identity

Under ceiling installation
DC electronic motor with permanent magnets
Wall-mounted controls or infrared remote control

Versions

2 pipe versions

Certifications



Plus



Description

The water Cassette are fan coil systems suitable for installation in a false ceiling in the center of the room. Their attractive is suitable for the most sophisticated environments where requirements for space and silence are the greatest constraint.

Plus

ENERGY SAVING

From 35% to 50% compared to traditional motor depending on the type and mode of use

QUALITY POINTS

NCUEC optional control functions designed to simplify management through external controls. The controls are easily interchanged during installation.

Ready for quick installation of valves 2 and 3 way (optional)

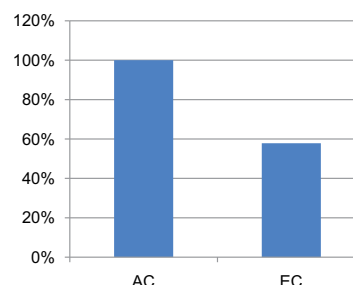
Possibility to mount the valves directly in the factory

Easy access to terminal block for electrical connections

Integration of outside air drawn through two connections (up to 15% on a single connection).

Ready for fitting in the field or in storage of electrical resistances of integration with Plug & Play connections

Medium input power %



EASY SERVICE

Ease of removal of the grid air

Electrical panel removed without removing the ceiling

Arrangement of components optimized for access from below

ALL IN 1 CONTROL

Wall mounted standard control with advanced functions
Master/Slave included to create little networks until 32 units each one.

BMS COMPATIBLE

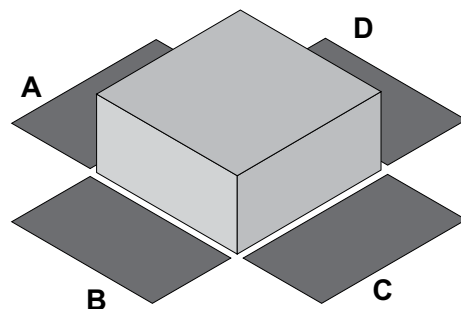
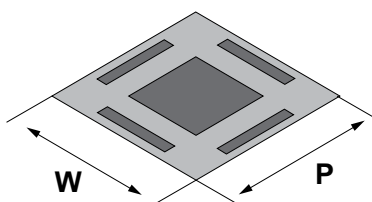
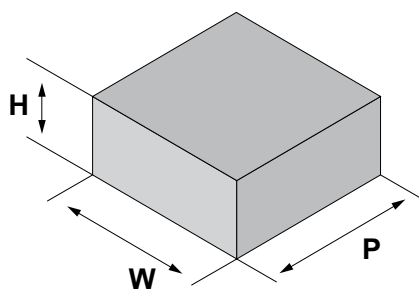
Possibility to control until 160 units with DLBMS-EC data logger and Modbus protocol, even in combination with all the Aertesi terminal units.

Technical data

| Size | | 30GEC | 50GEC | 70HEC | 110HEC |
|---------------------------------|---------|-------------|-------|-------|--------|
| Technical data | | | | | |
| Versions | | 2 Tubes | | | |
| Fans number | n° | 1 | | | |
| Cooling performances | | | | | |
| (1) Nominal capacity/h | kW | 3.2 | 4.56 | 6.93 | 10.6 |
| (1) Nominal capacity/m | kW | 2.06 | 3.65 | 5 | 8.6 |
| (1) Nominal capacity/l | kW | 1.41 | 1.7 | 3.13 | 5.87 |
| Sensible nominal capacity/h | kW | 2.48 | 3.17 | 5.03 | 8.11 |
| Sensible nominal capacity/m | kW | 1.62 | 2.8 | 3.97 | 7.1 |
| Sensible nominal capacity/l | kW | 1.11 | 1.35 | 2.52 | 4.84 |
| Water flow | l/h | 601 | 836 | 1226 | 1865 |
| Pressure drop | kPa | 12.8 | 36 | 31 | 36 |
| Water volume | l | 1.25 | 1.56 | 1.78 | 2.41 |
| Heating performances | | | | | |
| (2) Nominal capacity/h | kW | 6.58 | 8.9 | 12.72 | 18.95 |
| (2) Nominal capacity/m | kW | 4.3 | 6.92 | 10.13 | 16.6 |
| (2) Nominal capacity/l | kW | 3.25 | 3.98 | 6.58 | 11.4 |
| (3) Nominal capacity/h | kW | 3.91 | 5.6 | 8.3 | 12.7 |
| (3) Nominal capacity/m | kW | 2.58 | 4.5 | 6 | 10.3 |
| (3) Nominal capacity/l | kW | 1.8 | 2.1 | 3.91 | 7 |
| Fan motor performance | | | | | |
| Power | Watt | 30 | 40 | 72 | 200 |
| Running current | Amp | 0.26 | 0.35 | 0.63 | 1.57 |
| Starting current | Amp | 59.8 | 80 | 144 | 362 |
| General | | | | | |
| Nominal air flow/h | m3/h | 575 | 810 | 1300 | 2100 |
| Nominal air flow/m | m3/h | 290 | 520 | 820 | 1380 |
| Nominal air flow/l | m3/h | 200 | | 360 | 820 |
| Sound pressure at 1 m/h | dB(A) | 37 | 46 | 50 | 54 |
| Sound pressure at 1 m/m | dB(A) | 32 | 35 | 40 | 45 |
| Sound pressure at 1 m/l | dB(A) | 24 | | 28 | 30 |
| Sound power/h | dB(A) | 48 | 60 | 65 | 66 |
| Sound power/m | dB(A) | 39 | 45 | 53 | 58 |
| Sound power/l | dB(A) | 35 | | 39 | 42 |
| Electric heater (accessories) | kW | 1 | 2 | 3 | 4 |
| Power supply | V/Ph/Hz | 230/1/50 | | | |
| D.i. drain pain connection | mm (in) | 19.05 (3/4) | | | |
| Connecting system | | FEMALE | | | |
| Water inlet connection | mm (in) | 19.05 (3/4) | | | |
| Water outlet connection | mm (in) | 19.05 (3/4) | | | |
| Flanae for external air suction | n° | 2 | | | |

- (1) Cooling: 27°C db /47% Inlet air temperature, 7°C Inlet water temperature, 12°C Outlet water temperature with nominal water flow
- (2) Heating: 20°C Inlet air temperature, 70°C Inlet water temperature, 60°C Outlet water temperature, same of cooling water flow
- (3) Heating: 20°C Inlet air temperature, 50°C Inlet water temperature, same of cooling water flow

Dimensions and service spaces



| Size | | 30GEC | | 50GEC | | 70HEC | | 110HEC | |
|--------------------------------|----|-------|--|-------|--|-------|--|--------|--|
| Dimensions | | | | | | | | | |
| Width/W | mm | 580 | | | | 730 | | 830 | |
| Depth/P | mm | 580 | | | | 730 | | 830 | |
| High/H | mm | 255 | | 290 | | 260 | | 290 | |
| Gross weight panel + packaging | Kg | 28 | | 30 | | 36 | | 50 | |
| Frontal panel | | | | | | | | | |
| Lenght | mm | 680 | | | | 830 | | 980 | |
| Depth | mm | 680 | | | | 830 | | 980 | |
| High | mm | 28 | | | | | | | |
| Service areas | | | | | | | | | |
| A | mm | 500 | | | | | | | |
| B | mm | 500 | | | | | | | |
| C | mm | 500 | | | | | | | |
| D | mm | 500 | | | | | | | |

MARINE series

Fancoil units for marine application



Identity

Marine application
Low pressure

Certification



Plus



Description

The "Marine Small" fancoil is studied to obtain the maximum energy comfort with the maximum performance in sound level even in bad conditions like the marine environment. The various versions availables give the possibility to mount its in different kinds of ships of little and great coaster.

Plus

QUALITY POINTS

Cabinet available in different kinds of materials in consideration of the environmental air aggressiveness of the installation:

- Aluzink (STD)
- Painting
- Inox

heat exchanger coils availables on demand copper to copper for aggressive atmosphere

Possibility to mount the valves directly in the factory

Version

OI Horizontal concealed with frontal air outlet and behind air inlet

OIF Horizontal concealed with frontal air outlet and bottom air inlet

OC Horizontal with cabinet – Rear suction

OCF Horizontal and vertical with cabinet – Frontal suction

VCF Vertical with cabinet and frontal air inlet

Std version Mobile in Aluzink material and CU/AL coil

Technical data

| Size | | 3 | 4 | 6 | 9 | 12 | |
|------|-------------------------------|------|------|------|------|------|-------|
| (1) | Cooling performances | | | | | | |
| | Max air flow | m3/h | 257 | 314 | 532 | 741 | 1311 |
| (1) | Nominal capacity | kW | 1,45 | 1,85 | 3,13 | 4,43 | 7,44 |
| (1) | Sensible capacity | kW | 3,08 | 3,84 | 6,51 | 9,01 | 15,43 |
| | Grille | n° | 3 | 4 | 6 | 8 | 8 |
| | Plastic door | n° | 2 | 2 | 2 | 2 | 2 |
| | Electric heater (accessories) | kW | 0,6 | 1 | 1,25 | 2 | 2 |

(1) Capacity is stated in accordance to ISO 7547

Series RECOVERY

Cross air flow exchanger recovery unit



Identity

Efficiency 50%
Double panels
Static with cross air flow

Versions

RC_HD: Horizontal double skin
RC_VD: Vertical double skin

Certifications



Plus



Description

The series Recovery is ducted-type and the basic configurations are horizontal and vertical development. Through cross flow air-to-air aluminum heat exchanger, the series "Recovery" guarantees to recover over 50% of the energy that would normally be lost with the exhaust air expulsion. The "Recovery" units can be used to integrate traditional systems made up of fan coils, conditioning units, or radiators. They can operate both in the summer and winter season.

Plus

QUALITY POINTS

Completely removable aluzink plate side panels. Double-shell panel thermal and acoustic insulation by means of polyethylene/polyester panels with a thickness of 10 mm for the sizes RC290-550-1000 and 20 mm for the other sizes.

FLEX

For each size available, four possible positions for the recuperators are available. Depending on the net configuration and available space.

EASY SERVICE

UE3 efficiency air filters, which may be easily removed from the sides allowing their periodic cleaning.

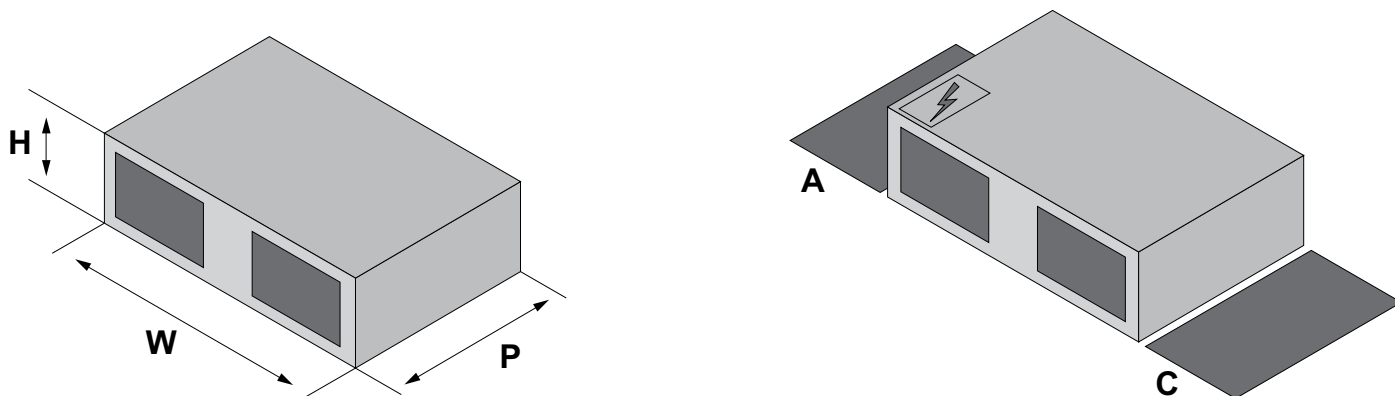
Dati Tecnici

| Grandezze | | 290 | 550 | 1000 | 1400 | 1900 | 2500 | 3200 | 4000 | |
|-----------|-------------------------|------|------|------|------|------|------|------|------|------|
| Generali | | | | | | | | | | |
| (1) | Portata aria max | m³/h | 290 | 550 | 1000 | 1400 | 1900 | 2500 | 3200 | 4000 |
| (1) | Pressione statica utile | Pa | 40 | 65 | 90 | 140 | 120 | 110 | 170 | 170 |
| (2) | Rendimento | % | 52,3 | 54,6 | 53,4 | 52,1 | 51,8 | 57,6 | 56 | 55,6 |

- (1) Max speed of 3 for models from 1000 to 3200 (single phase motor), for size 290, 550 and 4000 speed max of 2 (single phase motor for size 290 and 550, 3 phase motor for size 4000)
- (2) Temperature: exhaust air 20 ° C and air renewal -5 ° C, nominal air flow

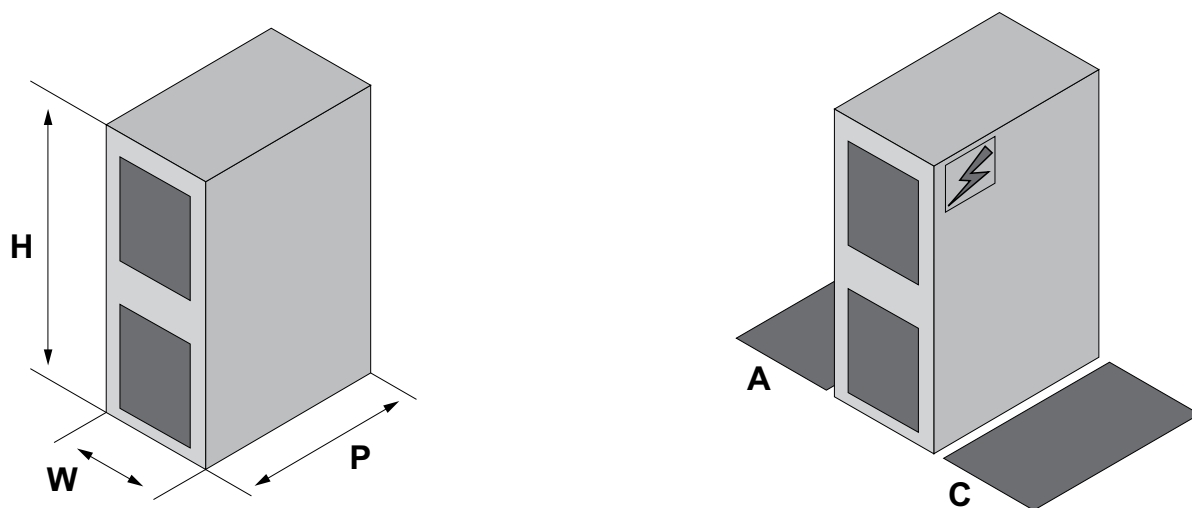
Dimensions and service spaces

RC HD



| Size | | 290 | 550 | 1000 | 1400 | 1900 | 2500 | 3200 | 4000 |
|---------------|----|-----|-----|------|------|------|------|------|------|
| Dimensions | | | | | | | | | |
| Width/W | mm | 990 | 990 | 1150 | 1300 | 1450 | 1700 | 1700 | 1700 |
| Depth/P | mm | 750 | 750 | 860 | 900 | 900 | 1230 | 1230 | 1230 |
| High/H | mm | 270 | 270 | 385 | 410 | 470 | 490 | 530 | 630 |
| Weight | Kg | 39 | 41 | 68 | 91 | 99 | 140 | 155 | 179 |
| Service areas | | | | | | | | | |
| A | mm | 600 | | | | | | | |
| C | mm | 500 | | | | | | | |

RC VD



| Size | | 290 | 550 | 1000 | 1400 | 1900 | 2500 | 3200 | 4000 |
|---------------|----|-----|-----|------|------|------|------|------|------|
| Dimensions | | | | | | | | | |
| Width/W | mm | 270 | 270 | 385 | 410 | 470 | 490 | 530 | 630 |
| Depth/P | mm | 750 | 750 | 860 | 900 | 900 | 1230 | 1230 | 1230 |
| High/H | mm | 990 | 990 | 1150 | 1300 | 1450 | 1700 | 1700 | 1700 |
| Weight | Kg | 39 | 41 | 68 | 91 | 99 | 140 | 155 | 179 |
| Service areas | | | | | | | | | |
| A | mm | 600 | | | | | | | |
| C | mm | 500 | | | | | | | |

Series RHRAER

High efficiency heat recovery



Identity

Efficiency 70%
Double panels
Countercurrent cross flows double-exchange surface
Horizontal ducted installation

Certifications



Plus



Description

The heat recovery units in the series RHRAER are able to realize cost savings higher, recovering up to 80% of the heat content of exhaust air, which would otherwise be wasted during the expulsion.

This is possible by using a special air-to-air high surface exchanger. These units may be integrated with traditional heating and cooling systems (such as fan-coils, water heaters, etc.) and can operate both in summer and winter seasons; besides, they are particularly suitable for false ceiling installation and may be appropriately ducted allowing air supply and air suction directly in the room in many different orientations.

Plus

QUALITY POINTS

Fully removable panels (sandwich type). Acoustic and thermal panel insulation 20 mm thickness. The panels are fixed to the frame by steel screws.

High efficiency crossflow heat recovery, aluminium heat exchanger plates.

HEALTH

Air filters are synthetic cell cleanable type G4 class efficiency, removable from lower or side panels; as an option, F6-F7-F8 soft bag filter after the G4 prefilter.

FLEX

For each size there are four possible orientations of the recovery depends on the configuration of the network and the available space.

Technical data

| Size | | 14 | 19 | 30 | 50 |
|---|---------|----------|------|------|----------|
| Aeraulic data | | | | | |
| Nominal air flow/h | m3/h | 1000 | 1600 | 2900 | 3900 |
| Nominal air flow/l | m3/h | 900 | 1400 | 2500 | - |
| Nominal air flow/m | m3/h | 800 | 1000 | 1850 | 3000 |
| External static pressure - max | Pa | 170 | 100 | 110 | |
| External static pressure - med | Pa | 176 | 94 | 73 | - |
| External static pressure - min | Pa | 139 | 95 | 68 | 190 |
| Sound level | | | | | |
| (1) Sound pressure - max | dB(A) | 54.8 | 57.4 | 58.7 | 60.4 |
| Sound pressure - med | dB(A) | 56.3 | 55.4 | 54.5 | - |
| Sound pressure - min | dB(A) | 47.7 | 48.4 | 51.2 | 58.4 |
| Fan | | | | | |
| Fans | n° | 2 | | | |
| Motor power | W | 350 | | 550 | 1500 |
| Maximum running current | A | 5.8 | 6 | 11.4 | 11.2 |
| Fan speeds | n° | 3 | | | 2 |
| Pole | n° | 4 | | | |
| Protection degree | IP | 20 | | | |
| Temperature class | | F | | | |
| General | | | | | |
| Power supply | V/Ph/Hz | 230/1/50 | | | 400/3/50 |
| Performance | | | | | |
| (2) Recovery efficiency - max | % | 74.2 | 72 | 76.2 | 77.2 |
| (2) Recovery efficiency - med | % | 75.4 | 73.6 | 77.9 | - |
| (2) Recovery efficiency - min | % | 76.8 | 77.5 | 81.2 | 80.1 |
| (2) Saved power - max | kW | 6.8 | 10.5 | 20.2 | 27.5 |
| (2) Saved power - med | kW | 6.2 | 9.4 | 17.8 | - |
| (2) Saved power - min | kW | 5.6 | 7.1 | 13.7 | 21.9 |
| (2) Supply air temperature - max | °C | 13.6 | 13 | 14.1 | 14.3 |
| (2) Supply air temperature - med | °C | 13.8 | 13.4 | 14.5 | - |
| (2) Supply air temperature - min | °C | 14.2 | 14.4 | 15.3 | 15 |
| Post-heating water coil | | | | | |
| (3) Heating capacity (max speed) | kW | 11.6 | 16.5 | 29.8 | 36.1 |
| Supply air temperature | °C | 47.3 | 43.4 | 43.3 | 40.3 |
| Air side pressure drop | Pa | 32 | 60 | 70 | 64 |
| Coil rows | n° | 3 | | | |
| Water side pressure drop | kPa | 17 | 12 | 20 | 14 |
| Water flow | m3/h | 1.02 | 1.45 | 2.62 | 3.18 |
| Post-heating electric heater | | | | | |
| Heating capacity | kW | 6 | 9 | 12 | 18 |
| Air side Δt (at max fan speed) | °C | 17.7 | 16.6 | 12.2 | 14 |
| Power supply | V/Ph/Hz | 400/3/50 | | | |
| Air side pressure drop | Pa | 4 | 8 | 9 | |
| Water cooling coil external section saf | | | | | |
| (4) Total cooling capacity (max speed) | kW | 7.8 | 11.7 | 22.6 | 26.7 |
| Supply air temperature | | 16.4 | 17.1 | 16.5 | 17.6 |
| Air side pressure drop | Pa | 45 | 72 | 79 | 50 |
| Coil rows | n° | 3 | | | |
| Water side pressure drop | kPa | 9 | 12 | 33 | 25 |
| High efficiency filter (at max fan speed) | | | | | |
| F6 compact filter - fc6 pressure drop | Pa | 23 | 33 | 35 | 34 |
| F6 bag filter - ft6 pressure drop | Pa | 97 | 133 | 155 | 134 |
| F7 bag filter - ft7 pressure drop | Pa | 114 | 155 | 179 | 156 |
| F8 bag filter - ft8 pressure drop | Pa | 142 | 187 | 218 | 190 |
| Round adapter for circular duct bcc | | | | | |
| Diameter | mm | 315 | | 400 | 600 |

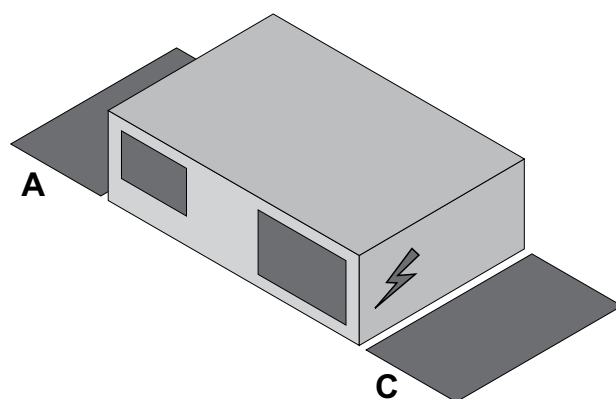
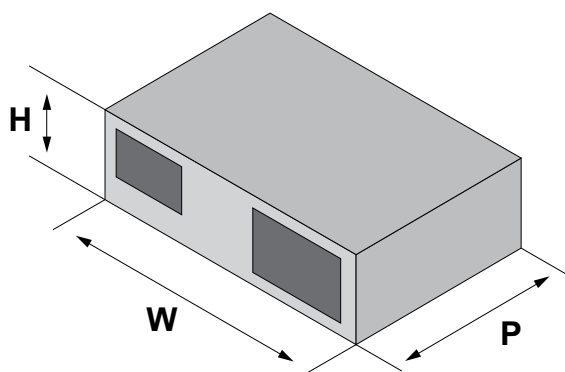
(1) Sound pressure values measured at 1 meter.

(2) At the following conditions: room air temperature 20°C db 50% RH; fresh air temperature -5°C.

(3) Inlet air temperature 13°C; inlet-outlet water temperature 70-60°C

(4) Intake air temperature 29°C DB 60% RH; inlet-outlet water temperature 7-12°C

Dimensions and service spaces



| Size | | 14 | 19 | 30 | 50 |
|------------------|----|------|------|------|------|
| Dimensions | | | | | |
| Width/W | mm | 900 | | 1230 | 1350 |
| Depth/P | mm | 2000 | 2150 | 2580 | |
| High/H | mm | 410 | 470 | 530 | 705 |
| Operating weight | Kg | 131 | 147 | 212 | 213 |
| Service areas | | | | | |
| A | mm | 600 | | | |
| C | mm | 500 | | | |

Series RFMAER

Heat recovery unit with built-in heat pump system.



Identity

Heat pump
R407c
Double panels
Static with cross air flow
Horizontal ducted installation

Versions

T : 100% outside air version
P: 50% outside air and 50% recirculated air

Certifications



Plus



Description

The new stand-alone RFMAER units are dedicated to the refilling of room air and its thermal treatment. They have been designed and developed in order to reconcile different requirements typical of applications both residential and commercial.

Plus

ENERGY SAVING

Heat pump refrigeration circuit totally self-managed by a microprocessor control that allows the neutralization of the thermal loads associated to the fresh air, in particular, the presence of heat recovery and enhances the thermal performance of the refrigerating circuit, giving very high efficiencies at 'units and allowing, therefore, very interesting economic conveniences. The neutralisation of room heat loads, specially for P version, where the surplus power left over the renewal air heat loads is particularly high.

QUALITY POINTS

Fully removable panels (sandwich type). Acoustic and thermal panel insulation 20 mm thickness. The panels are fixed to the frame by steel screws.
High efficiency crossflow heat recovery, stainless steel drain tray, heat insulated.
Technical area outside the air flow to allow service operations with ease



CONTROL PANEL

FLEX

For each size there are four possible orientations of the recovery depends on the configuration of the network and the available space.

HEALTH

G4 efficiency class synthetic cell filters

CONTROL

Depending on the value of set point, ambient and outdoor temperatures, the electronic control automatically decides the mode of operation of the unit. The possible modes are as follows: HEATING (electric heater when the feature is present) and FAN and COOLING

Technical data

| Size | | 14 | 19 | 25 | 30 | 40 |
|--|---------|----------|----------|---------|---------|----------|
| Performance | | | | | | |
| Air flow | m³/h | 900 | 1400 | 2000 | 2600 | 3300 |
| Outside airflow rate - T version (100%) | m³/h | 900 | 1400 | 2000 | 2600 | 3300 |
| Outside airflow rate - P version (50%) | m³/h | 450 | 700 | 1000 | 1300 | 1650 |
| External static pressure - outlet | Pa | 210 | 190 | 175 | 170 | 180 |
| External static pressure - inlet | Pa | 170 | 140 | 125 | 110 | |
| Sound pressure | dB(A) | 55 | 53 | 56 | 59 | 60 |
| Fans | | | | | | |
| Motor power | W | 2 x 420 | | 2 x 550 | 2 x 600 | 2 x 750 |
| Maximum running current | A | 7.2 | | 9.2 | 13.2 | 6.2 |
| Pole | n° | 4 | | | | |
| Protection degree | IP | 55 | | | | |
| Temperature class | | F | | | | |
| Power supply | V/Ph/Hz | 230/1/50 | | | | 400/3/50 |
| Compressors | | | | | | |
| Nominal power input | W | 1900 | 2500 | 3500 | 4400 | 5100 |
| Nominal running current | A | 12 | 5.4 | 7 | 8 | 10 |
| Power supply | V/Ph/Hz | 230/1/50 | 400/3/50 | | | |
| Saved power | | | | | | |
| Heating recovery - T version | W | 4040 | 6100 | 9600 | 12110 | 15600 |
| Heating recovery - P version | W | 1990 | 2920 | 4460 | 5640 | 7180 |
| Cooling recovery - T version | W | 900 | 1360 | 2130 | 2700 | 3400 |
| Cooling recovery - P version | W | 420 | 570 | 1000 | 1300 | 1590 |
| Installed cooling power | | | | | | |
| Evaporator power | W | 5260 | 8100 | 11200 | 14800 | 19220 |
| Total power - T version | W | 6160 | 9460 | 13330 | 17500 | 22620 |
| Total power - P version | W | 5680 | 8670 | 12200 | 16100 | 20810 |
| Surplus power - T version | W | 1710 | 2620 | 3670 | 4860 | 6280 |
| Surplus power - P version | W | 2530 | 3900 | 5450 | 7160 | 9310 |
| Supply air temperature - T/P version | | 1 | | | | |
| Installed heating power | | | | | | |
| Condenser power - T version | W | 5030 | 7720 | 11100 | 14400 | 18700 |
| Condenser power - P version | W | 4350 | 6590 | 9500 | 12200 | 15960 |
| Total power - T version | W | 9070 | 13820 | 20700 | 26510 | 34300 |
| Total power - P version | W | 6340 | 9510 | 13960 | 17840 | 23140 |
| Surplus power - T version | W | 1420 | 1920 | 3670 | 4410 | 6290 |
| Surplus power - P version | W | 2570 | 3570 | 5450 | 6810 | 9090 |
| Min supply air temperature - T/P version | °C | 24,6 | 24,0 | 25,4 | 25,0 | 256 |
| Max supply air temperature - T/P version | °C | 28,4 | 27,5 | 28,0 | 27,7 | 28,1 |
| Additional electric heater res | | | | | | |
| Heating capacity | kW | 2.5 | | 5 | | 7 |
| Air Δt | °C | 8.2 | 5.3 | 7.4 | 5.7 | 6.2 |
| Running current | A | 3.6 | | 7.2 | | 10.1 |
| Power supply | V/Ph/Hz | 400/3/50 | | | | |
| Air side pressure drop | Pa | 5 | 9 | 6 | 9 | 7 |
| High efficiency filter (at nominal airflow rate) | | | | | | |
| Fk6 pressure drop | Pa | 40 | 65 | 55 | 70 | 75 |

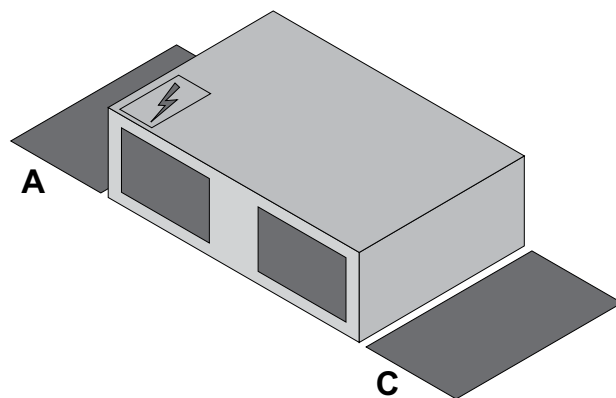
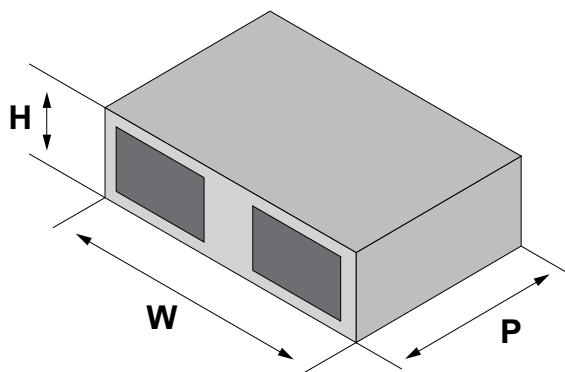
Sound pressure values measured at 1 meter.

- (1) Winter air conditions: outside -5°C, room 20°C; summer air conditions: outside 32°C db 50% RH, room 26°C db 50% RH.
 (2) Freon temperature: evaporating 5°C , condensating 45°C.
 (3)

Note: For proper operation of the units must be respected the following parameters:

- The nominal air flow required can increase by up to 10%
- In the winter mode Minimum Operating temperature operation can not be less than -5 ° C. For lower temperatures is required to use additional electric heaters. The new limit should be calculated case by case basis.

Dimensions and service spaces



| Size | | 14 | | 19 | | 25 | | 30 | | 40 | |
|------------------|----|------|--|-----|--|------|--|-----|--|-----|--|
| Dimensions | | | | | | | | | | | |
| Width/W | mm | 1230 | | | | 1560 | | | | | |
| Depth/P | mm | 1450 | | | | 1700 | | | | | |
| High/H | mm | 470 | | | | 530 | | | | 630 | |
| Operating weight | Kg | 212 | | 225 | | 247 | | 258 | | 279 | |
| Service areas | | | | | | | | | | | |
| A | mm | 600 | | | | | | | | | |
| C | mm | 500 | | | | | | | | | |

Series VESTA Vertical

Isothermal dehumidifier with pre- and post-treatment water coil 260 m3/h



Identity

Vertical installation
Suitable for radiant air conditioning
Centrifugal fan
R 134a

Versions

VESTA 80 V Vertical dehumidifier for exposed recessed installation
VESTA 80 VD Vertical dehumidifier for ducted installation
NEW VESTA 80 VI Isotherm with possibility of integration for recessed installation in sight

Certifications



Plus



Descrizione

VESTA dehumidifiers are utilised for summer dehumidification of rooms with radiant panel cooling systems.

VESTA is designed and built exclusively for indoor use and delivers air at neutral temperature with respect to the room air.

This characteristic is assured by the presence in the unit of a post-cooling coil through which water from the radiant panels system is circulated.

VESTA VI allows the cooling integration and dehumidification by means a supplementary plate exchanger; the setting are selectable by the end-user and automatically managed by an electronic device.

VESTA is controlled by the regulation and control system, also when several units are installed in parallel.

Plus

QUALITY POINTS

Outer casing available in wood or metal version

Panel front cover made of wood or metal to fit into any living environment

Pre and post-treatment water coil

Centrifugal fan with 6-speed built-in motor to adjust the best operation to different working conditions.

EASY SERVICE

Air filter easy to remove with the front panel

HIGH PERFORMANCE

Double cooling capacity available in comparison to the medium offer of similar units on the market

Air Temperature
°C



Total cooling capacity in Kw
80VI Cooling Integration model

CONTROL PANEL

"Evolution" electronic hygrostat with variable hygrometric curve to optimize operation of the dehumidifier for Comfort purpose
EBE accessory microprocessor "advanced" for the intelligent management and efficient unit in order to ensure maximum energy saving, low noise and long life of the compressor.

COOLING INTEGRATION

The VI version is studied mostly for radiant installations in concomitance of very "fast" thermo-higrometric changes in the environment or in the "start up" of the cooling system. But its performances can allow itself to be used also like basic terminal unit of comfortable cooling and dehumidification in the room. Comparing them to the competitor's ones presents in the market that are working only in cooling integration and simultaneously dehumidification, Vesta VI can work also in lonely dehumidification, and it's perfectly combined to our climatic curve hygrostat control so to guarantee the comfort in all the conditions and not to make cooling when this is not requested.

Technical data

| Size | | Vesta 80V | Vesta 80VD | Vesta 80VI |
|---------------------|---|-----------|------------|------------|
| Termotechnical data | | | | |
| (1) | Approximate treatable volume | m³ | 200/250 | |
| | Human occupancy | n° | 7 | |
| | Dehumidifying performances | | | |
| (2) | Nominal condensing capacity | l/h | 0.8 | |
| | Nominal total water flow rate to pre and post-treatment coils (coils connected in parallel) | l/h | 175 | 210 |
| | Nominal total cooling capacity absorbed by the air pre and post-treatment coils | W | 830 | |
| (4) | Δp pre and post-treatment coils | kPa | 7 | |
| | Max integration cooling capacity | kW | | 2,4 |
| | General | | | |
| (2) | Power supply | (V/ph/Hz) | 230/1/50 | |
| | Nominal running current | A | 1.8 | |
| | Maximum running current | A | 2.6 | |
| (2) | Nominal power input | W | 360 | |
| | Maximum power input | W | 400 | |
| | Electrical box protection rating | | IP44 | |
| | R134a refrigerant charge | g | 285 | 300 |
| | Pre and post-treatment coils hydraulic connections | n° | 2 | |
| | Pre and post-treatment coils hydraulic connections | - | 3/8 | |
| | Pre and post-treatment coils hydraulic connections | Type | GAS FEMALE | |
| | Total sound pressure in open field at 1m distance | dB(A) | 36.6 | |
| Fan | | | | |
| | Centrifugal fan setting speed | n° | 6 | |
| | Internal width of fan outlet port | mm | 260 | |
| | Internal hight of fan outlet port | mm | 100 | |
| | Nominal air flow | m3/h | 260 | |
| Working field | | | | |
| (3) | Pre-/post-treatment coils water temperature | °C | 12 ÷ 25 | 15 ÷ 25 |
| (3) | Intake air db temperature | °C | 15 ÷ 35 | 20 ÷ 37 |
| (3) | Relative humidity | % | 45 ÷ 85 | |

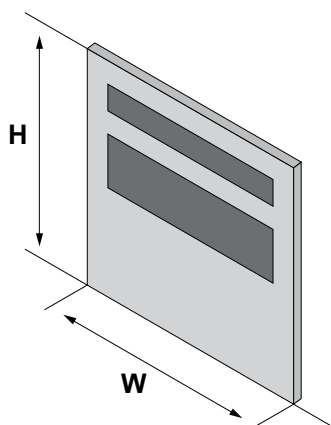
(1) Value that depends on the level of metabolic activity and the average radiant temperature in the room.

(2) Nominal airflow; intake air 25°C ÷ 65%; nominal water flow rate; pre- and post treatment coils water inlet temperature: 15 °C. (20°C for VI models)

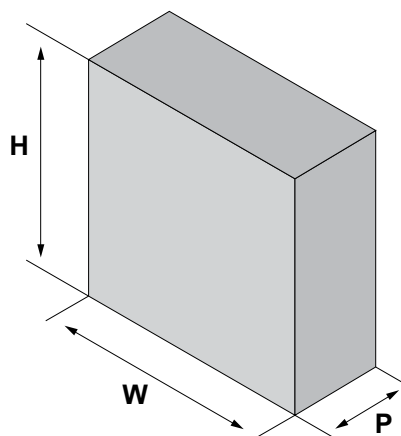
(3) In the case of very warm rooms and surroundings with high relative humidity (swimming pools, spa baths, etc.) consult us and provide details of the place of installation.

(4) Water temperature 15 °C, ambient air temperature 35°C

Dimensions and service spaces



Vesta 80V



Vesta 80VD

Vesta 80VI

| Size | | Vesta 80V | Vesta 80VD | Vesta 80VI |
|---------------------------|----|-----------|------------|------------|
| Dimensions | | | | |
| Weight | Kg | | 36 | |
| Width/W | mm | | 729 | |
| Depth/P | mm | | 212 | |
| High/H | mm | | 705 | |
| Outer casing width/W | mm | | 740 | |
| Outer casing depth/P | mm | | 230 | |
| Outer casing High/H | mm | | 750 | |
| Wood front panel width/W | mm | | 800 | |
| Wood front panel High/H | mm | | 800 | |
| Metal front panel width/W | mm | | 760 | |
| Metal front panel High/H | mm | | 770 | |

Series VESTA Horizontal

Isothermal dehumidifier with pre- and post-treatment water coil 260 m³/h



Identity

Horizontal ducted installation
Suitable for radiant air conditioning
Centrifugal fan
R134a

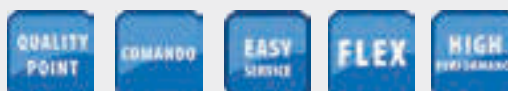
Versions

VESTA 80 H Horizontal dehumidifier for ducted installation
VESTA 80 HM Horizontal Dehumidifier with separate supply of pre-/post-treatment coils
VESTA 80 H - HP Horizontal dehumidifier for medium static pressure (50 Pa) ducted installation
VESTA 80 HI Isothermal with the possibility of integration for ducted installation.
VESTA 80 HI-HP Isothermal with the possibility of integration for ducted installation with medium static pressure (50 Pa).

Certifications



Plus



Description

VESTA dehumidifiers are utilised for summer dehumidification of rooms with radiant panel cooling systems.

VESTA is designed and built exclusively for indoor use and delivers air at neutral temperature with respect to the room air.

This characteristic is assured by the presence in the unit of a post-cooling coil through which water from the radiant panels system is circulated.

VESTA is controlled by the regulation and control system, also when several units are installed in parallel.

Optimal installation for all types of system is guaranteed by a range of optional accessories.

Plus

QUALITY POINTS

Centrifugal fan with 6-speed built-in motor to adjust the best operation to different working conditions.

HM version with separate pre-/post-treatment coils supply

EASY SERVICE

Easy removable filter with the frontal panel

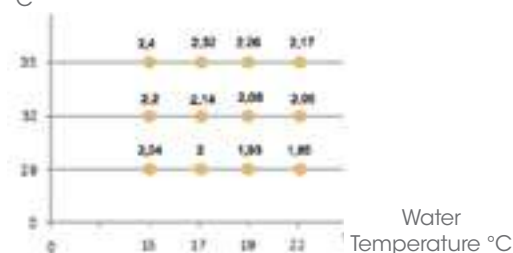
FLEX

The HP versions with 50 pascal fan motor can guarantee higher flexibility to the installation needs; it allow to the unit to be installed ducted in technical under-ceilings far from bedroom rooms.

HIGH PERFORMANCE

Double cooling capacity available in comparison to the medium offer of similar units on the market

Air Temperature
°C



Total cooling capacity in Kw
80VI Cooling Integration model

CONTROL PANEL

"Evolution" electronic hygrostat with variable hygrometric curve to optimize operation of the dehumidifier in accordance to the comfort. Versions H-HM: EBE device with microprocessor represent an "advanced" solution for the intelligent and efficient management of the unit in order to ensure the maximum energy saving, the noiseless and the long term life of the compressor.

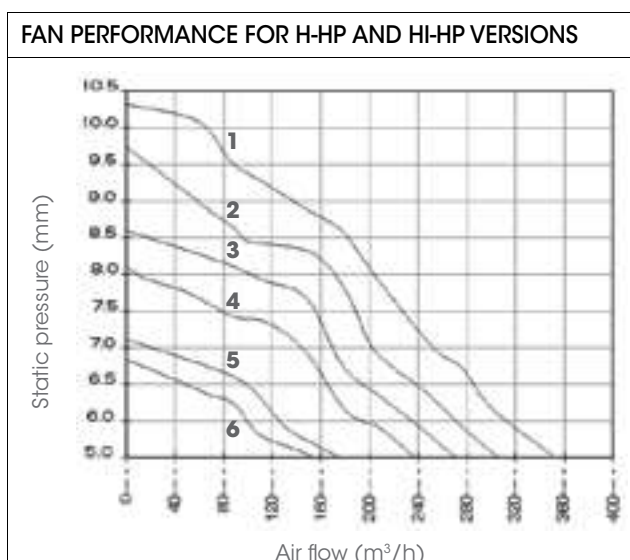
COOLING INTEGRATION

The version of HI has been studied mainly for radiant installations with changes of temperature-humidity conditions very "sudden" or "start-up phases of the system." Unlike some units in the market that only work in integration and dehumidification, HI Vesta can also work in single isothermal dehumidification, and perfectly matched to our humidistat to the temperature curve to ensure comfort in all conditions and when not to integrate there is a need.

Technical data

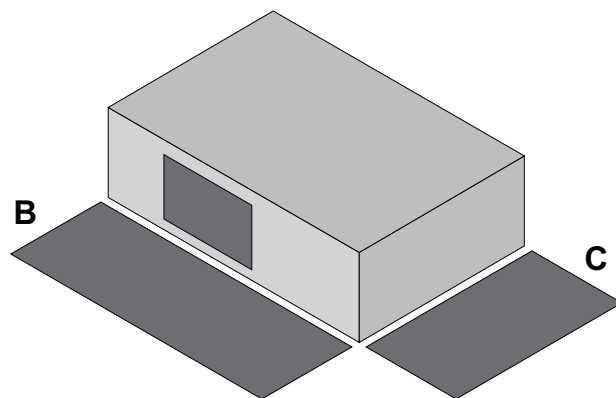
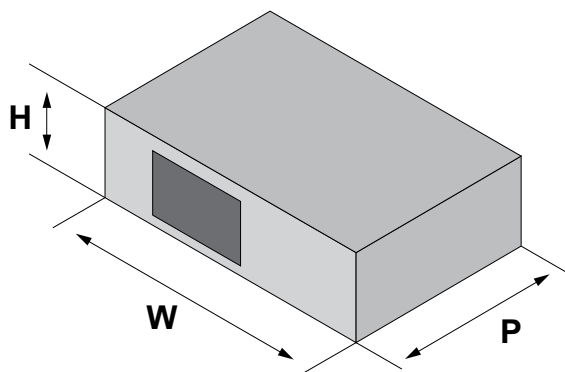
| Size | | Vesta 80H | | Vesta 80HM | Vesta 80H-HP | VESTA 80 HI | VESTA 80 HI-HP |
|----------------------------|---|-----------|------------|------------|--------------|-------------|----------------|
| Termotechnical data | | | | | | | |
| | Approximate treatable volume | m³ | 200/250 | | | | |
| (1) | Human occupancy | n° | 7 | | | | |
| Dehumidifying performances | | | | | | | |
| (2) | Nominal condensing capacity | l/h | 0.8 | | | | |
| | Nominal total water flow rate to pre and post-treatment coils (coils connected in parallel) | l/h | 175 | | | 210 | |
| | Nominal total cooling capacity absorbed by the air pre and post-treatment coils | W | 830 | | | | |
| | Δp pre and post-treatment coils | kPa | 7 | | | | |
| (5) | Max integration cooling capacity | kW | 2,4 | | | | |
| General | | | | | | | |
| | Power supply | (V/ph/Hz) | 230/1/50 | | | | |
| (2) | Nominal running current | A | 1.9 | | | | |
| | Maximum running current | A | 2.6 | | | | |
| (2) | Nominal power input | W | 370 | | | | |
| | Maximum power input | W | 400 | | | | |
| | Electrical box protection rating | | IP44 | | | | |
| | R134a refrigerant charge | g | 285 | | | 300 | |
| | Pre and post-treatment coils hydraulic connections | n° | 2 | 4 | 2 | 2 | 2 |
| | Pre and post-treatment coils hydraulic connections | " | 1/2 | | | | |
| | Pre and post-treatment coils hydraulic connections | type | GAS FEMALE | | | | |
| | Total sound pressure in open field at 1m distance | dB(A) | 39.5 | | | | |
| Fan | | | | | | | |
| | Centrifugal fan setting speed | n° | 6 | | | | |
| | Internal width of fan outlet port | mm | 260 | | | | |
| | Internal hight of fan outlet port | mm | 100 | | | | |
| | Nominal air flow | m3/h | 260 | | | | |
| | High static pressure | Pa | 0 | | 50 | | |
| Working field | | | | | | | |
| (3) | Pre-/post-treatment coils water temperature | °C | 12 ÷ 25 | | | 15 ÷ 25 | |
| (3) | Intake air db temperature | °C | 15 ÷ 35 | | | 20 ÷ 37 | |
| (3) | Relative humidity | % | 45 ÷ 85 | | | 45 ÷ 85 | |

- (1) Value that depends on the level of metabolic activity and the average radiant temperature in the room.
- (2) Nominal airflow; intake air 25°C ÷ 65%; nominal water flow rate; pre- and post treatment coils water inlet temperature: 15 °C.
- (3) In the case of very warm rooms and surroundings with high relative humidity (swimming pools, spa baths, etc.) consult us and provide details of the place of installation.
- (4) The HP versions are required to be ducted with the air side pressure drop of 50 Pa.
- (5) Water temperature 15 ° C, outdoor temperature 35 ° C



Note: the std cabled curve of the fan is the 2nd. On demand it is possible to have a different cabling of the fan among tyhe ones indicated on the graph

Dimensions and service spaces



| Grandezze | | Vesta 80H | Vesta 80HM | Vesta 80H-HP | VESTA 80 HI | VESTA 80 HI-HP |
|---------------|----|-----------|------------|--------------|-------------|----------------|
| Dimensions | | | | | | |
| Weight | Kg | | | 39 | | |
| Width/W | mm | | | 800 | | |
| Depth/P | mm | | | 634 | | |
| High/H | mm | | | 250 | | |
| Service areas | | | | | | |
| B | mm | | | 600 | | |
| C | mm | | | 600 | | |

Series VESTA Horizontal

Isothermal dehumidifier with pre- and post-treatment water coil 450-900 m³/h



Identity

Horizontal ducted installation
Suitable for radiant air conditioning
Isothermal (neutral air)
Centrifugal fan
R134a

Versions

VESTA 110 - 240 Horizontal for ducted installation

Certifications



Plus



Description

The VESTA 110 / 240 is a ductable unit designed and built for dehumidification and fresh air intake in rooms cooled by means of radiant panels.

The unit also provides the facility for fresh air intake during winter mode operation of the system.

The unit can be operated also in complete or partial recirculation mode.

These latter two installation modes are useful during summer operation in rooms in which high levels of air exchange are required and in conditions of very high ambient air absolute humidity levels.

The energy recovery unit, which is available as an accessory, makes for significant energy savings and a consequent increase in unit efficiency in the case of operation entirely with external ambient air.

VESTA 110 / 240 was designed primarily for medium/large size homes, public premises and retail units generally with occupancy levels of 12÷20 persons per unit.

Plus

QUALITY POINTS

Centrifugal fan with 3-speed built-in motor to adjust the best operation to different working conditions.

Pre and post-treatment coils with different hydraulic connections
Return air plenum and air renewal and recovery module in combination

CONTROL PANEL

"Evolution" electronic hygrostat with variable hygrometric curve to optimize operation of the dehumidifier for Comfort purpose
EBE accessory microprocessor "advanced" for the intelligent management and efficient unit in order to ensure maximum energy saving, low noise and long life of the compressor.

EASY SERVICE

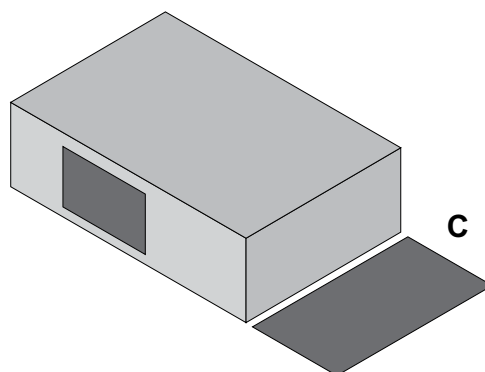
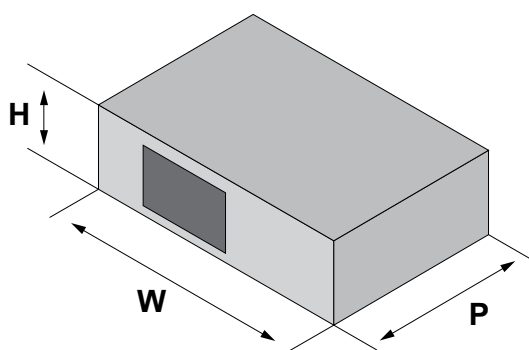
Air filter efficiency G3 corrugated acrylic

Technical data

| Size | | Vesta 110 | Vesta 240 |
|--|-----------|------------|-----------|
| Termotechnical data | | | |
| (1) Human occupancy | n° | 15 | 25 |
| General | | | |
| Power supply | (V/ph/Hz) | 230/1/50 | |
| Maximum running current | A | 4.4 | 7.5 |
| Maximum power input | W | 570 | 1100 |
| R134a refrigerant charge | g | 750 | 1200 |
| External fuse | A | 10 | 12 |
| (2) Pre and post-treatment coils hydraulic connections | n° | 4 | |
| (2) Pre and post-treatment coils hydraulic connections | " | 1/2 | |
| (2) Pre and post-treatment coils hydraulic connections | tyoe | GAS FEMALE | |
| Total sound pressure in open field at 1m distance | dB(A) | 67.6 | 68.3 |
| Fan | | | |
| Main fan fuse | A | 2.5 | |
| Centrifugal fan setting speed | n° | 3 | |
| Nominal air flow | m³/h | 450 | 900 |
| (3) Max available pressure | Pa | 200 | 145 |
| Dehumidifying performances | | | |
| (4) Dehumidification capacity | l/h | 1.25 | 2.4 |
| (4) Power input | W | 420 | 920 |
| (4) Running current | A | 2.5 | 5.2 |
| (4) Nominal water flow rate to pre-treatment coils | l/h | 120 | 200 |
| (4) Water coil pressure drop at 200 l/h | kPa | 6 | - |
| (4) Water coil pressure drop at 300 l/h | kPa | - | 11 |
| Working field | | | |
| (5) Pre-/post-treatment coils water temperature | °C | 12 ÷ 22 | |
| (5) Intake air db temperature | °C | 10 ÷ 50 | |
| (5) Relative humidity | % | 20 ÷ 90 | |

- (1) Value that depends on the level of metabolic activity and the average radiant temperature in the room.
- (2) A flow control valve is supplied for fitting to the pre-treatment coil. The connections are 1/2" male (see section "Flow control valve connection")
- (3) According to fan speed
- (4) At the following conditions, typical of operation with recovery exchanger or in partial recirculation mode: Unit inlet air: 29°C-60% RH. Pre- and post-treatment coils water inlet temperature: 15°C
- (5) In the case of very warm rooms and surroundings with high relative humidity (swimming pools, spa baths, etc.) consult us and provide details of the place of installation.

Dimensions and service spaces



| Size | | Vesta 110 | Vesta 240 |
|---------------|----|-----------|-----------|
| Dimensions | | | |
| Weight | Kg | 72 | 95 |
| Width/W | mm | 655 | 805 |
| Depth/P | mm | 875 | |
| High/H | mm | 405 | |
| Service areas | | | |
| C | mm | 700 | |

Series ASSOLO

Heat pump split without external motocondenser



Identity

Heat pump
Without external motocondenser
R410a

Certifications



Plus



Description

Assolo was designed and implemented to respond to the needs and expectations of the modern consumer.

It is a versatile conditioning system as it has no external unit, it is extremely silent and easy to install.

Assolo is a high performance product that guarantees your daily well-being.

Plus

CONTROL PANEL

Assolo has an avant-garde programming system (with remote control), thanks to the evolved electronics board and controlled battery defrosting with Fuzzy logic.

QUALITY POINTS

Assolo is one of the most compact conditioning units on the market; it is only 23 cm thick. The polycarbonate panels give the product a modern and essential look, in line with contemporary design.

Assolo is fitted with an air exchanger (50 m³/h approx. for an average room).

A patented double condensation exhaust system removes water without the use of pumps so that no water discharge piping needs to be connected in cooling mode.



SILENT

Assolo is among the best of its kind in terms of eco-saving. It guarantees top performance for its class: high energy efficiency for cooling and heating.

FLEX

Assolo is ideal for wall or floor installation, depending on the users style and needs, even in the most difficult conditions: the system can be connected outside with up to 2 m ducting (optional).

Technical data

| Size | | | ASSOLO |
|----------------------|-------------------------------------|-------|------------------|
| Cooling performances | | | |
| (1) | Nominal capacity | Watt | 2464 |
| (1) | Power input | Watt | 1060 |
| | E.e.r. | | 2.53 |
| Heating performances | | | |
| (2) | Nominal capacity | Watt | 2751 |
| (2) | Power input | Watt | 950 |
| | C.o.p. | | 2.9 |
| General | | | |
| | Room air flowrate | m3/h | 400 |
| | External air flowrate | m3/h | 550 |
| (3) | External air flowrate | m3/h | 550 |
| | Dehumidification capacity | l/h | 1.1 |
| | Fan speed | n° | 3 |
| | Refrigerant | type | R410a |
| | Main supply | | 220-240 V / 50Hz |
| | Energy class in cooling mode | | B |
| | Energy class in heating mode | | B |
| | Remote control | | Yes |
| | Active and catalytic carbon filters | | Optional |
| | Conditioning and heat pump | | Yes |
| | Dehumidifying | | Yes |
| | Ventilation and cleaning | | Yes |
| | Autoswing | | Yes |
| | Set and room temperature display | | Yes |
| | Compressor type | type | Rotary |
| Sound level | | | |
| (4) | Sound pressure - min | dB(A) | 41 |
| (5) | Sound pressure - max | dB(A) | 47 |
| | Sound power - min | dB(A) | 50 |
| | Sound power - max | dB(A) | 57 |

(1) Cooling rate test conditions (EN 14511) Indoor DB 27°C - WB 19° Outdoor DB 35°C - WB 24°

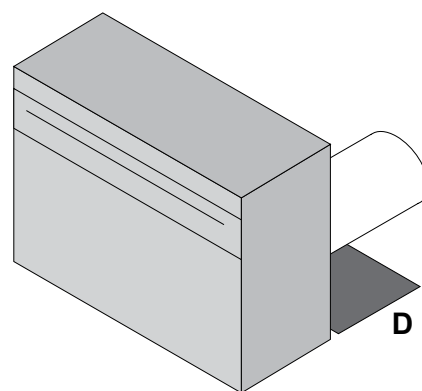
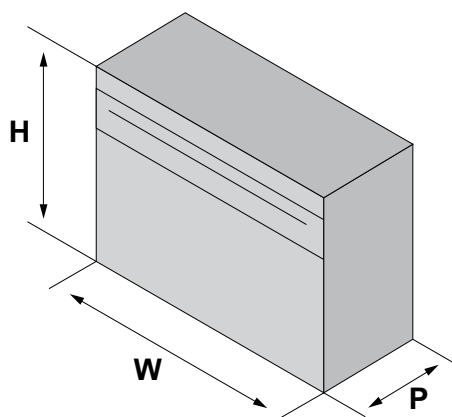
(2) Heating rate test conditions (EN 14511) Indoor DB 20°C - WB 15° Outdoor DB 7°C - WB 6°

(3) Flow rate with 2-pole motor

(4) Noise pressure was measured at a distance of 1m from the unit.

(5) Noise power was measured in compliance with ISO 23741/2 standard

Dimensions and service spaces



| Size | | ASSOLO |
|-----------------------------------|----|--------|
| Dimensions | | |
| Width/W | mm | 1000 |
| Depth/P | mm | 230 |
| High/H | mm | 580 |
| Weight with packaging | Kg | 45 |
| Wall hole diameter | mm | 162 |
| Length of 2 pipes supplied as kit | mm | 500 |
| D (max) | mm | 2000 |

General terms

Please download the official conditions from the website www.aertesi.com, section "Download", Up to date price list"



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www.aertesi.com