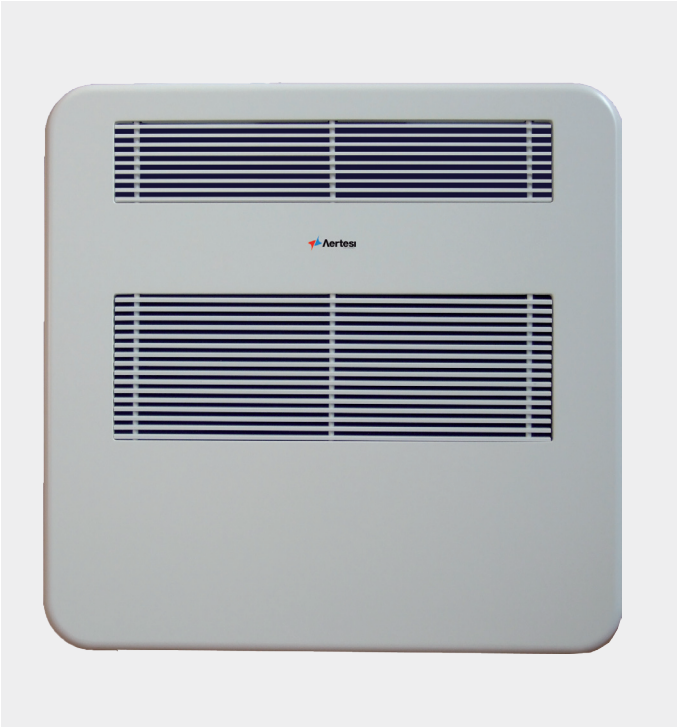
Series VESTA Vertical

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



Identity

Vertical installation
Suitable for radiant air conditioning
Isothermal (neutral air)
Centrifugal fan
R 134a

Versions

VESTA 80 V Vertical dehumidifier for exposed recessed installation
VESTA 80 VD Vertical dehumidifier for ducted installation

Certifications

CE

Plus

EASY SERVICE
QUALITY POINT
COMANDO

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.

"Evolution" electronic hygrostat

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.

COMANDO

"Evolution" electronic hygrostat with variable hygrometric curve to optimize operation of the dehumidifier for Comfort pourpose
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 easy to remove with the front panel

Technical data

	Size		Vesta 80V	Vesta 80VD
	Termotechnical data			
	Approximate treatable volume	m³	200/250	
(1)	Human occupancy	n°	7	
	Dehumidifing 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	
	Nominal total cooling capacity absorbed by the air pre and post-treatment coils	W	830	
	Δp pre and post-treatment coils	kPa	7	
	General			
	Power supply	(V/ph/Hz)	230/1/50	
(3)	Nominal running current	A	1.8	
	Maximum running current	A	2.6	
(3)	Nominal power input	W	360	
	Maximum power input	W	400	
	Electrical box protection rating		IP54	
	R134a refrigerant charge	g	285	
	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	tipo	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			
(4)	Pre-/post-treatment coils water temperature	°C	12 ÷ 22	
(4)	Intake air db temperature	°C	15 ÷ 35	
(4)	Relative humidity	%	45 ÷ 85	

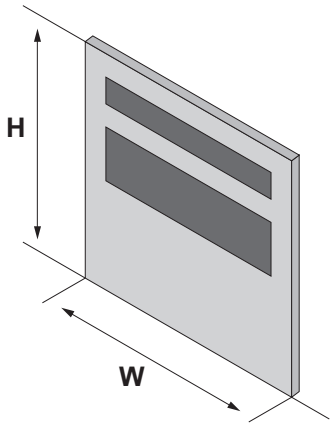
(1) Value that depends on the level of metabolic activity and the average radiant temperature in the room.

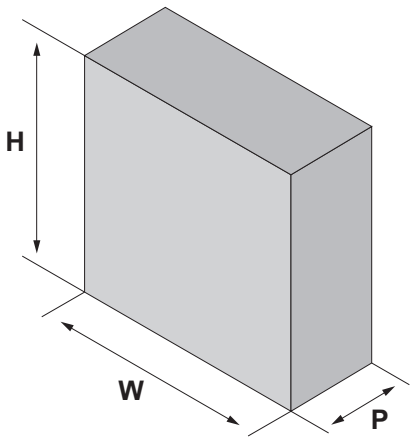
(2) Nominal airflow; intake air 25°C ÷ 65%; nominal water flow rate; pre- and post treatment coils water inlet temperature: 15 °C.

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

(4) 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 80V	Vesta 80VD
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	

Size		Vesta 80V	Vesta 80VD
VESTA V/VD			

The unit should be ever combined with EBB (standard) or EBE (evolution) circuit board.

Accessories

		Modello			Vesta 80V	Vesta 80VD
(1)	Accessories	**WPK**	Outer casing + wood front panel			
(1)		**MPK**	Outer casing + metal front panel			
(1)		**EWPK**	Outer casing + wood box for installation out of the niche on the wall			
		WCV	Wood outer casing			
(1)		**WP**	Wood frontal panel			
(1)		**MP**	Metal frontal panel			
		HCP	Wall-mounted electromechanical hygrostat with humidity sensor			
		HCP-EV	"Evolution" electronic hygrostat with variable hygrometric curve to optimize operation of the dehumidifier			
		EBB	Basis electric board with microprocessor			
		EBE	Advanced electric board with microprocessor			

(1) Colour: RAL 9010

Series VESTA Horizontal

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

Identity

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

Certifications

CE

Plus

QUALITY POINT
COMANDO
EASY SERVICE

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.

"Evolution" electronic hygrostat

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

COMANDO

"Evolution" electronic hygrostat with variable hygrometric curve to optimize operation of the dehumidifier for Comfort pourpose
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.

Technical data

	Size		Vesta 80H	Vesta 80HM	Vesta 80H-HP
	Termotechnical data				
	Approximate treatable volume	m³	200/250		
(1)	Human occupancy	n°	7		
	Dehumidifing 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		
	Nominal total cooling capacity absorbed by the air pre and post-treatment coils	W	830		
	Δp pre and post-treatment coils	kPa	7		
	General				
	Power supply	(V/ph/Hz)	230/1/50		
(3)	Nominal running current	A	1.9		
	Maximum running current	A	2.6		
(3)	Nominal power input	W	370		
	Maximum power input	W	400		
	Electrical box protection rating		IP54		
	R134a refrigerant charge	g	285		
	Pre and post-treatment coils hydraulic connections	n°	2	4	2
	Pre and post-treatment coils hydraulic connections	"	1/2		
	Pre and post-treatment coils hydraulic connections	tipo	GAS femmina		
	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		
	Working field				
(4)	Pre-/post-treatment coils water temperature	°C	12 ÷ 22		
(4)	Intake air db temperature	°C	15 ÷ 35		
(4)	Relative humidity	%	45 ÷ 85		

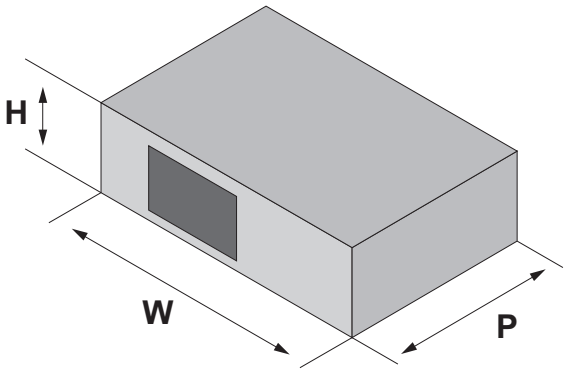
(1) Value that depends on the level of metabolic activity and the average radiant temperature in the room.

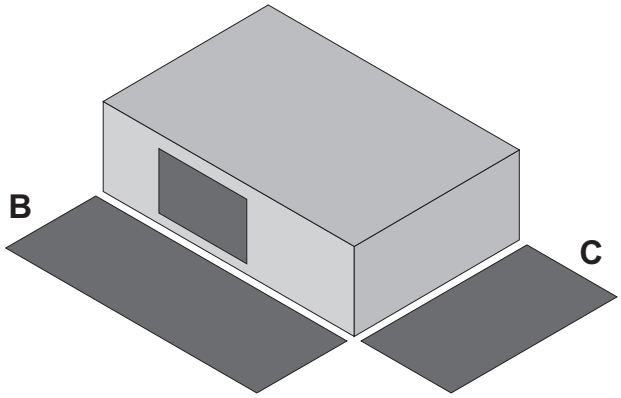
(2) Nominal airflow; intake air 25°C ÷ 65%; nominal water flow rate; pre- and post treatment coils water inlet temperature: 15 °C.

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

(4) 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 80H	Vesta 80HM	Vesta 80H-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		

Size		Vesta 80H	Vesta 80HM	Vesta 80H-HP
VESTA 80H/HM/HP				

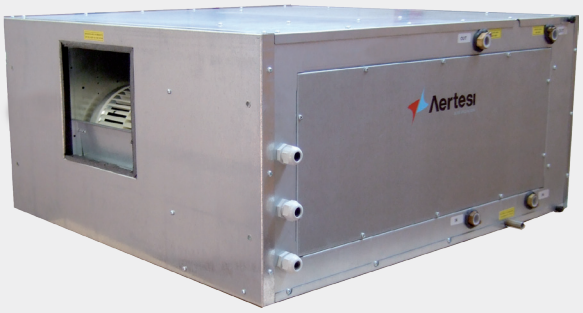
VESTA 80 HM inclusive of electronic board.
The units VESTA 80H and VESTA 80H-HP should be ever combined with EBB (standard) or EBE (evolution) circuit board.

Accessories

	Modello			Vesta 80H	Vesta 80HM	Vesta 80H-HP
Accessories	HCP	Wall-mounted electromechanical hygrostat with humidity sensor	€			
	HCP-EV	"Evolution" electronic hygrostat with variable hygrometric curve to optimize operation of the dehumidifier	€			
	EBB	Basis electric board with microprocessor	€		-	
	EBE	Advanced electric board with microprocessor	€		-	

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

Horizontal for ducted installation

Certifications

CE

Plus

QUALITY POINT
COMANDO
EASY SERVICE

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.

"Evolution" electronic hygrostat

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

COMANDO

"Evolution" electronic hygrostat with variable hygrometric curve to optimize operation of the dehumidifier for Comfort pourpose 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	(V/ph/Hz)
	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	tipo	GAS femmina	
	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
	Dehumidifing 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.

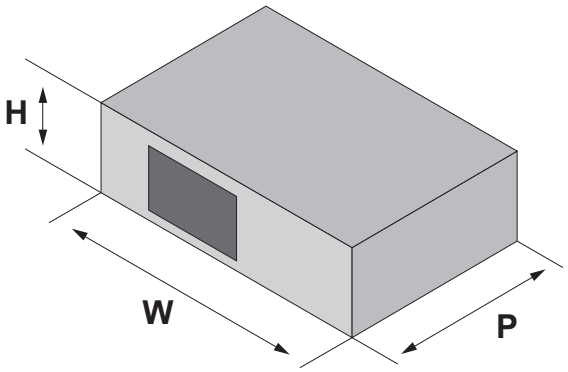
(2) A flow control valve is supplied for fitting to the pre-treatment coil. The connections are 1/2" male (see section "Flow control valve connection")

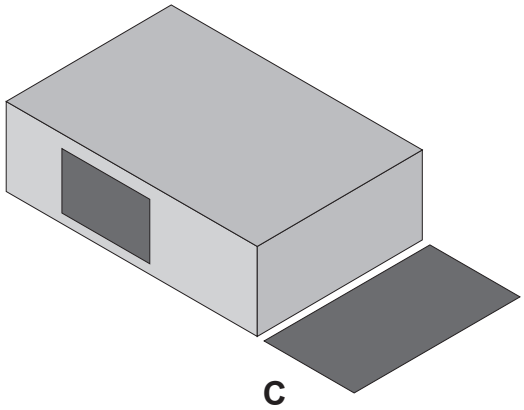
(3) According to fan speed

(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	

Size		Vesta 110	Vesta 240
VESTA 110-240			

Accessories

	Modello			Vesta 110	Vesta 240
Various accessories	HR 110	Cross-flow recovery heat exchanger			-
	PL110	Intake plenum for Vesta 110			-
	HR 240	Counter-flow energy recovery heat exchanger		-	
	PL240	Intake plenum for Vesta 240		-	
	HCP	Wall-mounted electromechanical hygrostat with humidity sensor			
	HCP-EV	Electronic humidistat with variable operating humidity curve "Evolution"			