Aertesi airpower

VESTA DRY

DEHUMIDIFIERS FOR RADIANT SYSTEMS

SOMETHING DIFFERENT

GB

VESTA DRY

DEHUMIDIFIERS FOR RADIANT SYSTEMS

The dehumidification units Vesta Dry units have been designed to guarantee comfort, reliability, strength and durability. They are suitable for dehumidifying civil, residential, services and commercial buildings.
In particular, they can integrate radiant systems for winter heating and summer cooling and can be managed via their own regulation system or via external controls.

INSTALLATIONS VERTICAL & HORIZONTAL

THE UNITS CAN BE SUPPLIED IN A VERTICAL RECESSED VERSION OR A HORIZONTAL FALSE CEILING VERSION.

SUITABLE FOR DUCTING

BOTH VERSIONS CAN BE DUCTED, THANKS TO A WIDE RANGE OF AERAULIC ACCESSORIES.

ISOTHERM VERSION

NEUTRAL AIR VERSION, WITH REFRIGERANT CIRCUIT.
IN SUMMER OPERATION MODE, THE UNIT MUST BE SUPPLIED WITH WATER FROM THE RADIANT CIRCUIT, WHILE IN WINTER OPERATION MODE THE HEATING CAPACITY OF THE RADIANT SYSTEM CAN BE INTEGRATED.

VERSION WITH INTEGRATION

THE VERSIONS WITH INTEGRATION ARE EQUIPPED WITH A REFRIGERATION CIRCUIT AND PRE- AND POST-TREATMENT WATER COILS AND ALWAYS NEED TO BE FED WATER FROM THE RADIANT CIRCUIT.
IN THIS WAY THEY CAN INTEGRATE SUMMER COOLING CAPACITY OR WINTER HEATING CAPACITY.
IN MID-SEASONS, IT MAY BE ENOUGH FOR COMFORT TO ONLY ENSURE SUPPLY FOR THE HEAT EXCHANGE COILS OF THE DEHUMIDIFIER.

DEHUMIDIFICATION
20.4/48.1 l/24h

INTEGRATION
1.3/2.9 kw

HEATING
0.7/2.9 kw

AIR FLOW
260-520 m³/h

INSTALLATIONS

H0
HORIZONTAL
RECTANGULAR FLANGE

H1
HORIZONTAL
CIRCULAR FLANGE

V0
VERTICAL
WITHOUT FLANGE

VERSION

D ISOTHERMAL DEHUMIDIFICATION

I ISOTHERMAL DEHUMIDIFICATION + INTEGRATION

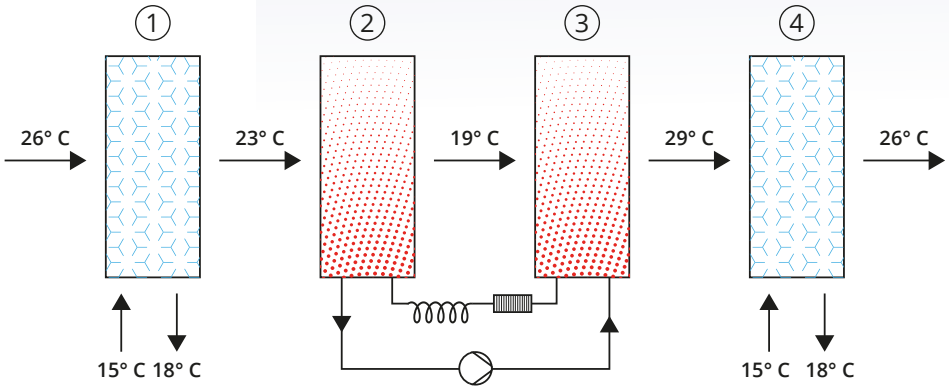
IDENTIFICATION MODEL

VED	80	H1	B*	D
MODEL	SIZE	INSTALLATION	ELECTRONIC BOARD	VERSION

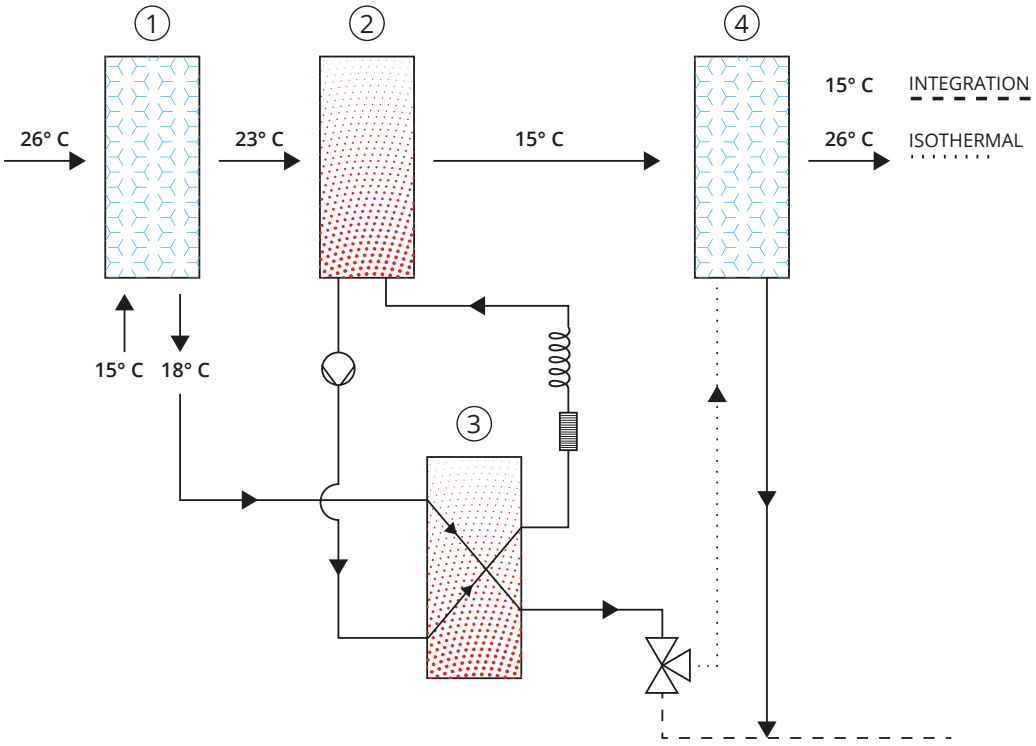
*
B BASIC ELECTRONIC BOARD EBB
E ADVANCED ELECTRONIC BOARD EBE/EBE-I

CONFIGURATIONS

VERSION D: ISOTHERMAL



VERSION I: WITH INTEGRATION



① PRE TREATMENT COIL (WATER)
② EVAPORATOR
③ CONDENSER
④ POST TREATMENT COIL (WATER)

DIMENSIONAL DWGS

HORIZONTAL

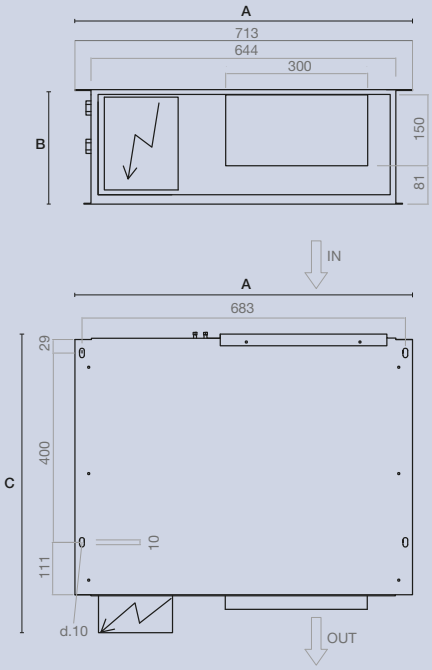
SIZE	A	B	C	WEIGHT
80 D	713	242	631	39
80 I	713	242	631	39
160 D	753	333	629	55
160 I	753	333	629	55

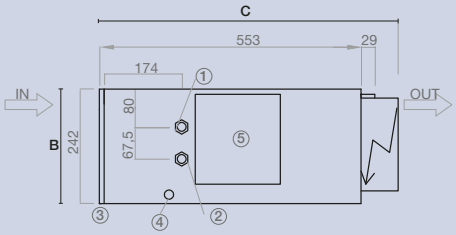
VERTICAL

SIZE	A	B	C	WEIGHT
80	695	705	291	36

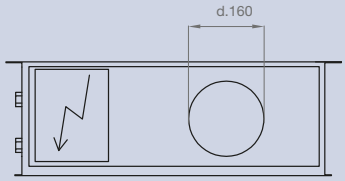
A = length mm
B = height mm
C = depth mm

VED 80 HD HORIZONTAL
ISOTHERMAL DEHUMIDIFICATION



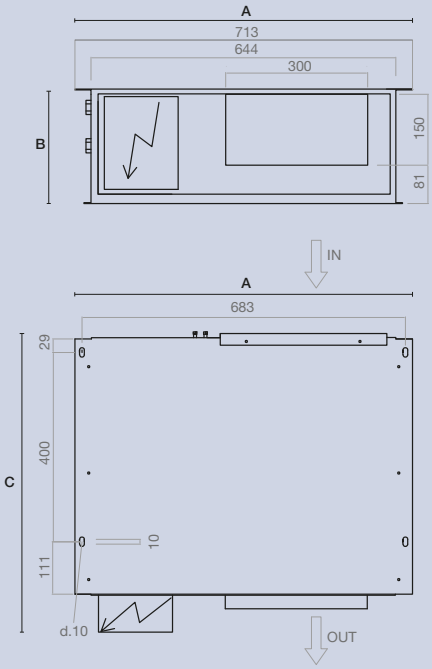


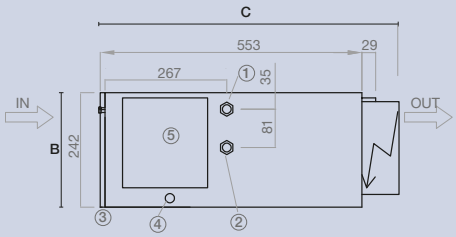
VERSION WITH CIRCULAR AIR CONNECTIONS



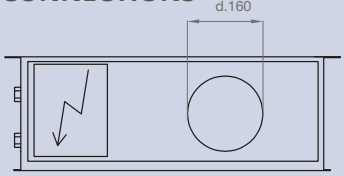
1 = Water outlet ½"F
2 = Water inlet ½" F
3 = Air filter
4 = Condensate drain DN 20 mm
5 = Refrigerant circuit inspection panel

VERSIONE 80 HI HORIZONTAL
ISOTHERMAL DEHUMIDIFICATION + INTEGRATION



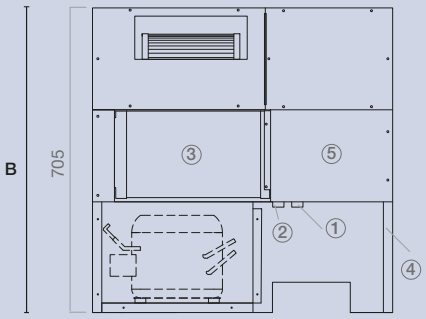


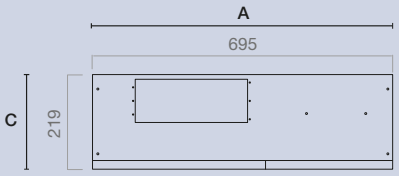
VERSION WITH CIRCULAR AIR CONNECTIONS

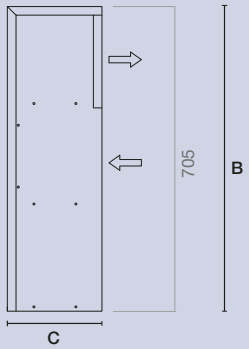


1 = Water outlet ½"F
2 = Water inlet ½" F
3 = Air filter
4 = Condensate drain DN 20 mm
5 = Refrigerant circuit inspection panel

VED 80 V VERTICAL

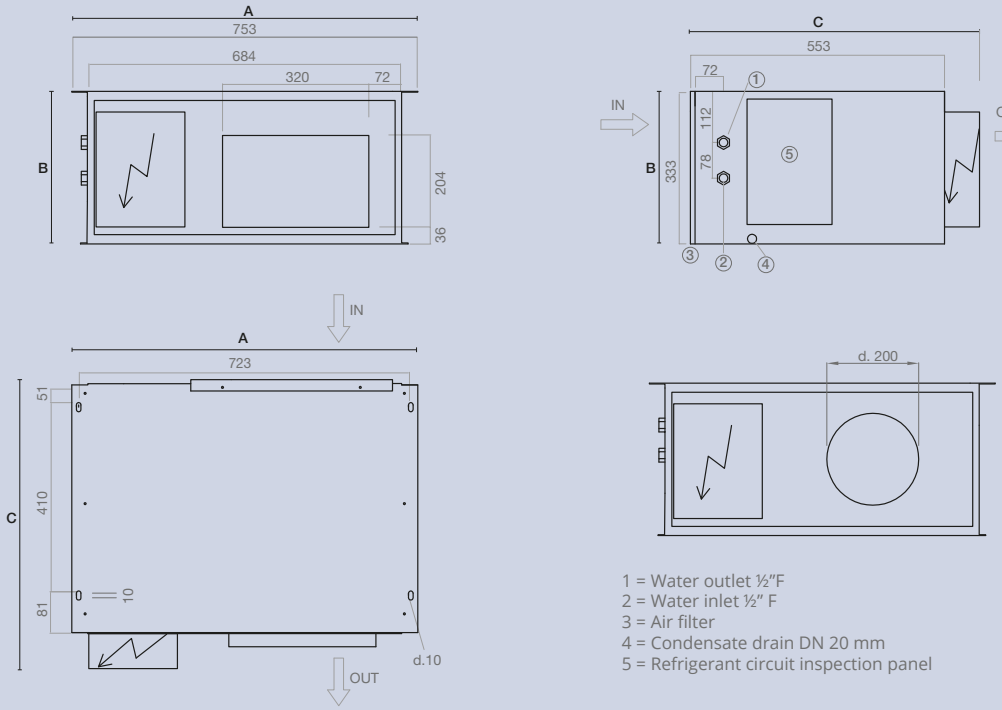






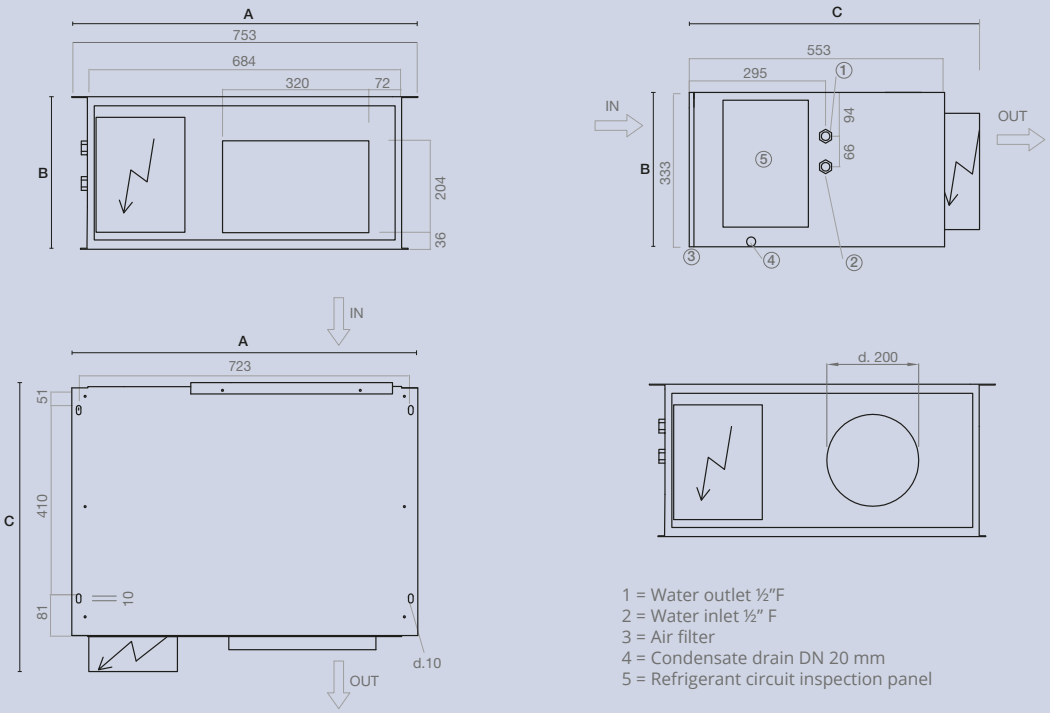
1 = Water outlet ½"F
2 = Water inlet ½" F
3 = Air filter
4 = Condensate drain DN 16 mm
5 = Refrigerant circuit inspection panel

VED 160 HD HORIZONTAL ISOTHERMAL DEHUMIDIFICATION



1 = Water outlet ½"F
2 = Water inlet ½" F
3 = Air filter
4 = Condensate drain DN 20 mm
5 = Refrigerant circuit inspection panel

VED 160 HI HORIZONTAL ISOTHERMAL DEHUMIDIFICATION + INTEGRATION



1 = Water outlet ½"F
2 = Water inlet ½" F
3 = Air filter
4 = Condensate drain DN 20 mm
5 = Refrigerant circuit inspection panel

VESTA DRY

TECHNICAL DATA

			VED 80		VED 160	
			I	D	I	D
Dehumidification capacity		l/24h	20.4	20.4	48.1	48.1
Total cooling capacity		W	1270	nd	2820	nd
Total heating capacity (50°C water inlet)		W	1400	850	2840	1690
Total heating capacity (35°C water inlet)		W	690	425	1400	850
Power supply		V-Hz	230V-50Hz		230V-50Hz	
Compressor power absorption		W	300	300	600	600
Delivery fan power	Min speed	W	- (Version V) 42 (Version H)		42	
	Med speed	W	39 (Version V) 52 (Version H)		72	
	Max speed	W	49 (Version V) 66 (Version H)		119	
Fan working head	Min speed	Pa	-- (version V) 0 (version H)		44	
	Med speed	Pa	0 (Version V) 28 (Version H)		115	
	Max speed	Pa	32 (Version V) 52 (Version H)		220	
Coil water flow rate		l/h	210	150	430	320
Hydraulic circuit pressure drops		kPa	21	9	24	14
Delivery air flow		m3/h	260		520	
Maximum absorbed current		A	2.7	2.7	5.3	5.3
Refrigerant gas			R134a	R134a	R410a	R410a
Weight of horizontal version (H)		kg	39		55	
Weight of vertical version (V)		kg	36		-	
Sound power		dB(A)	48	48	52	52
Sound pressure (*)		dB(A)	39	39	43	43

Sound pressure measured under the following conditions, at a 1.5m distance from the unit
80 V VERSION: medium fan speed
80 H VERSION: min fan speed
160 H VERSION: min fan speed

PERFORMANCE VALUES ARE REFERRED TO THE FOLLOWING CONDITIONS
SUMMER:
Room temperature 26°C; relative humidity 65%,
Water inlet temperature 15°C (for both versions D and I)
WINTER:
Room temperature 20°C; relative humidity 50%
Water inlet temperature: refer to data in table

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