

RESIDENTIAL VENTILATION

Ubiflux Vigor ventilation units
with heat recovery



VENTILATION

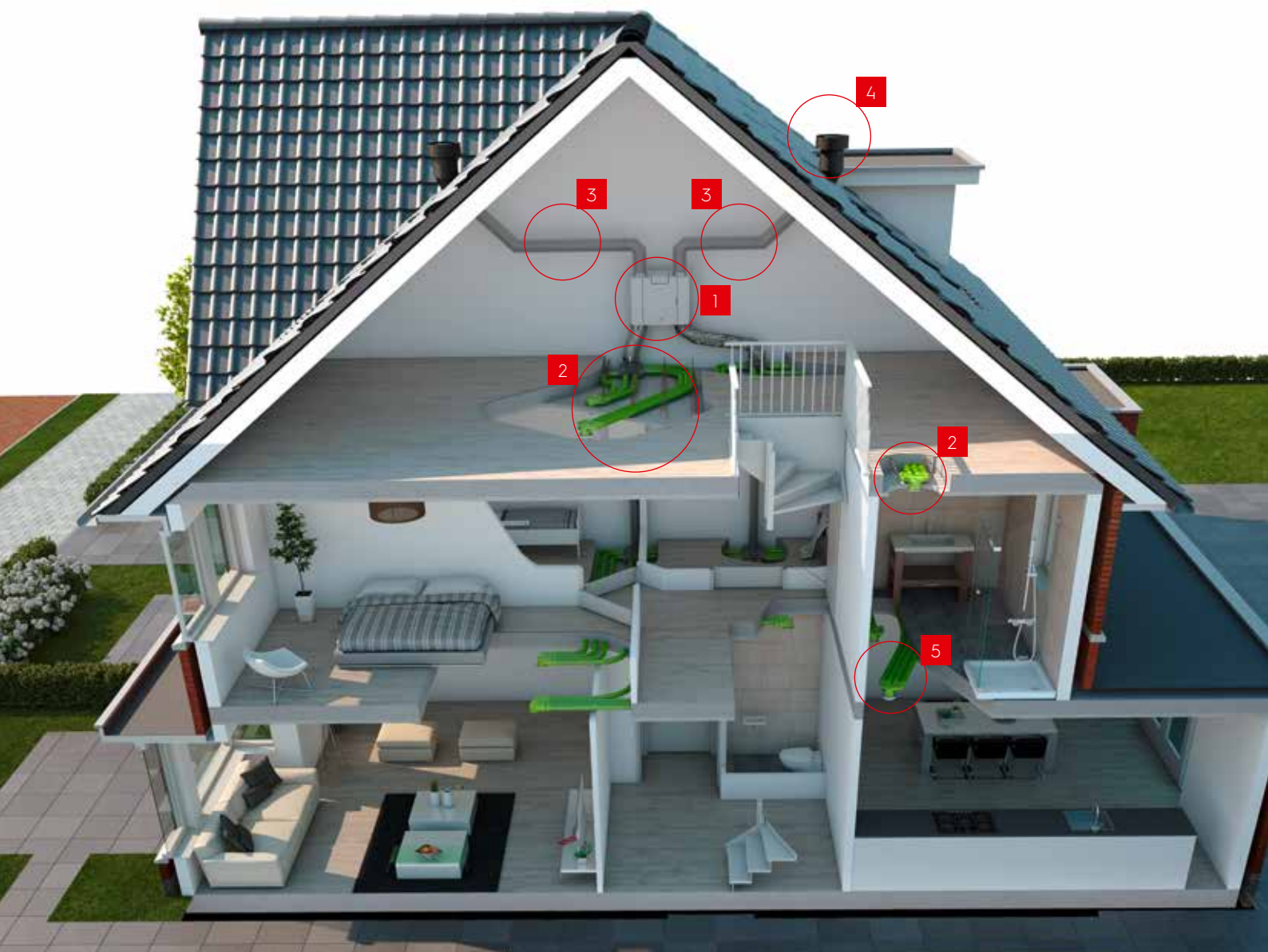
Always fresh and clean air in your home: our smart and complete solutions

Ubbink has been the reference for high-quality ventilation systems throughout Europe, for many years.

As part of the German Centrotherm Group, we offer total solutions for residential ventilation, with all components designed and manufactured in-house. We are unique in that and we are proud of it!

A complete Ubbink ventilation system consists of 5 parts, from the ventilation unit to the room valve as a finishing element:

1. **Ubiflux heat recovery units:** extremely compact ventilation units for walls or ceiling
2. **Air Excellent air distribution system:** flexible and modular air distribution system applicable in all ventilation systems
3. **Aerfoam insulated pipe system:** prevents heat loss and condensation in ventilation systems
4. **Roof & Wall terminals and facade inlet hoods:** for flat and pitched roofs, insulated and non-insulated
5. **Haelix supply and discharge valves:** circular and square designs



Ubiflux Vigor heat recovery units

Pure power

Ubiflux Vigor stands for energy efficient, extremely compact and high thermal efficiency combined with low electrical consumption. The result is an improved aerodynamic design thanks to the in-house developed Holmak heat exchanger.

Modern communications

- Every Ubiflux Vigor is equipped with advanced communications, allowing units to be connected in different ways. Units are equipped as standard with an RJ12 connection as well as an e-bus and modbus:
- RJ12 cable is connected to a control via a 4-position switch
- E-bus is connected to the clock module and demand-controlled ventilation

Extensive operation options

All standard units can be connected with four CO₂ sensors and have a direct connection for one humidity sensor on the printed circuit board. Up to eight CO₂ sensors can be installed with the three-way valve. The dongle connection on the unit is very practical for reading the unit as an installer and using wireless sensors in the future. The plus module has a (W)LAN connection and two 0-10V connections. This allows you to easily use the Ubiflux Home application. This application offers the possibility to monitor different conditions for perfect air quality.



Compact and energy-efficient



Ubiflux Vigor wall units are very compact and energy efficient. The units are ready for direct assembly and do not require any adaptation on-site. Ubiflux Vigor units are available in left and right versions. All units are available with four top connections. The Ubiflux Vigor W325 and W400 are also available with 2 upper connections and 2 lower connections. For maintenance and replacement of filters, you can rely on the maintenance wizard and intelligent help from the device itself.

- Extremely compact and energy-efficient unit with very high thermal efficiency
- Constant flow 2.0 offering very precise balanced extraction and supply
- TFT touch screen display with a clear menu structure, including installation and maintenance wizards
- Convenient maintenance with minimal spare parts
- Siphon with ball included

Ubiflux Vigor units are available with following ventilation capabilities:

Ubiflux Vigor W225	50 – 225 m ³ /hr @ 200Pa
Ubiflux Vigor W325	50 – 325 m ³ /hr @ 200Pa
Ubiflux Vigor W400	50 – 400 m ³ /hr @ 200Pa
Ubiflux Vigor W450	50 – 450 m ³ /hr @ 200Pa
Ubiflux Vigor W600	50 – 600 m ³ /hr @ 200Pa



Ubiflux Vigor W225 fits perfectly into small dwellings and apartments.

The Plusprint Ubiflux Vigor / Ubiflux Home

The Plusprint Ubiflux Vigor offers many possibilities to use the ventilation system at peak times and/or in exceptional situations. The module also offers advantages practices for the installer.

- Connection (W)Lan
- 2 input external switch cards
- 2 output external switch cards

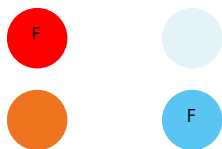
- Greater comfort in the home
- Remote control
- Guarantee of an optimal indoor climate
- Easy to install
- Easy service and maintenance



Left and right handed versions

Ubiflux Vigor units are available in left or right handed versions. In a left-hand version, the “warm” connections (from the home and to the home) are on the left side of the unit. The condensation drain is then mounted in the right opening under the unit. In a right-hand version, the “warm” connections (to the home and out of the home) are on the right side of the unit.

Left handed version



Right handed version



●	Exhaust
●	Supply
●	Outwards
●	Outside air
F	Filter

Ubiflux Vigor heat recovery units: an overview

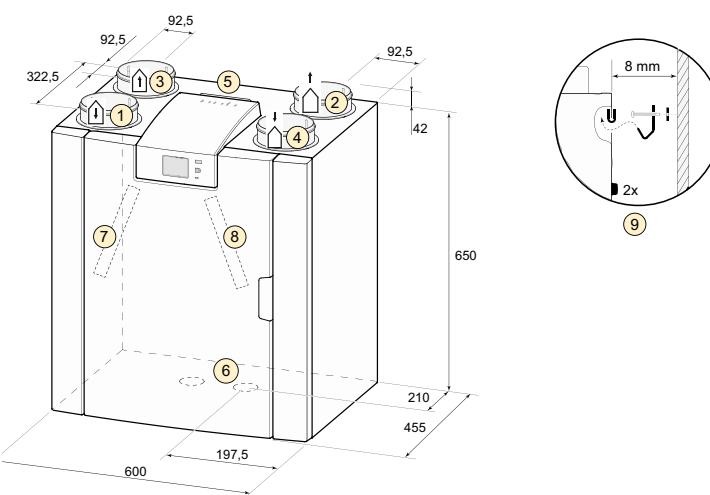
	Ubiflux VIGOR W225 4/0	Ubiflux VIGOR W325 4/0	Ubiflux VIGOR W400 4/0	Ubiflux VIGOR W450 4/0	Ubiflux VIGOR W600 4/0
					
Application	Small apartment	Medium-sized house	Large house	Large house	Large house
General data					
Performance 2/2	No	Yes	Yes	No	No
Dimensions (WxHxD)	600 x 650 x 455 mm	750 x 650 x 560 mm	750 x 650 x 560 mm	850 x 800 x 661 mm	850 x 800 x 661 mm
Ø Spigot dimensions	4 x Ø 125	4 x Ø 160	4 x Ø 180	4 x Ø 200	4 x Ø 200
Preheater	Continuous 0-700 W	Continuous 0-1000 W	Continuous 0-1000 W	Continuous 0-1000 W	Continuous 0-1000 W
Filter class	G4 (ISO Coarse ≥ 60%)	G4 (ISO Coarse ≥ 60%)	G4 (ISO Coarse ≥ 60%)	G4 (ISO Coarse ≥ 60%)	G4 (ISO Coarse ≥ 60%)
Weight	29 kg	37 kg	37 kg	49 kg	49 kg
SFP ***	0,17 W/m³/h	0,15 W/m³/h	0,17 W/m³/h	0,20 W/m³/h	0,25 W/m³/h
Siphon	Standard	Standard	Standard	Standard	Standard
Ventilation capacity	50-225 m³/h bij 200 Pa	50-325 m³/h bij 200 Pa	50-400 m³/h bij 200 Pa	50-450 m³/h bij 190 Pa	50-600 m³/h bij 190 Pa
Energy & sound ratings					
Energy rating	A A+ *	A A+ *	A A+ *	A A+ *	A A+ *
Sound output	39 dBA	41 dBA	50 dBA	47 dBA	54 dBA
EPB data					
Motor type	DC	DC	DC	DC	DC
Electrical consumption/fan	42W	59W	77W	96W	143W
Efficiency	89% => 125 m³/h	88% => 224 m³/h	87% => 297 m³/h	92% => 75 m³/h	92% => 100 m³/h
	87% => 175 m³/h	87% => 275 m³/h	85% => 401 m³/h	88% => 315 m³/h	86% => 420 m³/h
	85% => 225 m³/h	86% => 322 m³/h		86% => 451 m³/h	84% => 594 m³/h
Automatic control	Yes	Yes	Yes	Yes	Yes
Summer bypass	Completely	Completely	Completely	Completely	Completely
Demand management	Option	Option	Option	Option	Option
F reduc ****	0,49 - 0,53 - 0,61 - 0,87	0,49 - 0,53 - 0,61 - 0,87	0,49 - 0,53 - 0,61 - 0,87	0,49 - 0,53 - 0,61 - 0,87	0,49 - 0,53 - 0,61 - 0,87

Ubiflux Vigor W225

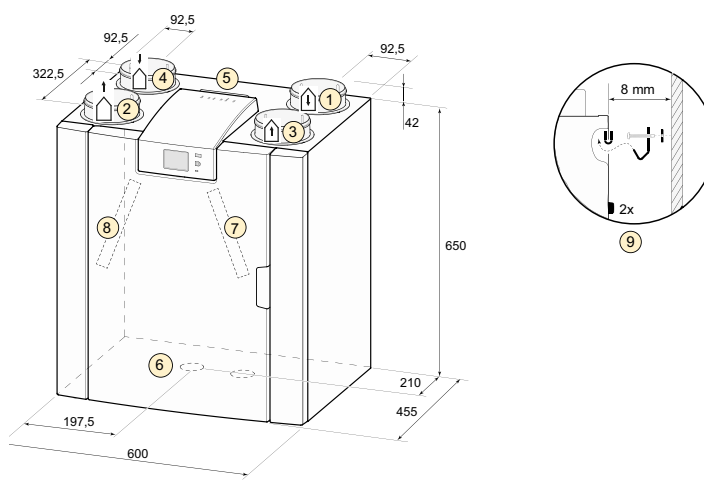
Connections and dimensions

The Ubiflux Vigor unit is available in left and right handed version. In a left-hand version, the “warm” connections (from 3 and to 1) are on the left side of the unit; the siphon is then mounted in the right opening under the unit. In a right-hand version, the “warm” connections (1 & 3) are on the right side of the unit.


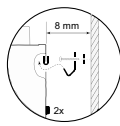
Left handed version 4/0 connections



Right handed version 4/0 connections

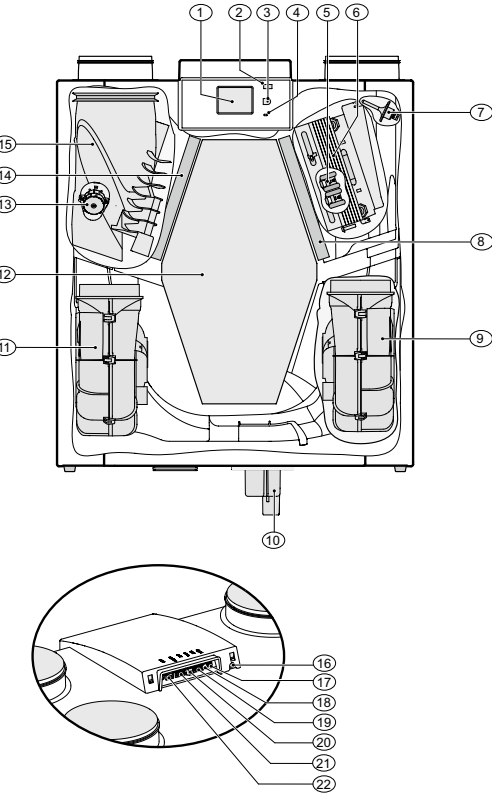


All dimensions in millimeters. Collar rings diameter: 125 mm.

1		2		3		4	
	To home		Outwards		From home		From the outside
5	Electrical connection						
6	Siphon connection						
7	Exhaust air filter						
8	Supply air filter						
9	Suspension						

Components

The unit shown below is a left handed version; In the right handed version, the connection of the preheater, bypass valve and siphon connection are mounted in a mirrored orientation.



1	Touchscreen
2	USB connection (x13)
3	Service connection
4	Indicator LED
5	Preheater maximum protection
6	Preheater
7	Temperature sensor
8	Supply filter
9	Exhaust fan
10	Siphon connection
11	Supply fan
12	Heat exchanger
13	Motor bypass valve
14	Exhaust filter
15	Bypass valve
16	Power cord 230v
17	Relay output (x19)
18	24v onnection (x16)
19	E-bus connection (x17)
20	24v connection (x16)
21	Modbus/bus connection (x15)
22	Connection multiple switch (x14)

Sound output

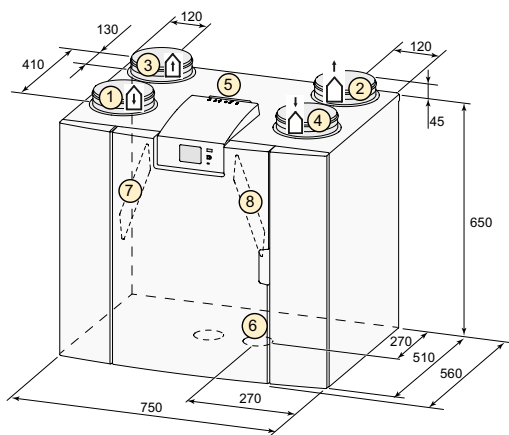
Ubiflux Vigor W225							
Ventilation capacity [m³/h]		50	100	100	150	150	225
Sound level Lw (A)	Static pressure [Pa]	25	25	50	50	100	100
	Cabinet [dB(A)]	28	31	33,5	38,5	40,5	45,5
	From home [dB(A)]	<30	<34,5	<36,5	44	43	47,5
	To home[dB(A)]	43,5	48,5	50,5	55	57,5	62,5

Ubiflux Vigor W325 & W400

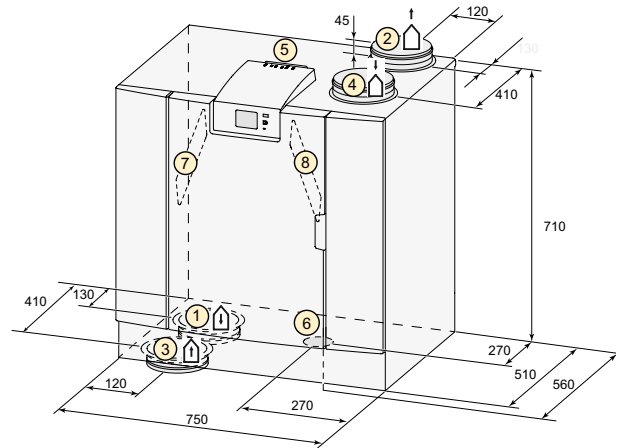
Connections and dimensions

The Ubiflux Vigor unit is available in left and right handed version. In a left-hand version, the “warm” connections (from 3 and to 1) are on the left side of the unit; the siphon is then mounted in the right opening under the unit. In a right-hand version, the “warm” connections (1 & 3) are on the right side of the unit.

Left handed version

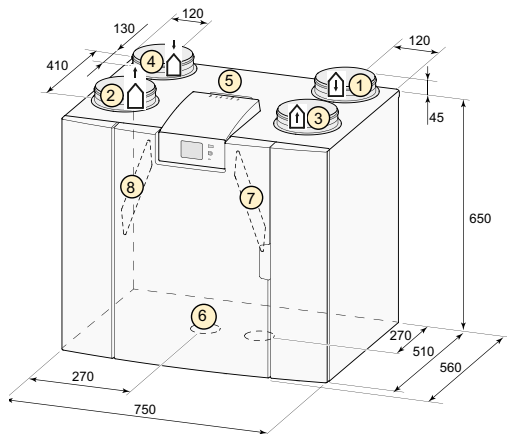


4-0 connections

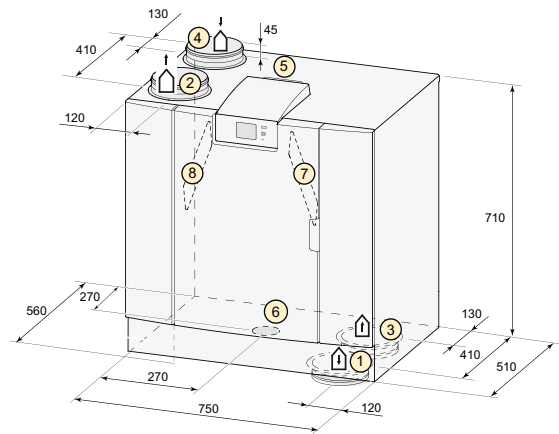


2-2 connections

Right handed version





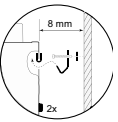


4-0 connections



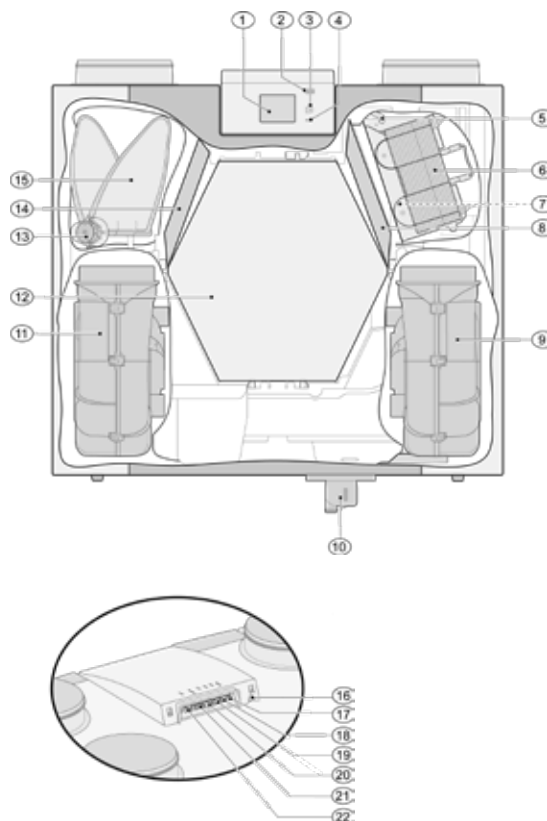
2-2 connections

All dimensions in millimeters. Collar rings diameter: W325 = 160 mm; W400 = 180 mm.

1		2		3		4	
	To home		Outwards		From home		From the outside
5							
6							
7							
8							
9							

Components

The unit shown below is a left-hand version; In the right-hand version, the connection of the preheater, bypass valve and siphon connection are mounted in a mirrored orientation.



1	Touchscreen
2	USB connection (x13)
3	Service connection
4	Indicator LED
5	Preheater maximum protection
6	Preheater
7	Temperature sensor
8	Supply filter
9	Exhaust fan
10	Siphon connection
11	Supply fan
12	Heat exchanger
13	Motor bypass valve
14	Exhaust filter
15	Bypass valve
16	Power cord 230v
17	Relay output (x19)
18	24v onnection (x16)
19	E-bus connection (x17)
20	24v connection (x16)
21	Modbus/bus connection (x15)
22	Connection multiple switch (x14)

Sound output

Ubiflux Vigor W325								
Ventilation capacity [m³/h]		100	150	150	200	200	250	325
Sound level Lw (A)	Static pressure [Pa]	25	25	50	50	100	150	150
	Cabinet [dB(A)]	27	34	35	40	41	46	51
	From home [dB(A)]	32	40	38	46	44	49	55
	To home [dB(A)]	44	49	51	55	57	62	69
	From outside *[dB(A)]	-	-	-	-	-	-	56
	Outside *[dB(A)]	-	-	-	-	-	-	68

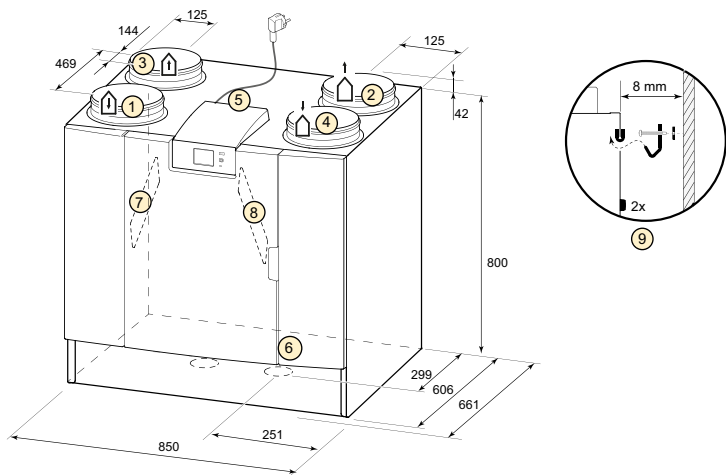
Ubiflux Vigor W400						
Ventilation capacity [m³/h]		150	250	350	400	400
Sound level Lw (A)	Static pressure [Pa]	25	50	100	100	150
	Cabinet [dB(A)]	37	43,5	52	55	57,5
	From home [dB(A)]	43,5	46,5	51	61	58
	To home [dB(A)]	50	58	69,5	71	72
	From outside *[dB(A)]	-	-	-	-	57
	Outside *[dB(A)]	-	-	-	-	70,5

Ubiflux Vigor W450 & W600

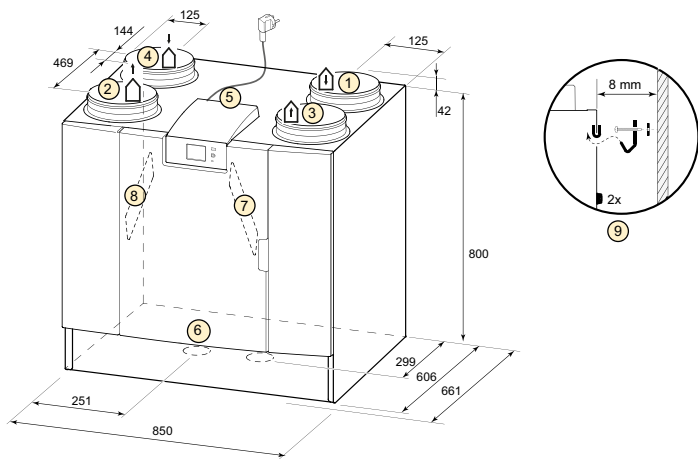
Connections and dimensions

The Ubiflux Vigor unit is available in a left or right version. In a left-hand version, the “warm” connections (from home 3 and to home 1) are on the left side of the unit; the siphon is then mounted in the right opening under the unit. In a right-hand version, the “warm” connections (1 & 3) are on the right side of the unit.




Left handed version



Right handed version

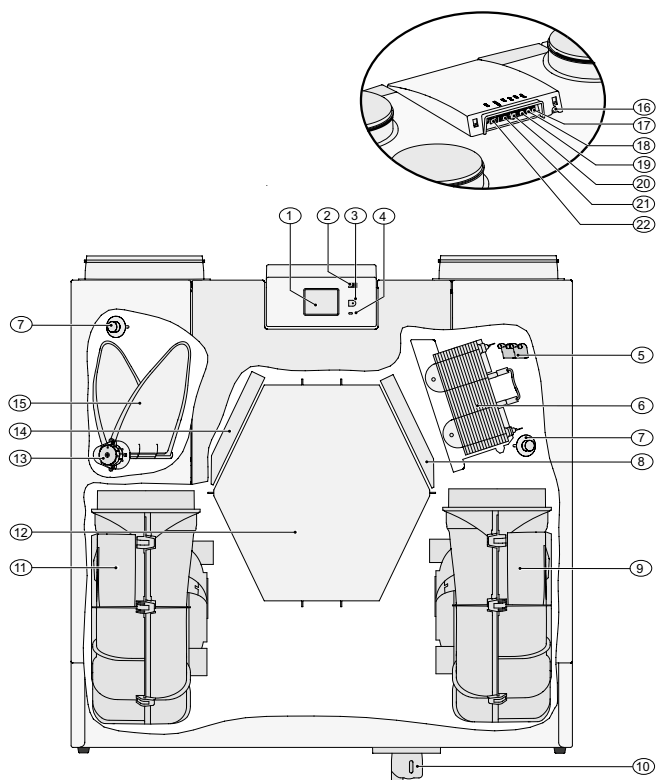


Alle maten in millimeters. Diameter van alle boordringen is 200 mm.

1		2		3		4	
	To home		Outwards		From home		From the outside
5	Electrical connection						
6	Siphon connection						
7	Exhaust air filter						
8	Supply air filter						
9	Suspension						

Components

The unit shown below is a left-hand version; In the right-hand version, the connection of the preheater, bypass valve and siphon connection are mounted in a mirrored orientation.



1	Touchscreen
2	USB connection (x13)
3	Service connection
4	Indicator LED
5	Preheater maximum protection
6	Preheater
7	Temperature sensor
8	Supply filter
9	Exhaust fan
10	Siphon connection
11	Supply fan
12	Heat exchanger
13	Motor bypass valve
14	Exhaust filter
15	Bypass valve
16	Power cord 230v
17	Relay output (x19)
18	24v onnection (x16)
19	E-bus connection (x17)
20	24v connection (x16)
21	Modbus/bus connection (x15)
22	Connection multiple switch (x14)

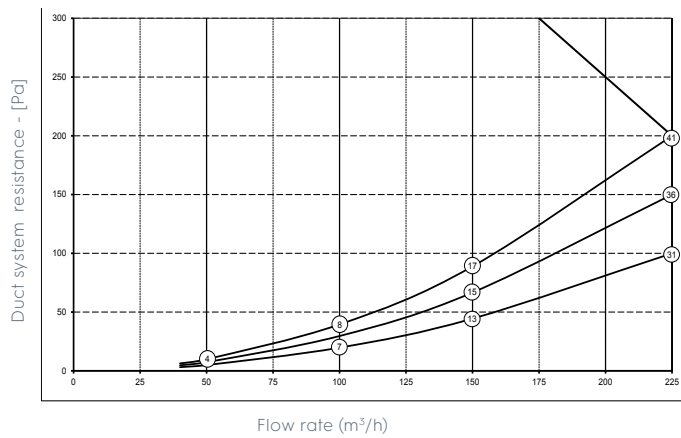
Sound output

Ubiflux Vigor W450								
Ventilation capacity [m³/h]		150	200	200	300	300	450	450
Sound level Lw (A)	Static pressure [Pa]	25	25	50	50	100	100	150
	Cabinet [dB(A)]	37,5	36,5	42	45,5	46	52	54
	From home [dB(A)]	35	38,5	40	45	42,5	49	49,5
	To home [dB(A)]	43,5	43,5	47,5	53	53,5	59	59
	From outside *[dB(A)]	-	-	-	-	-	50,5	-
	Outside *[dB(A)]	-	-	-	-	-	63	64

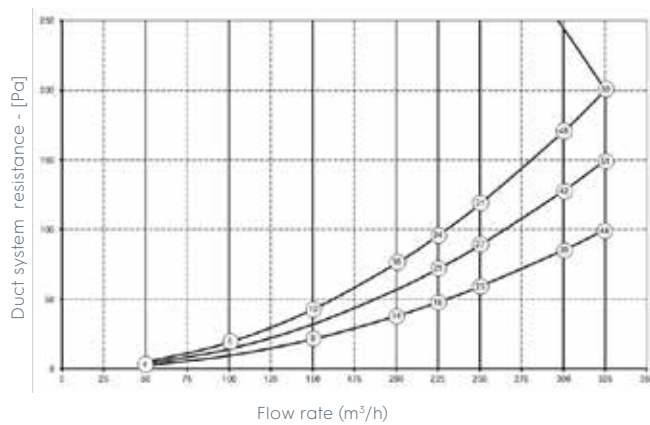
Ubiflux Vigor W600								
Ventilation capacity [m³/h]		150	200	300	450	450	500	600
Sound level Lw (A)	Static pressure [Pa]	25	50	100	100	150	150	150
	Cabinet [dB(A)]	37,5	42	46	52	54	54,5	56,5
	From home [dB(A)]	35	40	42,5	49	49,5	52	56,5
	To home [dB(A)]	43,5	47,5	53,5	59	59	61,5	67
	From outside *[dB(A)]	-	-	-	50,5	-	-	-
	Outside *[dB(A)]	-	-	-	63	64	68,5	76,5

Fan performance

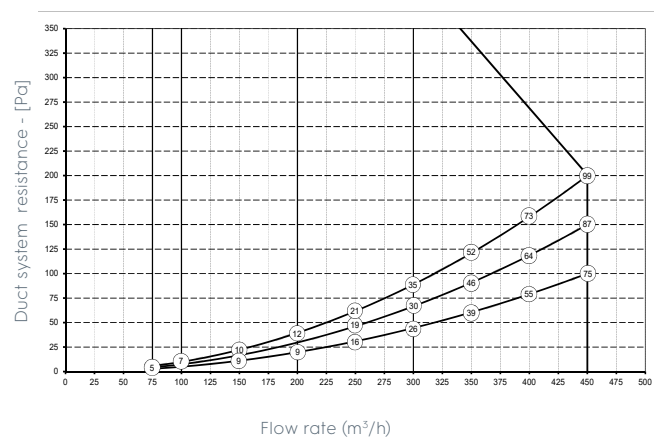
Ubiflux Vigor W225



Ubiflux Vigor W325

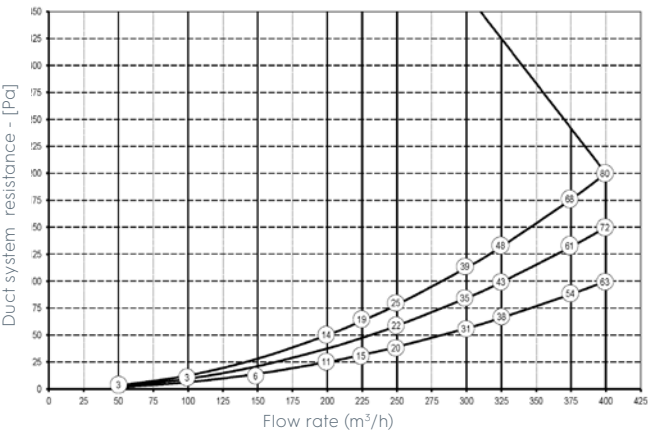


Ubiflux Vigor W400

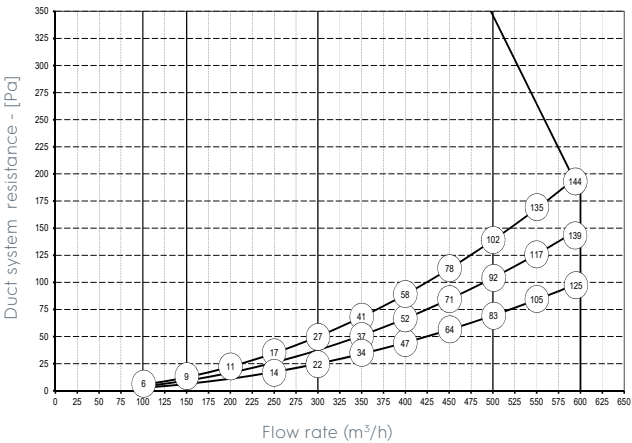


NB: The values circled in the graphs are the power used (W) per fan.

Ubiflux Vigor W450



Ubiflux Vigor W600



Ecodesign

Ecodesign (climate zone average)	W225	W325	W400	W450	W600
Manually operated	A	A	A	A	A
Clock regulation	A	A	A	A	A
Central control with 1 sensor	A+	A+	A+	A+	A+
Local control with 2 or more sensors in combination with at least 2-zone flow control	A+	A+	A+	A+	A+

The diagram illustrates the wiring for the UWA2-E control unit. It shows the connection of various components to the unit's terminals:

- Power Supply:** 230VAC 50Hz is connected to X01.
- Communication:** RS485-A, RS485-B, and RS485-ground are connected to X15 and X16. A ModBus connection is shown with a red terminal block.
- Sensors:** A CO₂ sensor (16) is connected to X17 (eBus) and X18 (24V). A temperature sensor (17) is connected to X19.
- Actuators:** A valve actuator (18) is connected to X02 and X03. A pump (13) is connected to X04 and X05. A fan (11) is connected to X06 and X07.
- Other Components:** A relay (14) is connected to X01 and X02. A switch (15) is connected to X03 and X04. A motor (12) is connected to X05 and X06.

The diagram also includes a detailed view of the RS485 connection, showing the connection of RS485-A, RS485-B, and RS485-ground to the control unit terminals.

1 = Basic print

2 = Mode switch (option)

3 = Moisture sensor (option)

4 = USB connection

5 = USB stick for updating software
(not supplied with device)

6 = Service connection

7 = Laptop with installed service tool
(not included)

8 = Touchscreen on the device

9 = Valve motor bypass valve

10 = Air temperature sensor

11 = Exhaust fan*

12 = Internal preheater incl. maximum protection

13 = Supply fan*

14 = Mains supply 230V 50Hz

15 = Air control (option)

16 = Co2 sensor eBus (option)

17 = Heater eBus (option)

18 = Zone valve demand-controlled ventilation 2.0
(option)

19 = Plus print (option)

20 = Connection to ModBus system (optional)

21 = X12 is Jumper termination resistor (120 Ω) ModBus;
(remove if already in ModBus system
terminating resistor is installed). At ModBus
application, remove jumpers X121 & X122;
when using Bus the jumpers
Place X12, X121 & X122; when applicable
PCB UWA2-E remove jumper X07.

* Control cables of the fans can be exchanged without any problem;
the appliance itself determines the supply and exhaust fans when
switching on the mains power! When the device detects another fan
(for example when replacing a fan during service work), a "wizard"
will be started automatically; follow instructions on display for correct
connection of fan cables.

Basic print

X15 = InterneBus

X16 = 24V

X17 = eBus

X18 = 24V (max 5VA)

X19 = Signal Output

Plus print

X03 = 24V

X04 = InternalBus

X06 = ModBus

X08 = Contact input 1

X09 = Contact input 2

X10 = Relay output 1

X11 = Relay output 2

X12 = Analog input (0 tot 10 V)

X13 = Analog input (0 tot 10 V)

X14 = Analog output (0 of 10 V)

X15 = Analog output 2 (0 of 10V)

X16 = NTC 10K

X17 = LAN

Wire colour

C1 = brown

C2 = blue

C3 = green/white

C5 = white












C8 = grey

C10 = yellow

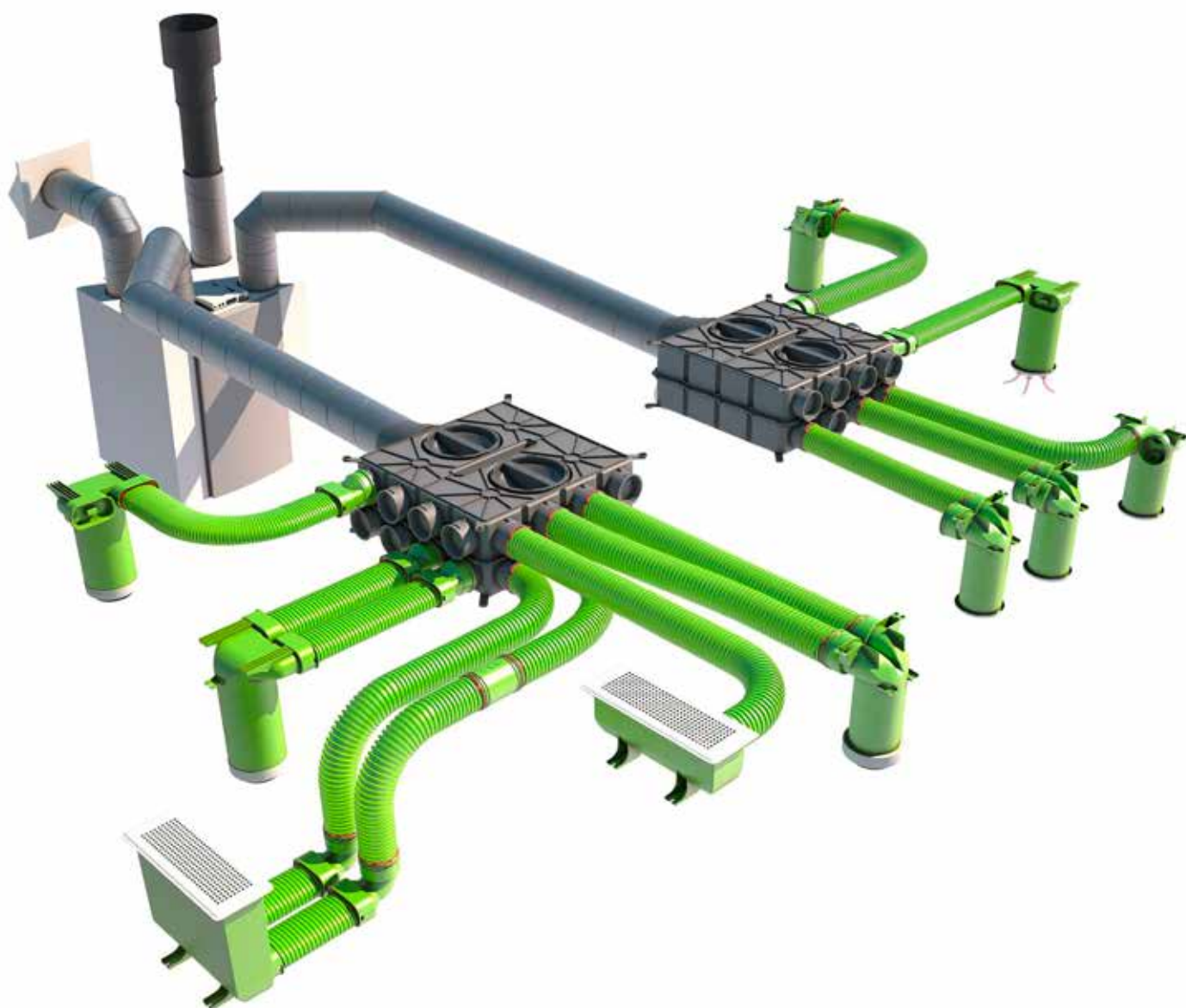
C11 = green

C17 = purple

Connections to Ubiflux Vigor heat recovery units

Ubiflux Vigor units					
	Ubiflux VIGOR W225 4/0 Connection diameter 125	Ubiflux VIGOR W325 4/0 Connection diameter 160	Ubiflux VIGOR W400 4/0 Connection diameter 180	Ubiflux VIGOR W450 4/0 Connection diameter 200	Ubiflux VIGOR W600 4/0 Connection diameter 200
					
Ventus roof ducts					
Ventus flat roof duct					
	with Aerfoam reducer 125/160 (order separately)	direct connection to Ventus 150/160	direct connection to Ventus 180/200 (with reducer)	direct connection to Ventus 180/200	direct connection to Ventus 180/200
Ventus pitched roof duct					
	with Aerfoam reducer 125/160 (order separately)	direct connection to Ventus 150/160	direct connection to Ventus 180/200 (with reducer)	direct connection to Ventus 180/200	direct connection to Ventus 180/200
Facade inlet hoods					
Facade inlet hood - black stainless steel					
	Ø125	Ø160	Ø180	Ø200	Ø200
Facade inlet hood - black stainless steel					
	Ø125	Ø160	Ø180	Ø200	Ø200
Aerfoam insulated ducts					
Aerfoam					
	Ø125	Ø160	Ø180	Ø200	Ø200
Acoustic attenuators					
Acoustic attenuators					
	Ø127/1000mm	Ø160/1000mm	Ø180/1000mm	Ø200/1500mm	Ø200/1500mm

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ENERGY



VENTILATION



BUILDING

Product advice

T. +44 (0)1604 433000 E. sales@ubbink.co.uk

Do you still have questions or are you looking for a solution for a specific application?

Our experts will be happy to think along with you, contact them from Monday (09:00 to 17:00) to Friday (08.00 to 15.00)



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