

UBIFLUX VIGOR

W225 MVHR Unit



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Features and Benefits

- Extremely compact and energy-efficient unit with very high thermal efficiency
- Most accurate constant-flow 2.0 = guaranteed equal supply and exhaust
- Display TFT touch screen with clear menu structure, including handy wizards for installation and maintenance
- Practical maintenance and minimum service parts
- Including ball siphon

Compact and Flexible

The Ubiflux Vigor W225 is a compact and energy-efficient unit. It offers a wide range of versions, providing great design flexibility. The Ubiflux Vigor is available in both left- and right-hand configurations, with four top connectors. For additional connectivity, each unit can be equipped with an optional Plus board.



Technical specifications	
Ventilation capacity at 200Pa [m ³ /h]	50-225
Thermal efficiency	89% => 125m ³ /h
	87% => 275m ³ /h
	85% => 225m ³ /h
Channel connection	4x ø125
Max power [W]	2x 42
Dimensions [mm]	650 x 600 x 455
Filter class	G4 ISO Coarse 60%
Constant-flow	Vane-Anemometer (highly accurate)
Condensation drain [mm]	ø32
SPI	0,17 Wh/m ³ /h
Weight [kg]	29
Frost protection	Intelligent frost control with pre-heater



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Modern communication			
		Basis	Plus
1x RJ12-connector	control via 4-position switch; RF receiver connection	x	x
1x E-bus	clock module connection, zone ventilation, Ubiflux Home (app), CO2 sensor or additional pre- or post-heater	x	x
1x 24v signal output	programming of an error and filter signal	x	x
1x 24v food	CO2 sensor connection (up to 4 E-bus)	x	x
1x print connection	moisture sensor connection	x	x
1x Modbus/Brinkbus	Easy connection to building management system; plus-print connection; cascade	x	x
1x (W)LAN	direct (wireless) connection Ubiflux Home environment (app)		x
2x analogue input 0-10v	connection of external sensors (CO2, RH, VOC, I/O module)		x
2x contact input	programmable input closed or open contact (9 pre-programmed action options)		x
2x relay output 0-24v	connection for ground heat exchanger; relay 2 can also be activated at contact input		x
2x analogue output 0-10v	connection for ground heat exchanger		x
1x 10K NTC resistance	Outdoor temperature sensor connection necessary for ground heat exchanger		x

Reduction Factor

In determining the E-level, heat losses from ventilation are adjusted using a reduction factor. To minimise these ventilation losses, a demand-controlled ventilation system can be employed. This system regulates airflow based on the actual need for ventilation, which can be controlled by monitoring factors such as the presence of people, humidity levels, or CO₂ concentrations.

Reduction factor			
Type of detection in dry room	Type of supply control in dry rooms	Reduction factor	Ubbink system
CO ² room: one or more sensors in each dry room	2 (day/night) or more zones	0.49	Kit 0121178
CO ² semi-local: one or more sensors in the main living spaces and in the main bedroom	2 (day/night) or more zones	0.53	Kit 0888342
CO ² room: one or more sensors in each dry room	Central	0.61	Kit 0121179
CO ² semi-local: one or more sensors in the main living space and the main bedroom	Central	0.87	Kit 0121180



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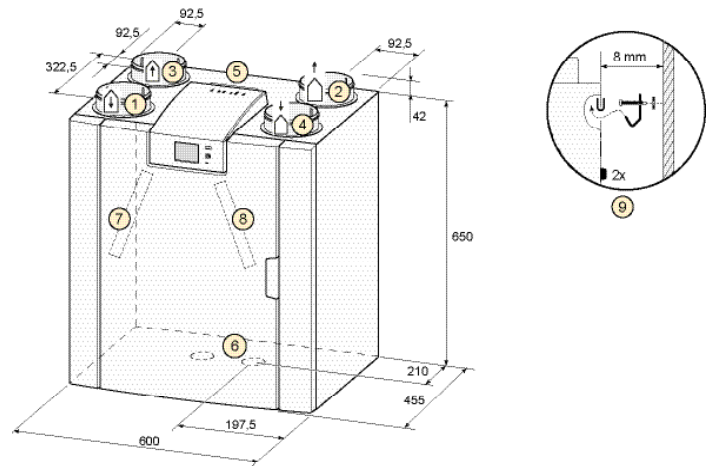


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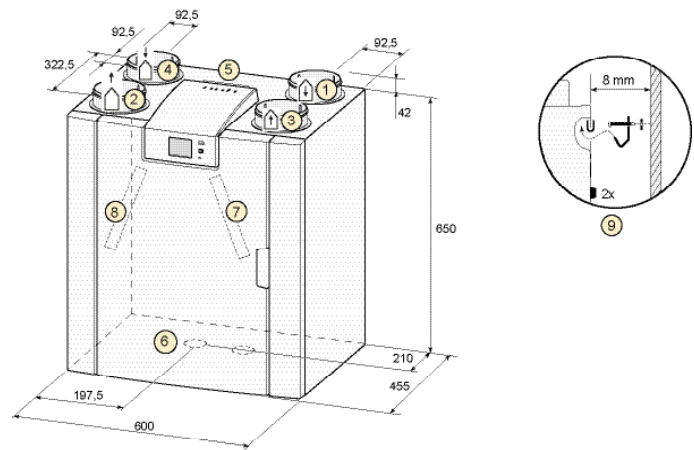
Connections

The Ubiflux Vigor W225 is available in either a left-hand or right-hand version with the left-hand version, the "warm" connections (from home 3 and to home 1) are on the left side of the unit, and the siphon is installed in the right-hand opening beneath the appliance. On a right-hand version, the "warm" connections (1 & 3) are on the right side of the unit.

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



Left-hand version 4/0



Right-hand version 4/0

All sizes in millimetres. Diameter all drill rings 125mm.



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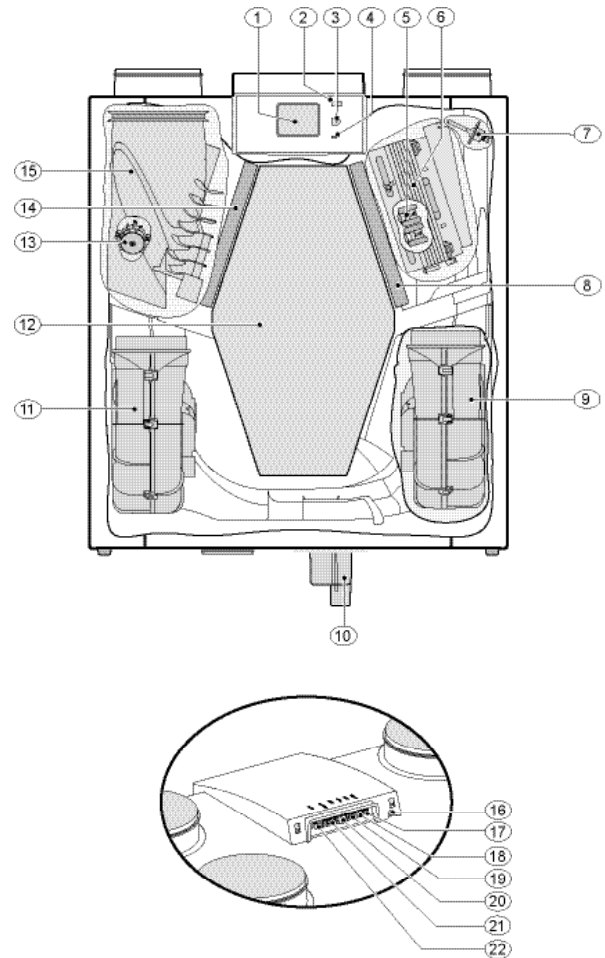


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Components

The unit shown below is a left-hand version; on the right-hand version, the pre-heater bypass valve and siphon connection are mirrored.

1	Touchscreen
2	USB connector (x13)
3	Service connection
4	Indication LED
5	Maximum pre-heater protection
6	Pre-heater
7	Temperature sensor
8	Inlet filter
9	Extractor fan
10	Siphon connection
11	Supply fan
12	Heat exchanger
13	Motor bypass valve
14	Drain filter
15	Bypass valve
16	Mains cable 230 volts
17	Relay output (x19)
18	24-volt connection (x16)
19	E-bus connection (x17)
20	24-volt connection (x16)
21	Modbus/bus connection (x15)
22	Position switch connection (x14)



Ecodesign	
Average climate zone	
Manual	A
Clock control	A
Central control with 1 sensor	A+
Local control with or more sensors combined with min. 2-zone flow control	A+



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Sound power							
Ventilation capacity [m³/h]		50	100	100	150	150	225
Sound power level Lw (A)	Static pressure [Pa]	25	25	50	50	100	100
	Cabinet radiation [dB(A)]	28	31	33.5	38.5	40.5	45.5
	Channel "from dwelling" [dB(A)]	<30	<34.5	<36.5	44	43	47.5
	Channel "to dwelling" [dB(A)]	43.5	48.5	50.5	55	57.5	62.5

In practice, measurement tolerances may cause the value to deviate by 1dB(A).

Fan chart

