

# UBIFLUX VIGOR

## W400 MVHR Unit

### 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 balsifon

### Compact and flexible

The Ubiflux Vigor W400 is extremely compact and energy-efficient. The wide variety of versions offers plenty of design flexibility. The Ubiflux Vigor is available as a left or right-hand version with four top connections or 2 top and 2 bottom connections. For even more connection options, each unit has an optional



### Technical specifications

Ventilation capacity at 200Pa [m³/h]	50-400
Thermal efficiency	87% => 297m³/h
	85% => 401m³/h
Channel connection	4x ø180
Max power [W]	2x 77
Dimensions [mm]	750 x 650 x 560
Filter class	G4 ISO Coarse 60%
Constant-flow	Vane-Anemometer (highly accurate)
Condensation drain [mm]	ø32
SPI	0,17 W/m³/h
Weight [kg]	37
Frost protection	Intelligent frost control with pre-heater



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Build smart.

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 filtersignal	x	x
1x 24v power supply	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 resistor	Outdoor temperature sensor connection necessary for ground heat exchanger		x

### Reduction factor

In calculating 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 implemented. This system regulates airflow based on the actual ventilation requirements, often by sensing factors such as occupancy, humidity, or CO<sup>2</sup> levels.

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





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## W400 wandunit

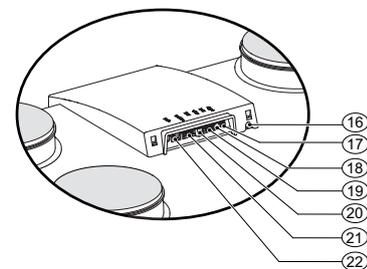
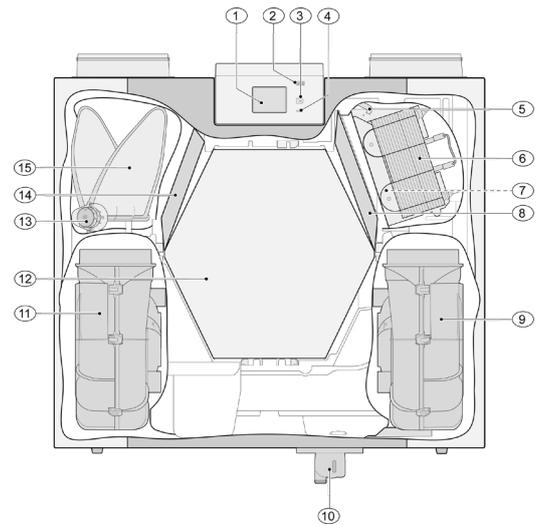


Build smart.

### Onderdelen

De hieronder afgebeelde unit is een linker-uitvoering; bij de rechter-uitvoering zijn de aansluiting van de voorverwarmer, bypassklep en de sifonaansluiting gespiegeld gemonteerd.

1	Touchscreen
2	USB-aansluiting (x13)
3	Service aansluiting
4	Indicatie led
5	Maximaalbeveiliging voorverwarmer
6	Voorverwarmer
7	Temperatuursensor
8	Toevoerfilter
9	Afvoerventilator
10	Sifonaansluiting
11	Toevoerventilator
12	Warmtewisselaar
13	Motor bypassklep
14	Afvoerfilter
15	Bypassklep
16	Netsnoer 230 volt
17	Relais uitgang (x19)
18	24 volt aansluiting (x16)
19	E-bus aansluiting (x17)
20	24 volt aansluiting (x16)
21	Modbus/bus aansluiting (x15)
22	Aansluiting standenschakelaar (x14)



### Ecodesign

Klimaatzone gemiddeld

Handbediend	A
Klokregeling	A
Centrale regeling met 1 sensor	A+
Lokale regeling met of meer sensoren in combinatie met min. 2-zone debietregeling	A+



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## W400 wandunit



ubbink

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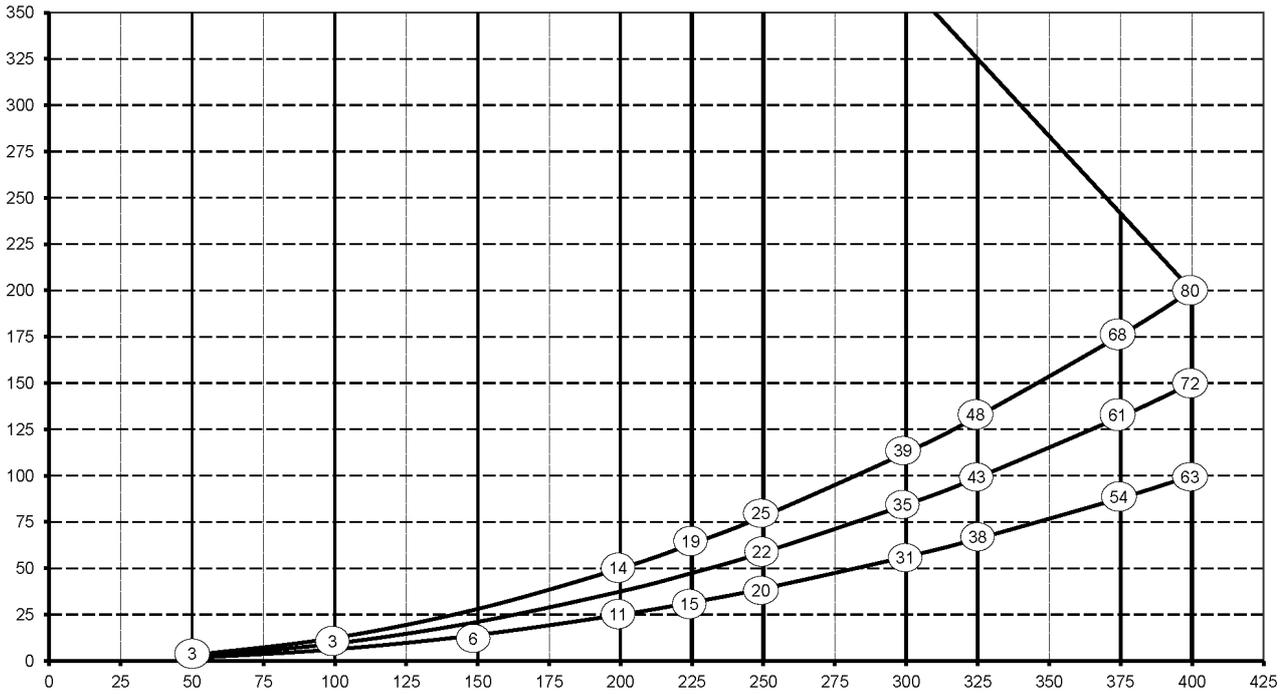
Geluidsvermogen													
	Q [m³/h]	P [Pa]	f [Hz]: Filter	63	125	250	500	1000	2000	4000	8000	Totaal	Totaal A- gewogen
				L <sub>w</sub> [dB]									
Inclusief eindcorrectie	<b>Naar woning</b>												
	100	25	ISO Coarse 60%	63.2	50.8	47.5	42.9	36.4	24.8	15.7	18.2	63.6	44.5
	150	25	ISO Coarse 60%	65.8	58.8	51.3	47.8	42	33.5	21.9	20.3	66.8	50
	150	50	ISO Coarse 60%	61.9	55.1	52.8	49.7	43.9	36.5	25.1	25.5	63.4	50.5
	200	100	ISO Coarse 60%	65.1	59.7	58.7	55.6	50.5	45	35.9	23.6	67.3	57
	250	50	ISO Coarse 60%	65.6	58	61.5	56.5	51.6	47.2	38.7	25	68	58
	250	100	ISO Coarse 60%	66.5	60.2	66.2	57.4	53.1	48.6	40.3	27.5	70.2	60.5
	350	100	ISO Coarse 60%	69	65	74.8	62.5	58.1	55.6	49.2	38.1	76.5	69.5
	400	150	ISO Coarse 60%	71.7	67.6	75.5	71.7	61.2	59.1	53.4	43.2	78.6	72
	<b>Uit woning</b>												
	100	25	ISO Coarse 60%	53.8	48	41.5	29.2	16.9	10.6	11.2	17	55	36
	150	25	ISO Coarse 60%	61	56	48.6	39.1	24	18.8	10.7	18	62.4	43.5
	150	50	ISO Coarse 60%	59.3	55.6	48.5	38.7	25.4	21.3	11.7	17.4	61.1	43.5
	200	100	ISO Coarse 60%	59.7	57.1	51.2	39	31.1	29.2	18.1	16.6	62	45
	250	50	ISO Coarse 60%	55.4	56.6	55	38.8	31.4	30.9	19.4	16.5	60.5	46.5
	250	100	ISO Coarse 60%	55.4	57.6	55.1	40.6	33.3	32.6	21.8	16.7	61	48
	350	100	ISO Coarse 60%	61.3	60	56.4	44.4	38.1	39	29.1	18.5	64.5	51
	400	150	ISO Coarse 60%	62.9	65.3	62.6	57.8	41.3	42.5	33.1	21.1	68.9	58
	<b>Naar buiten</b>												
400	150	ISO Coarse 60%	71.8	68	74.4	67.8	61	58.6	52.5	42.7	77.6	70.5	
<b>Van buiten</b>													
400	150	ISO Coarse 60%	62.7	64.3	62.2	54.3	43.7	42.7	32.9	22.5	68.1	57	
Kastafstraling	<b>Kastafstraling</b>												
	100	25	ISO Coarse 60%	32.5	33.1	35	26.7	18.9	12.9	3.1	6.5	38.8	29
	150	25	ISO Coarse 60%	38.5	42.7	41.5	36	27.1	21.2	10.9	14.4	46.5	37
	150	50	ISO Coarse 60%	43.6	41	39.7	32.8	26.6	23.5	10.8	7.4	46.8	35.5
	200	100	ISO Coarse 60%	44.5	45.2	47	38.7	32.9	31.3	21.8	14.1	50.9	41.5
	250	50	ISO Coarse 60%	42	42.4	50.9	38.8	33.1	32.8	25.5	29.3	52.3	43.5
	250	100	ISO Coarse 60%	43.4	43.9	56.6	40.6	35	34.3	24.9	20.8	57.2	49
	300	100	ISO Coarse 60%	44.6	46.4	54.4	42.6	37.4	37.7	29.7	29.8	55.8	48
	350	100	ISO Coarse 60%	46.5	48.2	57.6	45.8	39.8	41.1	33	27.3	58.7	52
400	150	ISO Coarse 60%	47.2	52.1	62.8	54.3	43.2	44.5	37.4	31.9	63.9	57.5	



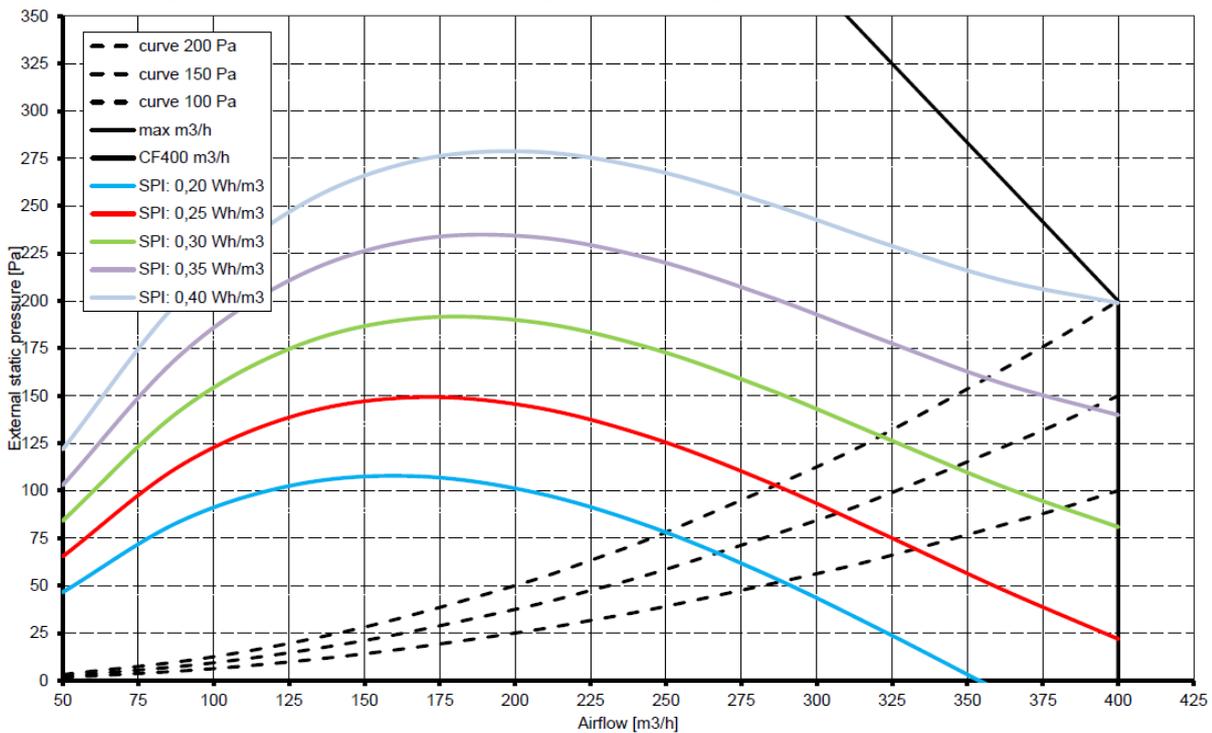
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W400 wandunit

## Ventilatorgrafiek



Let op: de in de grafiek omcirkelde waarden zijn het gebruikte vermogen (Watt per ventilator)



Let op: de getoonde waarden zijn SPI waarden 2x ventilator 77 Watt.

