

# MYVALLOX 245 CFI

Constant flow feature  
for larger premises



**VALLOX**  
HOME *of* FRESH AIR

# MyVALLOX

## 245 CFi

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## 245 CFi VKL

*The MyVallox 245 CFi ventilation unit suits large detached houses and business premises (schools, day-care centres, offices) with a maximum floor area of 400 m<sup>2</sup>. The energy-efficient ventilation unit (energy class A+) recovers heat efficiently, generating savings on the property's primary heating system.*

The MyVallox 245 CFi ventilation unit is a perfect heat recovery solution for large detached houses and business premises (schools, day-care centres, offices). With a maximum air flow of 226 litres per second, the unit's output is sufficient for a home or premises of up to 430 m<sup>2</sup>. MyVallox 245 CFi is stingy with energy. The specific fan power of the unit is only 0.7 kWh/m<sup>3</sup>/s, which means that it can replace air with very little energy.

This A+ ventilation unit recovers heat efficiently with a peak annual efficiency of 83%. When the ventilation unit recovers heat from extract air and transfers it to filtered supply air, savings are generated on the property's

primary heating system. The coolness of summer nights can be utilised, as the unit includes automatic heat recovery bypass with cold recovery. The partial heat recovery bypass keeps the supply air temperature even and pleasant in all seasons.

### On-demand ventilation is energy-efficient

The MyVallox 245 CFi ventilation unit features an integrated carbon dioxide and humidity sensor that measures the quality of indoor air. Whether the place is packed with people or it is laundry day, the ventilation unit boosts ventilation automatically when the humidity or carbon dioxide content of indoor air increases. The ventilation unit

reduces the output when the humidity or carbon dioxide levels have returned to normal. This ensures that ventilation is never boosted unnecessarily. The optional VOC (Volatile Organic Compounds) sensor reacts to the VOC level of indoor air.

Whenever the place is empty, ventilation can be reduced to very low, resulting in significantly lower energy consumption. The ventilation unit can be set to the Away mode from the control panel, through the free cloud service or, for example, with a separate At Home/Away switch. The unit also features a week clock function that switches the unit to the Away mode automatically during hours when the premises are typically empty.





## Free cloud service and compatibility with building automation systems

MyVallox 245 CFi comes with a MyVallox Control panel. The ventilation unit can also be controlled through the home network or the free cloud service. The unit can be controlled on a mobile phone, for example. Furthermore, it can be connected to a building automation system with a Modbus RTU bus to provide statistics for those managing the property. Separate switches can also be connected to the ventilation unit. For example, a fireplace switch or an At Home/Away switch makes controlling the ventilation unit even easier.

A unit connected to the free MyVallox Cloud service is updated automatically. The service also provides statistics on the quality of indoor air.

## Constant flow feature for a balanced pressure ratio

MyVallox 245 CFi has a new constant flow feature that increases living comfort and makes the unit's setup easier. Thanks to its constant flow fans, the unit can compensate for differences in pressure and keep the air flows in balance in windy locations and tall buildings, during HR cell defrosting, and regardless of the heat recovery bypass status. The constant flow feature also compensates for separate extractions.

The new constant flow function makes the installer's job easier because it allows litre-based air flow adjustment directly from the control panel. In larger properties with multiple similar spaces requiring ventilation, the setup settings can be saved to a computer and used for faster setup in similar locations.

## VKL model also available

MyVallox 245 CFi is also available with a post-heating liquid radiator (VKL model). The post-heating liquid radiator helps heat the supply air when the heat recovery system does not suffice.

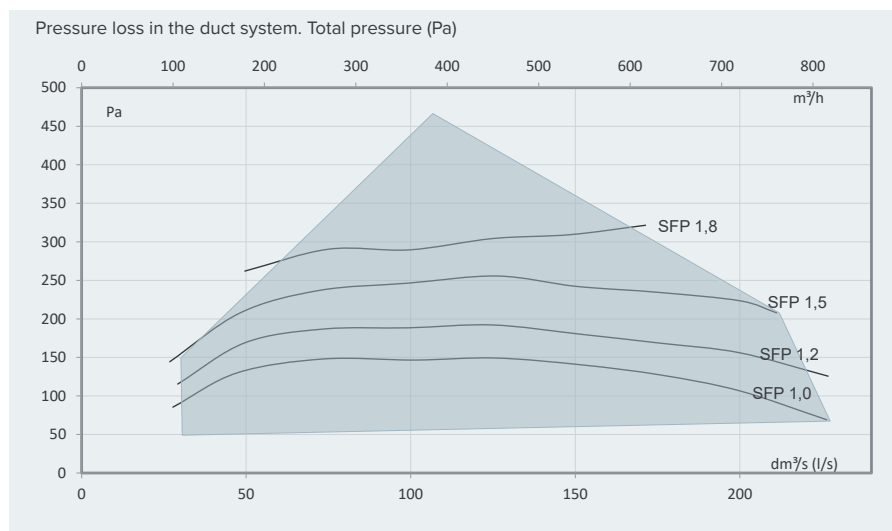
### TECHNICAL SPECIFICATIONS

Product title	MyVallox 245 CFi	MyVallox 245 CFi VKL	MyVallox 245 CFi & MyVallox 245 CFi VKL	
Product number	RA12 4128162 LA12 4128163	RA12 4128168 LA12 4128169	Electrical connection	230 V, 50 Hz, 15.2 A (power plug)
HVAC code	RA12 7912251 LA12 7912252	RA12 7912253 LA12 7912254	Enclosure protection class	IP 34
Air volumes	Supply air 226 dm <sup>3</sup> /s, 100 Pa Extract air 226 dm <sup>3</sup> /s, 100 Pa	Supply air 226 dm <sup>3</sup> /s, 100 Pa Extract air 227 dm <sup>3</sup> /s, 100 Pa	Fans	Supply air 0.17 kW 1.25 A EC Extract air 0.17 kW 1.25 A EC
Efficiencies*	Annual efficiency 83% Supply air efficiency 87% Specific Fan Power (SFP) 0.63 kW/m <sup>3</sup> /s (160 dm <sup>3</sup> /s)	83% 87% 0.68 kW/m <sup>3</sup> /s (158 dm <sup>3</sup> /s)	Filters	Supply air ISO Coarse > 75% + ISO ePM <sub>1</sub> ≥ 60% Extract air ISO Coarse > 75%
Post-heating	Electrical resistor, 1500 W	Liquid radiator	Specific energy consumption (SEC)	cold climate A+ average climate A+
Pre-heating	—	—	Heat recovery bypass	Automatic
Additional heating	Electrical resistor, 1500 W	Electrical resistor, 3000 W	Dimensions (w x h x d)	1038 x 1241 x 773 mm
Weight	181 kg	187 kg		

\*Working point defined in the Ecodesign Directive (2009/125/EC), Southern Finland, Helsinki-Vantaa TRY year 2020.

## MyVallox 245 CFi

### Fan's supply and extract air volumes and specific electricity consumption



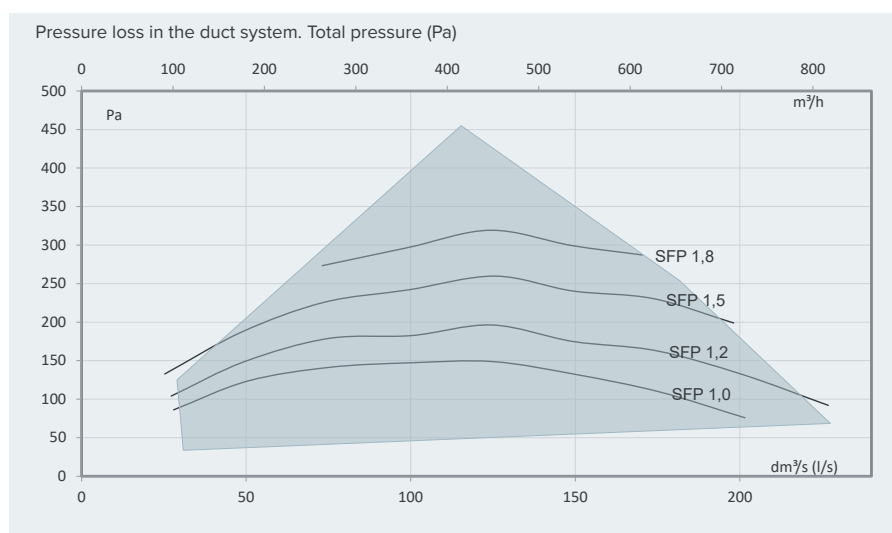
SFP rate (Specific Fan Power) recommended value  $<1.8$  (kW/ m³/s). When a lower total pressure is used, also the SFP of the speed is lowered.

#### INPUT POWER OF THE FAN

	l/s	m³/h	Pa	W
Min	30	107	102	35
Mid	125	450	192	149
Max	211	760	208	316

## MyVallox 245 CFi VKL

### Fan's supply and extract air volumes and specific electricity consumption



SFP rate (Specific Fan Power) recommended value  $<1.8$  (kW/ m³/s). When a lower total pressure is used, also the SFP of the speed is lowered.

#### INPUT POWER OF THE FAN

	l/s	m³/h	Pa	W
Min	30	107	82	25
Mid	125	450	169	142
Max	181	651	254	313

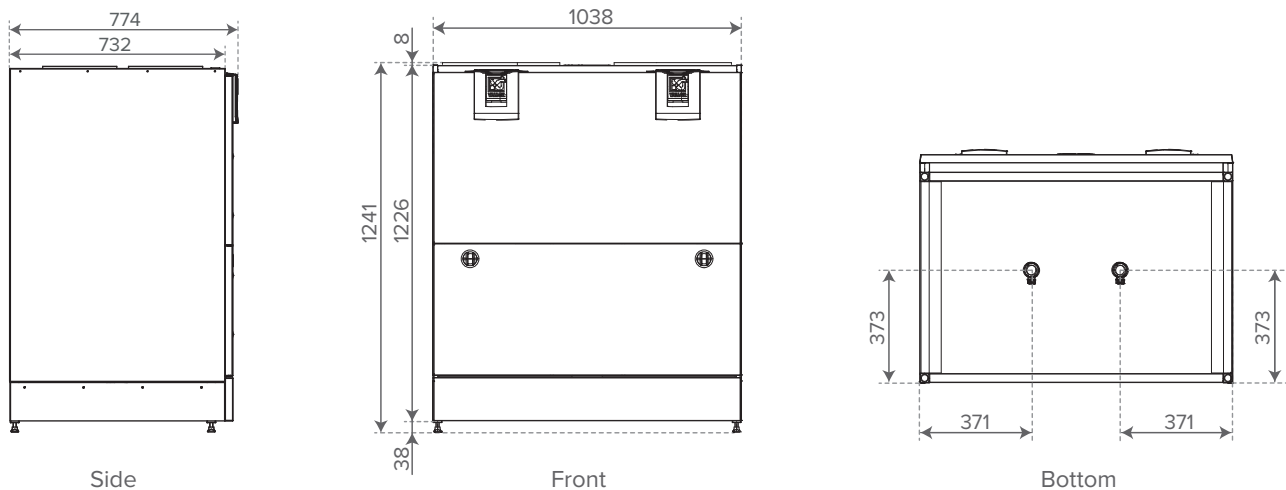
## MyVallox 245 CFi & MyVallox 245 CFi VKL

### SOUND VALUES

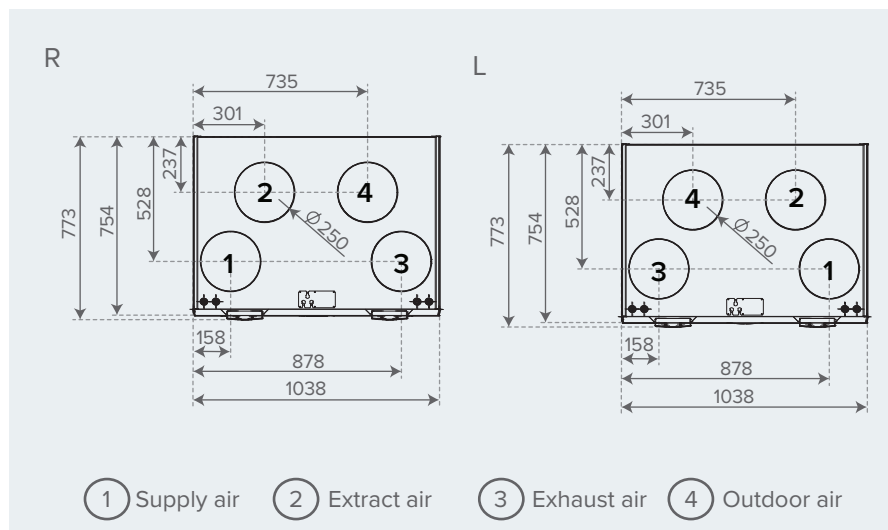
		Sound power level in the supply air ducts by octave band $L_w$ dB									Sound power level in the extract air ducts by octave band $L_w$ dB								
Air flow l/s		30	50	75	100	125	150	175	200	225	30	50	75	100	125	150	175	200	225
Medium frequency of the octave band Hz	63	56	60	65	67	70	74	75	78	79	45	51	53	57	61	64	67	69	70
	125	46	51	60	69	74	74	76	77	76	37	39	51	57	54	56	58	60	60
	250	36	46	52	57	67	72	74	76	77	35	36	43	47	53	63	61	65	66
	500	30	39	49	53	58	61	65	68	68	20	25	31	35	39	43	46	48	49
	1000	23	35	43	49	54	58	62	65	65	11	18	27	33	37	41	44	49	50
	2000	19	30	40	47	52	56	60	63	63	13	14	20	27	32	36	40	43	44
	4000	17	18	26	35	42	47	51	55	56	17	16	17	18	22	26	31	34	36
		8000	22	22	22	25	32	38	43	47	22	22	22	22	22	22	23	25	26
$L_{wA}$ dB(A)		57	60	66	72	76	78	80	82	83	46	52	56	60	62	67	69	71	72
$L_{wA}$ dB(A)		35	43	51	57	63	67	70	72	73	30	32	39	44	47	55	54	58	59
		Sound pressure level coming through the envelope of the unit in the room in which it is installed (10m <sup>2</sup> sound absorption)																	
Air flow l/s		30	50	75	100	125	150	175	200	225									
$L_{pA}$ dB (A)		23	23	28	34	39	42	45	49	48									

You can calculate the sound values for each operating point with the Vallox MySelecta software.

### MyVallox 245 CFi & MyVallox 245 CFi VKL | Dimensions



### MyVallox 245 CFi & MyVallox 245 CFi VKL | Dimensions and duct outlets



## ACCESSORIES

The delivery of a MyVallox 245 CFi ventilation unit includes a MyVallox Control panel and a Vallox Silent Klick siphon.

The following accessories are available for all MyVallox units: additional control panels MyVallox Control and MyVallox Touch, and external MyVallox carbon dioxide sensors, MyVallox humidity sensors and MyVallox VOC sensors.

Original Vallox filters are available for MyVallox 245 CFi units. Filter package no. 29 includes all the filters needed for one filter replacement.

MyVallox 245 CFi & MyVallox 245 CFi VKL	Product No.	HVAC number
MyVallox Control additional control panel (included in delivery)	949033	7911483
MyVallox Touch additional control panel	949090	7912155
MyVallox humidity sensor	946149	7911480
MyVallox carbon dioxide sensor	949111	7911481
MyVallox VOC sensor	949112	7912140
Vallox Silent Klick siphon (included in delivery)	3494701	7911603
Filter package 29	3357100	7911488

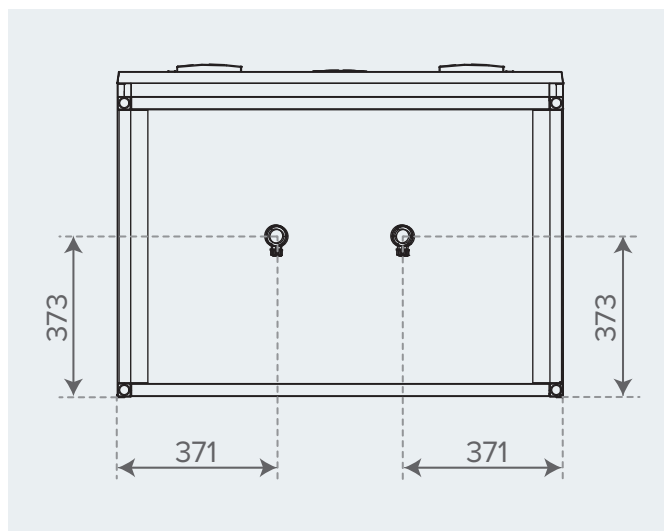
## MOUNTING ON THE FLOOR

MyVallox 245 CFi is always mounted on the floor. Adjust the adjusting legs so that the unit is level.

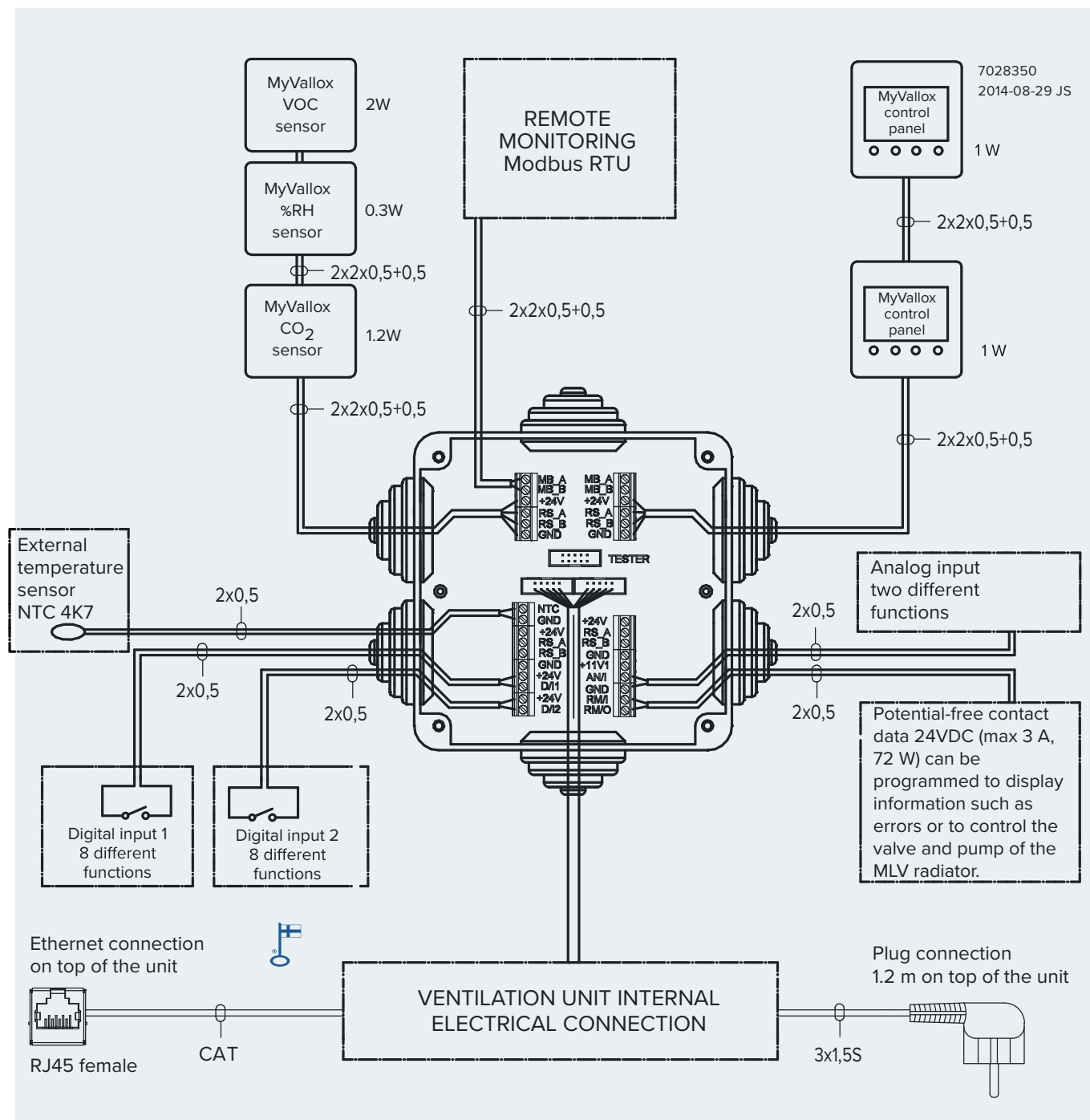
When installing the unit, reserve a space of at least 800 mm in front of the unit for servicing purposes.

## REMOVAL OF CONDENSING WATER

Dimensioning figure of the Vallox Silent Klick siphon



## EXTERNAL ELECTRICAL CONNECTION



### POWER SUPPLY

Maximum	≤6W
MyVallox Control	1 W
MyVallox Touch	0.5 W
%RH sensor	0.3 W
CO <sub>2</sub> sensor	1.2 W
VOC sensor	2 W
Voltage	24 VDC

MB_A	External Modbus A signal
MB_B	External Modbus B signal
+24V	+24V voltage (DC)
GND	Digital and analog ground potential
RS_A	Local hardware Modbus A signal
RS_B	Local hardware Modbus B signal
NTC	External temperature sensor connector

D/I1	Digital input 1
D/I2	Digital input 2
11V1	11.1 V operating voltage
AN/I	Analog input 0–10 VDC
RM/I	24V relay input
RM/O	24V relay output

**VALLOX**

[www.vallox.com](http://www.vallox.com)

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