TECHNICAL BROCHURE

MYVALLOX 51 CFi
MYVALLOX 51K CFi

Efficient use of space

VALLOX

HOME *of* FRESH AIR

MyVALLOX 51 CFi

MyVALLOX 51K CFi

MyVallox 51 CFi and its K model are a real space saver for small homes. The ventilation unit fits in, for example, a kitchen cabinet or above the toilet seat in the bathroom. The MyVallox 51 CFi unit's air volume is ideal for an apartment with a maximum floor area of 75 m².

MyVallox 51 CFi suits bathrooms that meet the accessibility requirements set for smaller homes

A bathroom meets the accessibility requirements if a person using a wheelchair or a walker can use the room independently or assisted. In other words, the bathroom must be roomy enough with a minimum diameter of 1.3 metres of clear floor area. This so-called accessibility circle must be free of any fixtures from floor to a height of two metres.

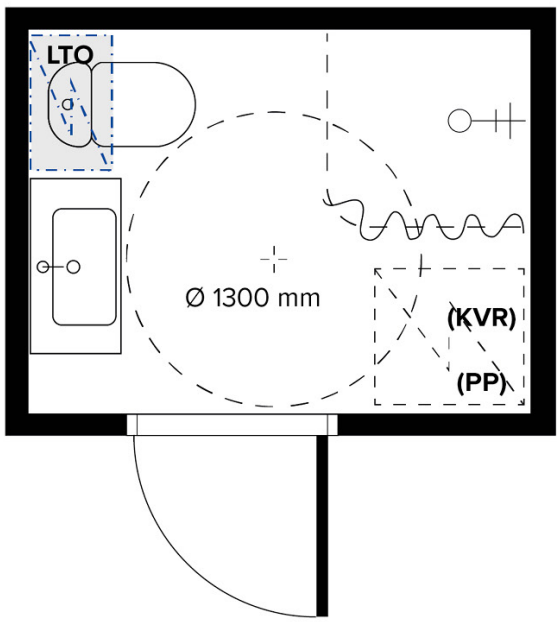
In apartment buildings, it is common to install the ventilation unit above a wash tower. A washing machine is not considered equal to a fixture, but a ventilation unit is since its fixation penetrates the room's waterproofing. Due to the accessibility circle, it is not always possible to install the ventilation unit above a wash tower.

The MyVallox 51 CFi ventilation unit is only 349 mm deep, so it can be installed, for example, above the toilet seat without obstructing the area that should be kept clear of fixtures.

A ventilation unit and cooker hood combo can be incorporated into the kitchen cabinets

MyVallox 51K CFi is installed in the kitchen, and it combines ventilation and removal of cooking smells. When the ventilation unit is installed in the kitchen, it saves space in smaller apartments. Space no longer needs to be reserved for the ventilation unit in, for example, the bathroom, where space may be very limited.

Studies show that the ability of the residents to adjust the efficiency of ventilation based on their individual lifestyle enhances their comfort of living. The kitchen solution enables apartment-specific ventilation, even in very small apartments. When the ventilation unit is integrated with the kitchen cabinet, similarly to domestic appliances, it is elegantly out of sight, yet easy to use and service. There is plenty of space for carrying out maintenance, such as replacing the filter, in front of the kitchen cabinets.



Quick to install and set up

MyVallox CFi ventilation units are easy to set up. The constant flow feature allows the air flows to be adjusted by litre directly from the control panel or by connecting the ventilation unit to a computer.

If the unit is set up on a computer, the setup settings can be saved to the computer and used later for the setup of ventilation units in similar locations. A PDF file summarising the settings can also be downloaded and attached to the measurement log.

The constant flow feature is integrated into the fan of the unit and no additional installation work on the duct system is needed. When the anemometer measuring the air flow is in the fan, there is no fear of blocked measuring tubes either.

Energy-efficient and modern ventilation unit

MyVallox 51 CFi has all the properties of a modern ventilation unit. With an indicative maximum floor area of 75 m^2, this unit is best suited for one- and two-bedroom apartments and for smaller three-bedroom apartments.

The unit's constant flow feature balances ventilation, keeping the air flow always at the preferred level. The integrated carbon dioxide and humidity sensor ensures that ventilation is boosted automatically where required.

The unit is rated in energy class A+. The extract air of the cooker hood passes through the heat recovery cell. Special attention has been paid to acoustic properties in the design of the unit that is intended for use in kitchens.

The metal structure makes Vallox 51K CFi a fire-safe ventilation solution for kitchen installations. The electric assembly can be removed as one piece, allowing for easy maintenance.

Vallox Captura cooker hood

The Vallox Captura cooker hood is only compatible with MyVallox 51K CFi ventilation units. The modern and minimalistic cooker hood has a low front panel that merges with the kitchen cabinet and has capacitive switches that have been marked with clear icons.

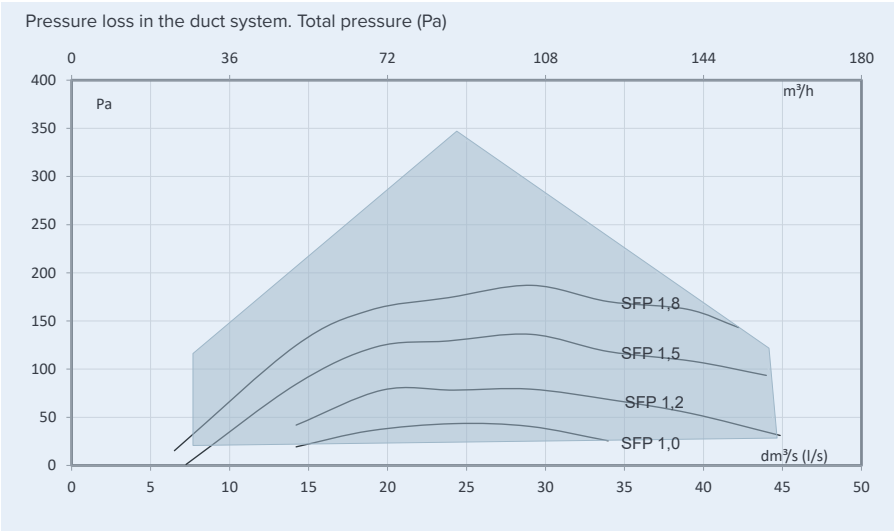
The smooth switch panel makes it easy to keep the cooker hood clean. The cooker hood has no glass surfaces or easily damaged mechanical parts. The cooker hood is equipped with a motorised flap. The Vallox Captura cooker hood has a standard width of 600 mm. The cooker hood is available in white and stainless steel.

TECHNICAL SPECIFICATIONS

Product title	MyVallox 51 CFi	MyVallox 51K CFi	MyVallox 51 CFi & MyVallox 51K CFi	
Product number	RA11 4128154 LA11 4128155	RA01 4128160 LA01 4128161	**Fans** Supply air Extract air	 0.035kW, 0.35A EC 0.035kW, 0.35A EC
HVAC code	RA11 7912247 LA11 7912248	RA01 7912249 LA01 7912250	**Post-heating** Electrical resistor, 900 W	**Pre-heating** –
Electrical connection	230 V, 50 Hz, 4.24 A power plug	230 V, 50 Hz, 4,24 A 2 x power plug	**Additional heating** –	**Enclosure protection class** IP 34
Dimensions (w x h x d)	598 x 668 x 349 mm	598 x 802 x 349 mm	**Air volumes** Supply air Extract air	 44 dm^3/s, 100 Pa 45 dm^3/s, 100 Pa
Weight	45 kg	51 kg	**Heat recovery bypass**	Automatic
			Efficiencies* Annual efficiency Supply air efficiency Specific Fan Power (SFP)	 81% 89% 1.04 kW/m^3/s (32 dm^3/s)
			Filters Supply air Extract air	 ISO Coarse > 75 % + ISO ePM_1 ≥ 50 % ISO Coarse > 75 %
			Specific energy consumption (SEC) in a cold climate in a temperate climate	 A+ A+

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

MyVallox 51 CFi & MyVallox 51K 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	7	27	73	16
Mid	24	87	145	39
Max	44	158	122	72

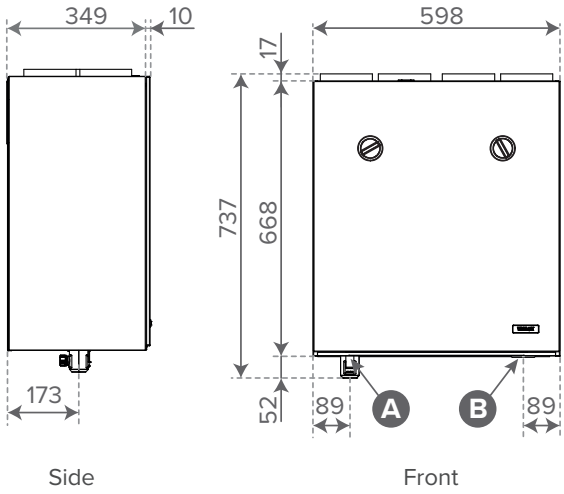
Sound Values

		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		8	15	20	25	30	35	40	45	8	15	20	25	30	35	40	45
Medium frequency of the octave band Hz	63	64	64	66	68	70	73	73	73	56	56	61	65	68	68	72	72
	125	55	55	59	62	66	66	67	67	47	47	51	54	56	58	60	60
	250	57	57	57	60	61	64	64	64	34	34	39	44	46	47	50	50
	500	47	47	52	56	59	63	64	64	35	35	39	42	46	49	54	54
	1000	41	41	47	51	54	58	63	63	25	25	30	34	37	40	44	44
	2000	32	32	38	43	46	50	52	52	14	14	17	20	24	28	33	33
	4000	24	24	32	38	43	47	48	48	17	17	17	17	17	19	24	24
	8000	22	22	24	29	35	41	43	43	22	22	22	22	22	22	22	22
L_W,dB		65	65	67	70	72	75	75	75	56	56	62	65	68	69	72	72
L_{WA}, dB(A)		51	51	54	57	60	63	66	66	37	37	41	44	48	50	53	53

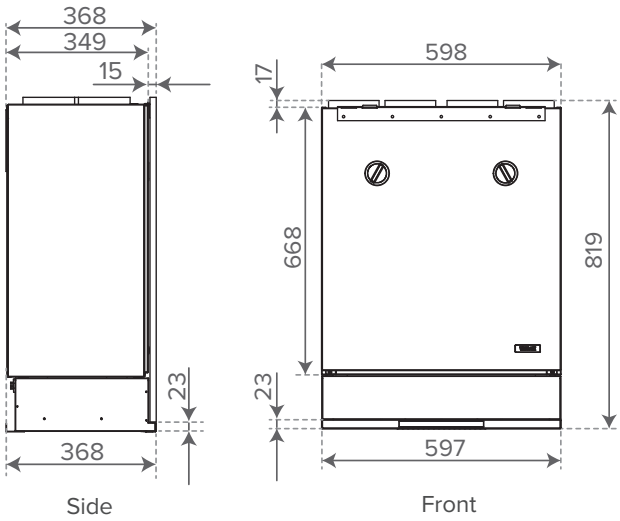
	Sound pressure level coming through the envelope of the unit in the room in which it is installed (10m² sound absorption)							
Air flow l/s	8	15	20	25	30	35	40	45
L_{pA}, dB (A)	25	25	29	32	34	38	40	40

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

MyVallox 51 CFi | Dimensions



MyVallox 51K CFi | Dimensions

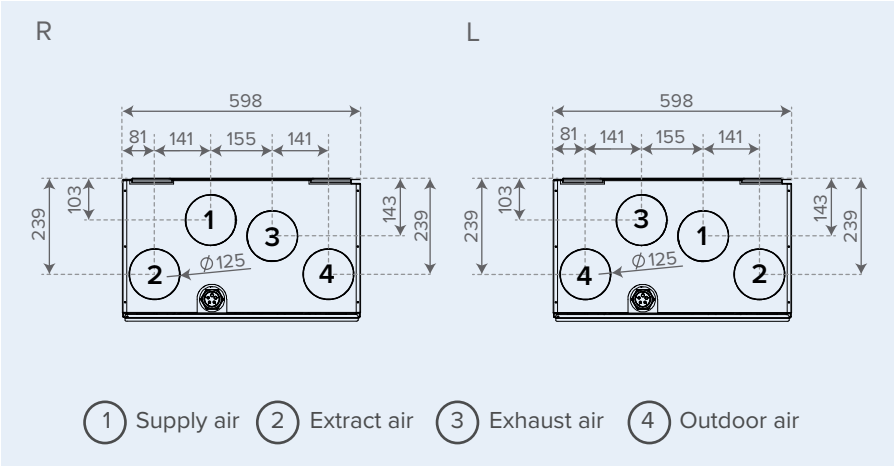


There are two condensing water discharge outlets at the bottom. The condensing water outlet or siphon is connected to a free, not plugged, discharge outlet.

A. Connection in a right-handed unit

B. Connection in a left-handed unit

MyVallox 51 CFi & MyVallox 51K CFi | Dimensions and duct outlets



ACCESSORIES

The delivery of a MyVallox 51 CFi ventilation unit includes a MyVallox Control panel, a Vallox SilentKlick siphon and a wall mounting plate. The delivery of a MyVallox 51K CFi ventilation unit includes a MyVallox SilentKlick siphon and a wall mounting plate.

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

Original Vallox filters are available for MyVallox 51 CFi and MyVallox 51K CFi. Filter package no. 32 includes all the filters needed for one filter replacement.

MyVallox 51 CFi & MyVallox 51K CFi	Product No.	HVAC number
MyVallox Control additional control panel	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
Ceiling mounting plate Vallox 51 R/L *	4114260	7912228
Filter package 32	4106181	7912139

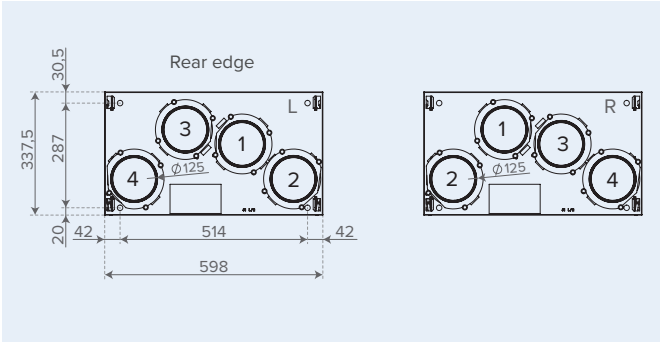
* Only available in a MyVallox 51 CFi unit.

Ceiling mounting plate

The ceiling mounting plate makes the installation of ventilation ducts easier, ensuring that the ducts are exactly in the correct places.

The ceiling mounting plate allows the installation of the ventilation ducts at an early stage during construction, even if the ventilation unit is not yet being installed. Each duct outlet in the ceiling mounting plate is located to match the ventilation unit, which makes the later installation of the unit convenient and easy.

Dimensions and duct outlets of the ceiling mounting plate



MOUNTING ON THE WALL

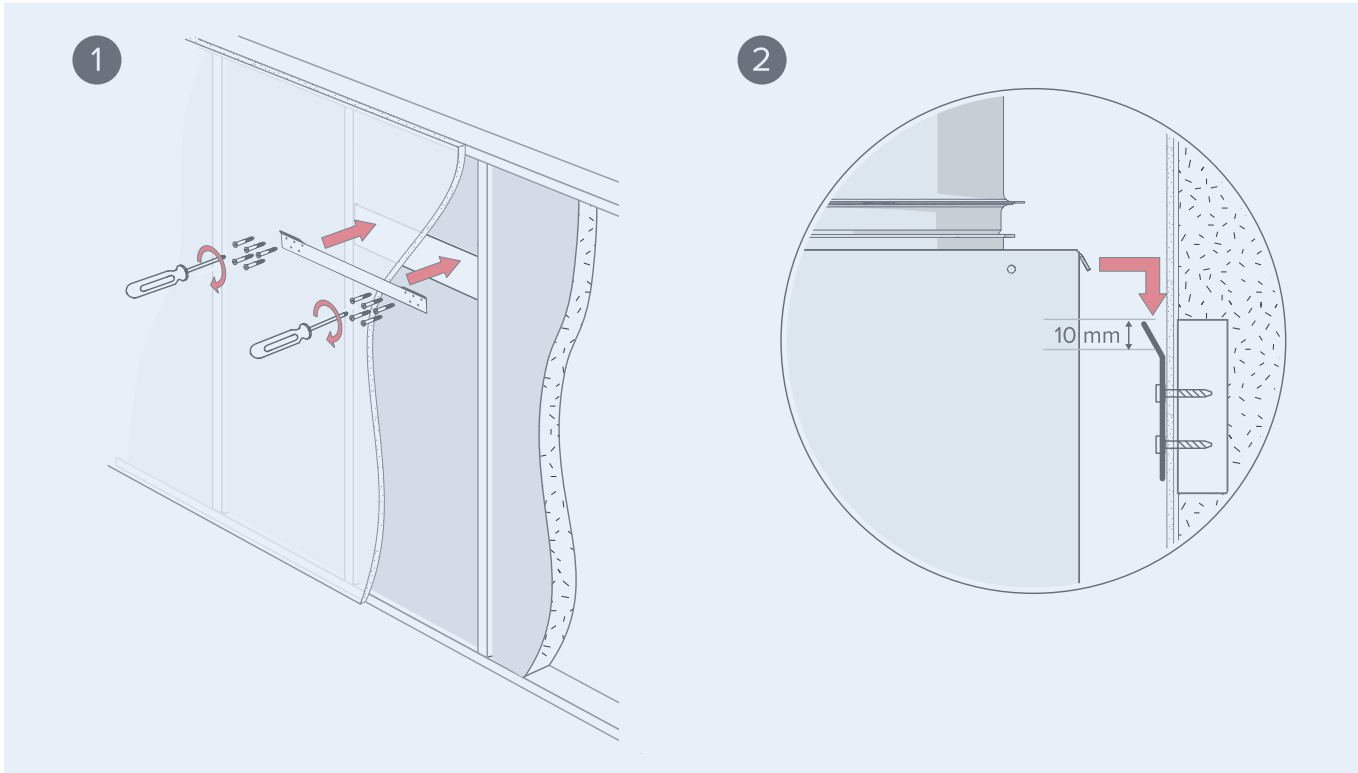
The minimum distance between the top of the unit and the finished ceiling surface is 30 mm. Please note that when using the wall bracket, the unit rises 10 mm higher than the final height.

Mount the ventilation unit on the wall with a mounting plate, as shown in the figures below. Make sure that the unit is horizontally level after mounting.

Avoid mounting the unit on a hollow, echoing partition wall or on a bedroom wall, or prevent the conduction of sound.

When installing the unit, reserve a space of at least 330 mm in front of the unit for servicing purposes.

The socket may be no further than 500 mm from the unit's right-hand top edge.

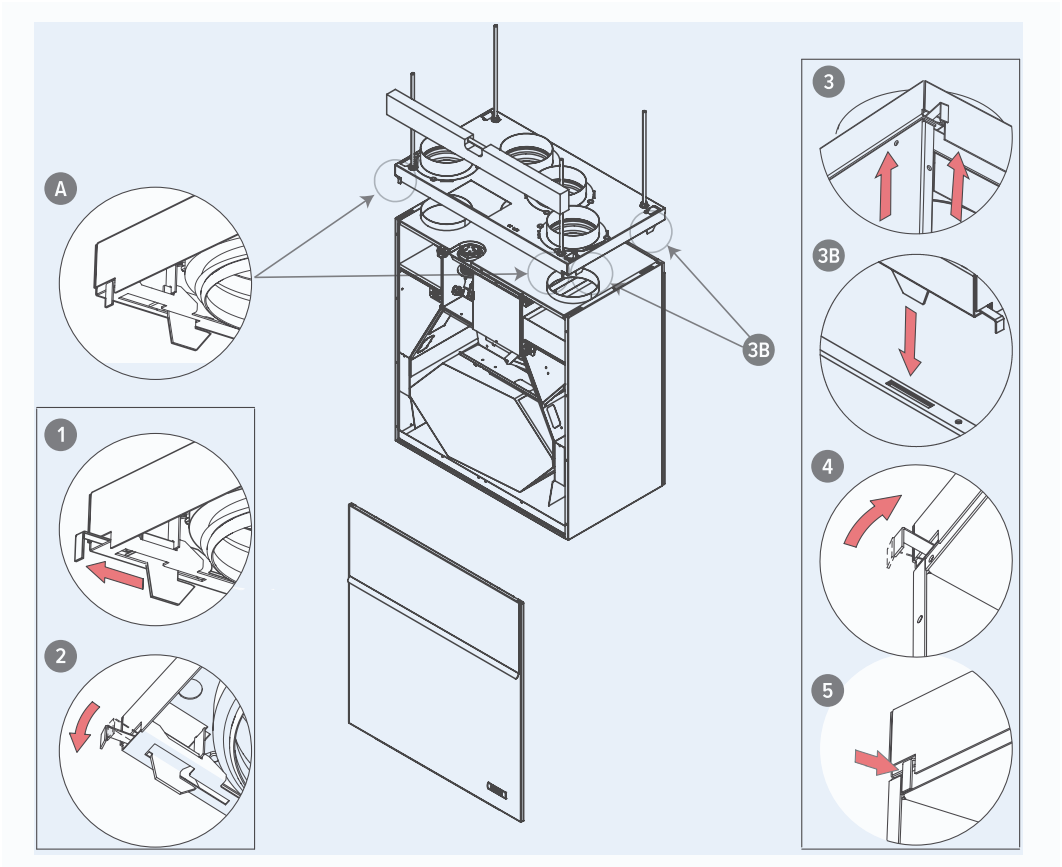


MOUNTING ON THE CEILING

Installing the ventilation unit to the ceiling mounting plate

MyVallox 51 CFi can be equipped with an optional ceiling mounting plate.

1. Fasten the M8 thread bars on the rafter frames or other frame structure and fasten the nuts onto the bars.
2. Lift the ceiling mounting plate in place.
3. Push a rubber damper and a washer to each thread bar.
4. Adjust the nuts so that the ceiling mounting plate is level.
5. Check that the condensate insulation rings (at least exhaust air and outdoor air duct) are in place in the outlet collars below the ceiling mounting plate.
6. Pull out the operating levers (A) (Figure 1) and turn them towards the outer sides of the plate so that they are secured in the open position (Figure 2).
7. Remove the ventilation unit's door before installing the ventilation unit to the ceiling mounting plate.
8. Lift the ventilation unit close to the ceiling mounting plate and feed the cables and the connection box through the hole in the ceiling mounting plate on top of the ceiling.
9. Lift the ventilation unit against the ceiling mounting plate (Figure 3). Where needed, guide the mounting hooks on the ceiling mounting plate (3B) to the grooves on the side panels of the ventilation unit. Turn the operating levers back to the closed position (Figure 4). The levers will lock the unit to the ceiling mounting plate (Figure 5). When the operating levers are in the closed position and the unit has been secured to the ceiling mounting plate, the levers should be level with the front edge of the ceiling mounting plate.
10. Where required, the unit can be detached from the ceiling mounting plate. Remove the unit door and lift the unit slightly upwards. Pull out both operating levers (A) (Figure 1) and turn them towards the outer sides of the plate so that they are secured in the open position (Figure 2).



The ventilation unit is very heavy. Do not perform this procedure alone. Use appropriate lifting equipment, where necessary.

The end of the thread bars must be 5 mm or less below the fastening nut.

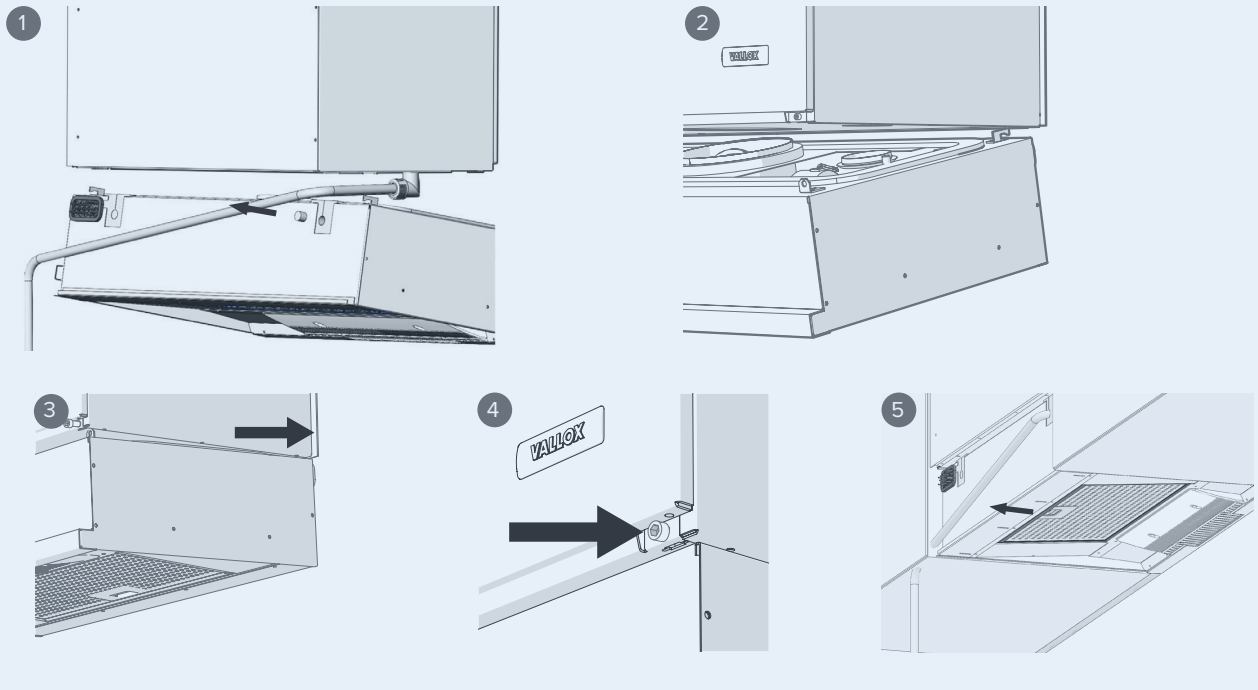
Remember to make a maintenance hatch in the ceiling so that the cables and the connection box can be accessed. The distance between the maintenance hatch and the ceiling mounting plate should be around 500 mm.

INSTALLATION OF THE VALLOX CAPTURA COOKER HOOD

The Vallox Captura cooker hood is installed on the bottom of MyVallox 51K CFi.

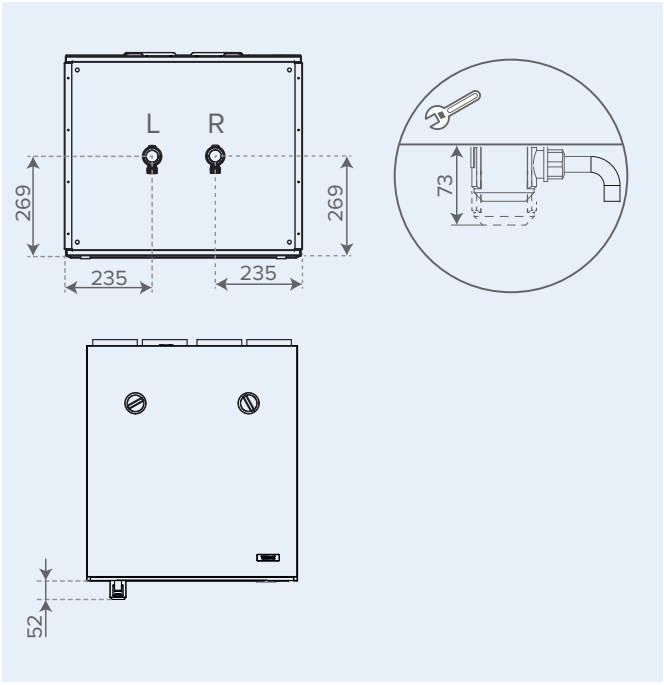
1. Remove the plug from the feedthrough seal of the condensing water tube of the cooker hood (Figure 1).
2. Lift the cooker hood and fit the hooks at the rear of the cooker hood into the holes at the bottom of the ventilation unit. Push in place (Figure 2).
3. Ensure that the feedthrough seal of the condensing water tube sits firmly around the tube.
4. Lift the front of the cooker hood to fit the mountings into the penetrations in the bottom of the ventilation unit (Figure 3).
5. Fasten the M5 hexagon screws (2) through the mountings (Figure 4).
6. Lead the power cord and the control cable up along the cable channel. Wind approx. half a metre of the cables behind the cooker hood so that it can be removed for maintenance purposes where required.
7. Move the metal cover backwards so that it covers the opening between the cooker hood and the wall (Figure 5).

The minimum clearance between the bottom edge of the cooker hood and an electric stove is 426 mm.

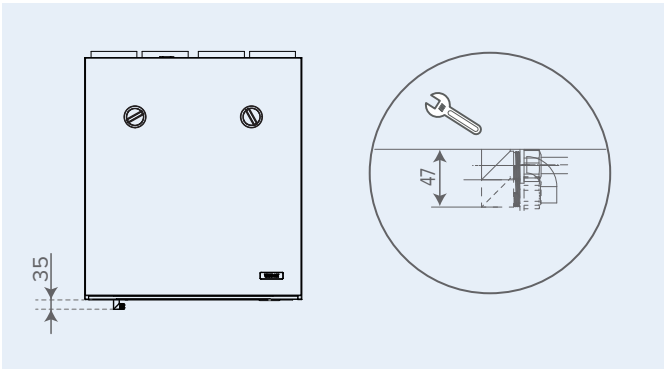


REMOVAL OF CONDENSING WATER

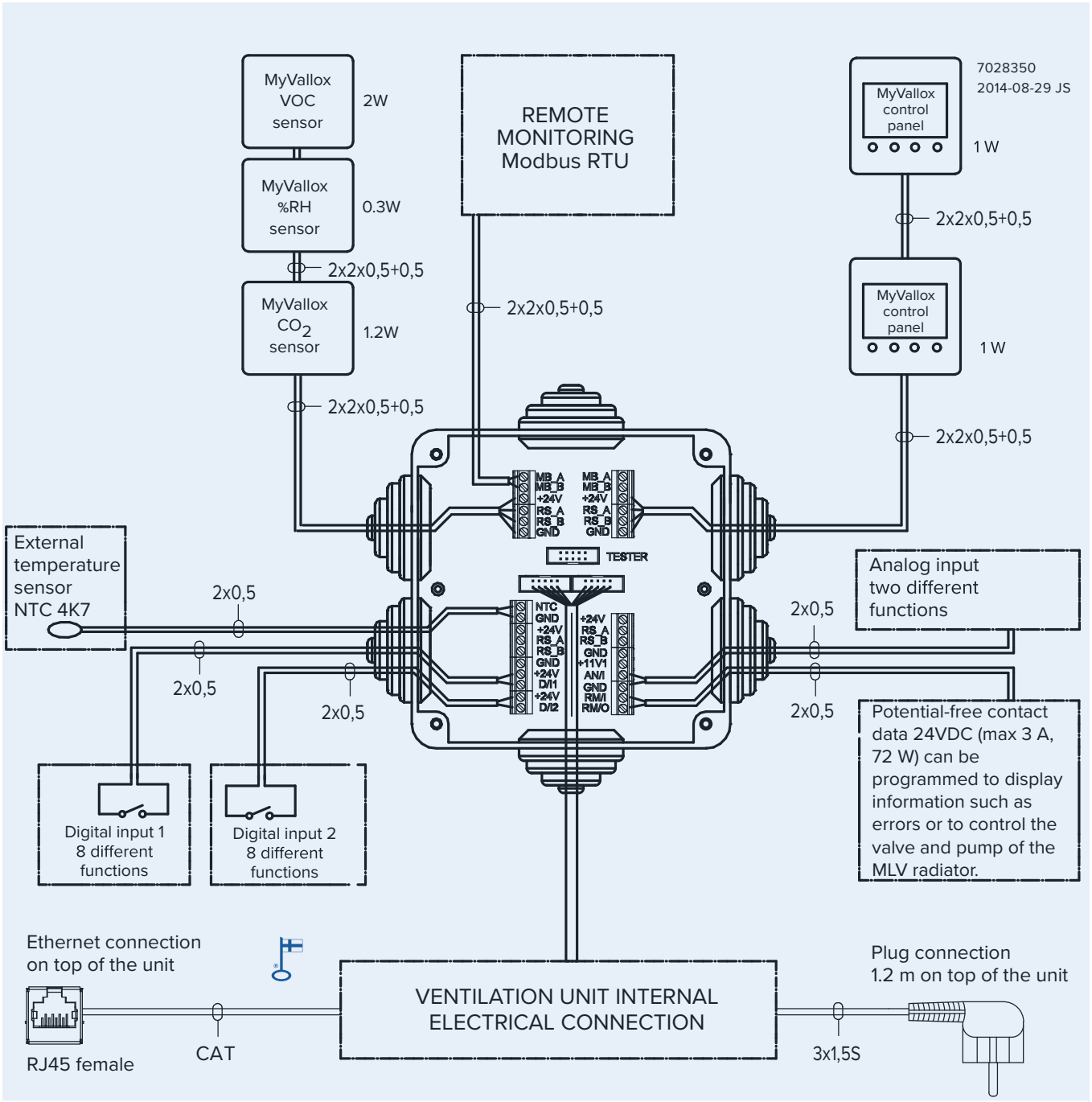
Dimensioning figure and space required for the installation of the Vallox Silent Klick siphon



Space required by the alternative Vallox Silent Klick siphon installation method (elbow)



EXTERNAL ELECTRICAL CONNECTION



Power supply

Maximum	≤6W	MB_A	External Modbus A signal	D/I2	Digital input 2
MyVallox Control	1 W	MB_B	External Modbus B signal	11V1	11.1 V operating voltage
MyVallox Touch	0.5 W	+24V	+24V voltage (DC)	AN/I	Analog input 0–10 VDC
%RH sensor	0.3 W	GND	Digital and analog ground potential	RM/I	24V relay input
CO_2 sensor	1.2 W	RS_A	Local hardware Modbus A signal	RM/O	24V relay output
VOC sensor	2 W	RS_B	Local hardware Modbus B signal		
External actuator or damper motor of the unit that receives feed from the relay		NTC	External temperature sensor connector		
Voltage	24 VDC	D/I1	Digital input 1		

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11.6.2026 | ENG | PDF