

# MYVALLOX 119 CFi MYVALLOX 149 CFi

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Easy to install, carefree to use



**VALLOX**  
HOME *of* FRESH AIR

# MyVALLOX

119 CFi

# MyVALLOX

149 CFi

*Ideal for single-family houses, the latest Vallox ventilation unit models are equipped with constant flow fans that ensure quick and easy installation and setup. For the resident, the units promise carefree and energy-efficient ventilation.*

The new MyVallox 119 CFi and MyVallox 149 CFi ventilation units differ in performance figures but have the same physical dimensions. They are perfect for apartments and single-family houses of all sizes: The indicative maximum floor area of the apartment is 190 m<sup>2</sup> for MyVallox 119 CFi and 250 m<sup>2</sup> for MyVallox 149 CFi.

### Handedness can be decided at the installation site

Finnish installers are accustomed to deciding the handedness of the unit when drafting the HVAC plan. The handedness of the new MyVallox 119 and 149 CFi ventilation units does not need to be decided when ordering the unit as the handedness of the unit can be changed just by switching

the placement of the doors. The factory standard is right-handedness.

The units can be mounted on the wall, ceiling or floor. A wall mounting plate is included in the delivery, and the available accessories include a ceiling mounting plate and a roof feedthrough or a floor mounting plate.

### Faster setup

Both MyVallox 119 and 149 CFi have a new, advanced CFi constant flow feature with measurement technology developed by Vallox. The setup of CFi units is easier than ever as the air flow control is litre-based and it can be adjusted directly through the control system. This makes the unit significantly faster to install.

The setup information can be saved and used later for installation at a similar location, making the installer's job even easier.

### Air flows always in balance

The constant flow feature balances ventilation, keeping the air flow always at the preferred level even in windy conditions.

Managing the pressure conditions of the home is crucial for maximising living comfort. For example, underpressure allows impurities to penetrate the indoor air and makes opening the front door difficult. On the other hand, if the home is pressurised, the windows could frost over or moisture could condense in the structures. This, in turn, can lead to health problems or even



building damage in the long run. The constant flow feature makes managing the pressure conditions easy.

Units equipped with the constant flow feature also compensate for dirty filters, meaning that the air flow volume does not suffer even as the filters become dirty. However, dirty filters increase the fan output, resulting in higher energy consumption. Therefore, the filters should be replaced regularly. Clean filters also keep the supply air fresh.

### Carefree ventilation

The filters of MyVallox 119 and 149 CFI can be replaced without opening the unit door. The airtight filter hatches on the door are easy to remove and replace.

The unit has all the modern MyVallox features, including integrated humidity and carbon dioxide sensors that boost ventilation when necessary. This ensures automated and energy-efficient ventilation.

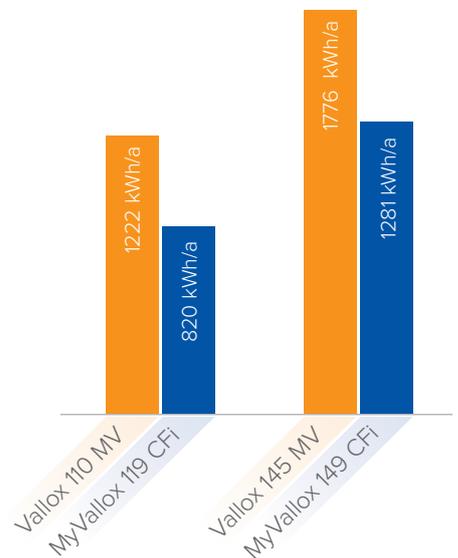
The unit is controlled from an apartment-specific control panel or the cooker hood. The unit can also be connected to a free cloud service or the building automation system.

### Increased energy efficiency

The MyVallox 119 and 149 CFI units' efficient heat recovery system ensures energy efficiency. The units have an excellent annual efficiency of 83–84%. The partial bypassing of the heat recovery cell maintains the supply air temperature also in spring and autumn.

The units' constant flow fans are also extremely energy-efficient and consume significantly less electricity than older ventilation unit models. Both models' energy class is A+.

*The electricity consumption of the new MyVallox 119 and 149 CFI ventilation units is up to a third lower than the consumption of equivalent older units.*

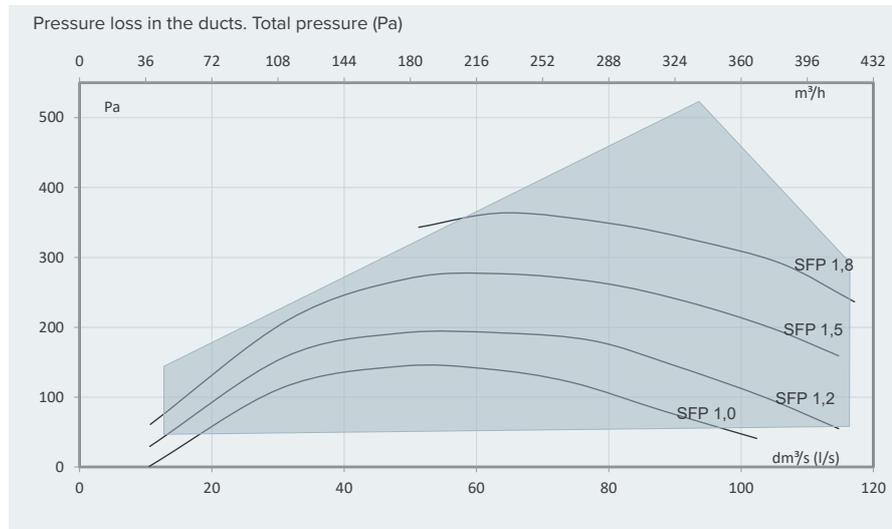


TECHNICAL SPECIFICATIONS				
Product title	MyVallox 119 CFI XA12	MyVallox 149 CFI XA12	MyVallox 119 CFI XA12 & MyVallox 149 CFI XA12	
Product number	4126609	4122612	Heat recovery bypass	Automatic
HVAC code	7912227	7912226	Post-heating	Electrical resistor, 900 W
Air volumes	Supply Air 116 dm <sup>3</sup> /s, 100 Pa Extract air 117 dm <sup>3</sup> /s, 100 Pa	Supply Air 145 dm <sup>3</sup> /s, 100 Pa Extract air 148 dm <sup>3</sup> /s, 100 Pa	Pre-heating	–
Fans	Supply air 0.12 kW, 1.0 A EC Extract air 0.12 kW, 1.0 A EC	Supply air 0.17 kW, 1.35 A EC Extract air 0.17 kW, 1.35 A EC	Additional heating	Electrical resistor, 1500 W
Electrical connection	230 V, 50 Hz, 12.2 A power plug	230 V, 50 Hz, 12.9 A power plug	Enclosure protection class	IP34
Efficiencies*	Annual efficiency 84% Supply air efficiency 89% Specific Fan Power (SFP) 0.9 kW/m <sup>3</sup> /s (81 dm <sup>3</sup> /s)	Annual efficiency 83% Supply air efficiency 89% Specific Fan Power (SFP) 1.1 kW/m <sup>3</sup> /s (101 dm <sup>3</sup> /s)	Filters	Supply air ISO Coarse > 75% + ISO ePM <sub>1</sub> ≥ 60 % Extract air ISO Coarse > 75%
Specific energy consumption (SEC)	in a cold climate A+ in a temperate climate A+		Dimensions (w x h x d)	643 x 932 x 540 mm
			Weight	79 kg

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

## MyVallox 119 CFI

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



SFP rate (Specific Fan Power) recommended value <math><1.8 \text{ (kW/ m}^3\text{/s)}</math>. When a lower total pressure is used, also the SFP of the speed is lowered.

#### INPUT POWER OF THE FAN

	l/s	m <sup>3</sup> /h	Pa	W
Min	12	44	77	17
Mid	64	231	210	79
Max	116	418	292	221

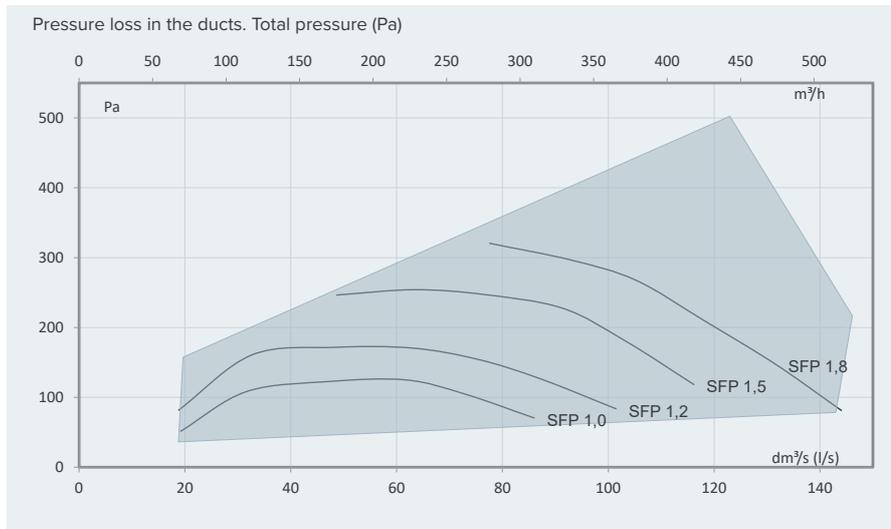
#### SOUND VALUES

		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							
		15	30	45	60	75	90	105	119	15	30	45	60	75	90	105	119
Air flow l/s		15	30	45	60	75	90	105	119	15	30	45	60	75	90	105	119
Medium frequency of the octave band Hz	63	54	63	62	67	71	75	75	77	49	50	53	64	64	70	73	74
	125	50	56	62	65	68	76	73	75	40	47	54	53	55	58	61	62
	250	45	51	64	69	71	75	72	73	33	36	45	56	53	55	57	58
	500	37	45	54	57	58	62	76	83	24	25	28	32	36	40	44	43
	1000	33	39	47	53	57	61	66	68	21	22	22	27	30	35	39	42
	2000	19	27	40	48	53	58	61	64	15	15	16	18	22	27	32	35
	4000	17	17	25	34	41	47	51	55	17	17	17	17	17	20	24	28
8000	21	22	22	25	31	38	43	48	21	21	21	21	21	21	22	23	
$L_w$ , dB		56	64	68	72	75	81	81	85	50	52	57	65	65	71	74	75
$L_{WA}$ , dB(A)		41	48	57	62	65	70	75	80	31	34	41	48	47	50	52	54
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		15	30	45	60	75	90	105	119								
$L_{pA}$ , dB (A)		22	27	30	33	36	41	43	44								

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

## MyVallox 149 CFI

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



SFP rate (Specific Fan Power) recommended value <math><1.8 \text{ (kW/ m}^3\text{/s)}</math>. When a lower total pressure is used, also the SFP of the speed is lowered.

#### INPUT POWER OF THE FAN

	l/s	m <sup>3</sup> /h	Pa	W
Min	19	69	96	24
Mid	76	274	181	98
Max	146	524	217	322

#### SOUND VALUES

Air flow l/s		Sound power level in the supply air ducts by octave band L <sub>w</sub> dB										Sound power level in the extract air ducts by octave band L <sub>w</sub> dB									
		20	30	45	60	75	90	105	120	135	149	20	30	45	60	75	90	105	120	135	149
Medium frequency of the octave band Hz	63	55	58	62	67	70	72	74	79	79	82	47	48	53	57	63	68	72	75	79	80
	125	48	57	64	65	68	71	74	76	78	78	41	43	50	52	55	58	61	63	65	66
	250	43	51	59	69	69	78	77	74	76	77	29	38	42	54	54	54	59	60	62	64
	500	37	46	53	59	62	66	82	85	84	81	21	23	26	32	36	40	47	48	50	58
	1000	29	39	47	53	58	61	65	69	71	72	13	15	21	27	31	35	38	43	45	46
	2000	18	28	40	48	54	58	62	65	67	69	13	13	14	18	23	28	32	35	38	40
	4000	17	18	25	35	42	47	52	56	59	61	16	16	16	17	17	19	22	26	30	32
	8000	22	22	22	26	33	40	44	49	52	54	22	22	22	22	22	22	23	24	26	
L <sub>w</sub> dB		56	61	67	72	74	80	85	87	87	86	48	50	55	60	64	69	73	75	79	80
L <sub>wA</sub> dB(A)		39	48	55	63	65	71	80	83	82	80	29	33	37	46	47	49	53	55	58	60
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		20	30	45	60	75	90	105	120	135	149										
L <sub>pA</sub> dB (A)		21	27	28	38	40	41	44	46	47	49										

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



## ACCESSORIES

The delivery of a MyVallox 119 CFi and MyVallox 149 CFi ventilation unit includes a MyVallox Control panel, a Vallox Silent Klick 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 and VOC sensor.

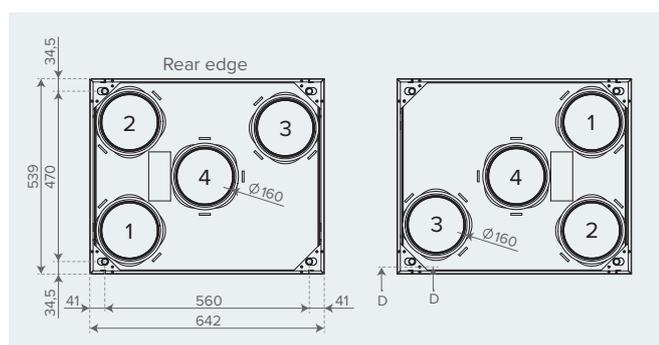
Original Vallox filters are available for MyVallox 119 CFi and MyVallox 149 CFi. Filter package no. 36 includes all the filters needed for one filter replacement.

### 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



MyVallox 119 CFi & MyVallox 149 CFi	Product number	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
Ceiling mounting plate MyVallox 119/149 CFi	4114260	7912228
Insulated roof feedthrough MyVallox 119/149 CFi	4115699	7912230
Floor mounting plate MyVallox 119/149 CFi	4115127	7912229
Filter package 36	4127576	7912259

### Attic floor penetration plate

The attic floor penetration plate is intended for sealing the duct installation of the ventilation unit. When the vapour barrier of the building enclosure is penetrated by ventilation ducts, the penetrations must be sealed to keep the indoor air humidity out of the insulation layers. The attic floor penetration plate provides a convenient way of sealing.

### Floor mounting plate

With the floor mounting plate, the unit can be mounted directly on the floor.

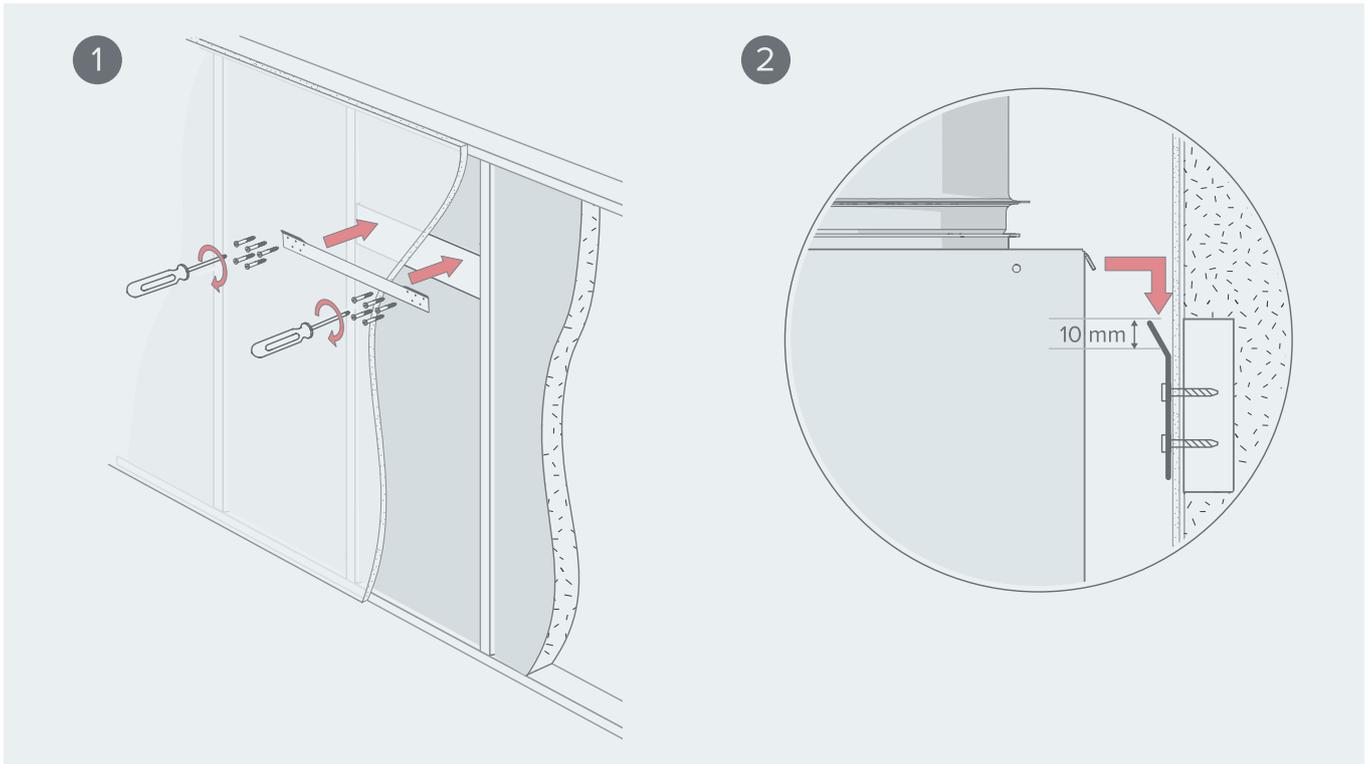
## MOUNTING ON THE WALL

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 555 mm in front of the unit for servicing purposes.



## MOUNTING ON THE CEILING

### Installing the ventilation unit to the ceiling mounting plate

A ceiling mounting plate is available as an accessory for MyVallox 119 CFi and MyVallox 149 CFi.

1. Install the ceiling mounting plate with M8 thread bars so that it is horizontally level. Do not fasten the ceiling mounting plate too tight to the ceiling.

#### Option 1.

Pull from the operating levers (A) to ensure that the sliding bars move and return to their original position.

#### Option 2.

Make sure that the sliding bars move and that they return to their original position by pushing the ejector lever (B) e.g. with a small screwdriver. The top edge of the white covering strip of the ceiling mounting plate can be installed against the ceiling. Alternatively, a concealed mounting method can be used, in which case the ceiling can be 25 mm below the top of the white covering strip.

2. Ensure that the insulation washers are in place in the outlet collars below the ceiling mounting plate.
3. Remove the door covering strip and the door for the installation of the unit.
4. Lift the ventilation unit close to the ceiling mounting plate and feed the cables through the hole in the ceiling mounting plate on top of the ceiling. When the ventilation unit is lifted against the ceiling mounting plate, the unit locks in place. Where needed, guide the mounting hooks on the ceiling panels of the ventilation unit (C).

#### Option 1.

The front bottom corners of the ceiling mounting plate have operating levers (A) that lock the plate. If the inner edges of the levers have returned to the same level as the front edge of the unit's ceiling, the unit has been locked onto the ceiling mounting plate.

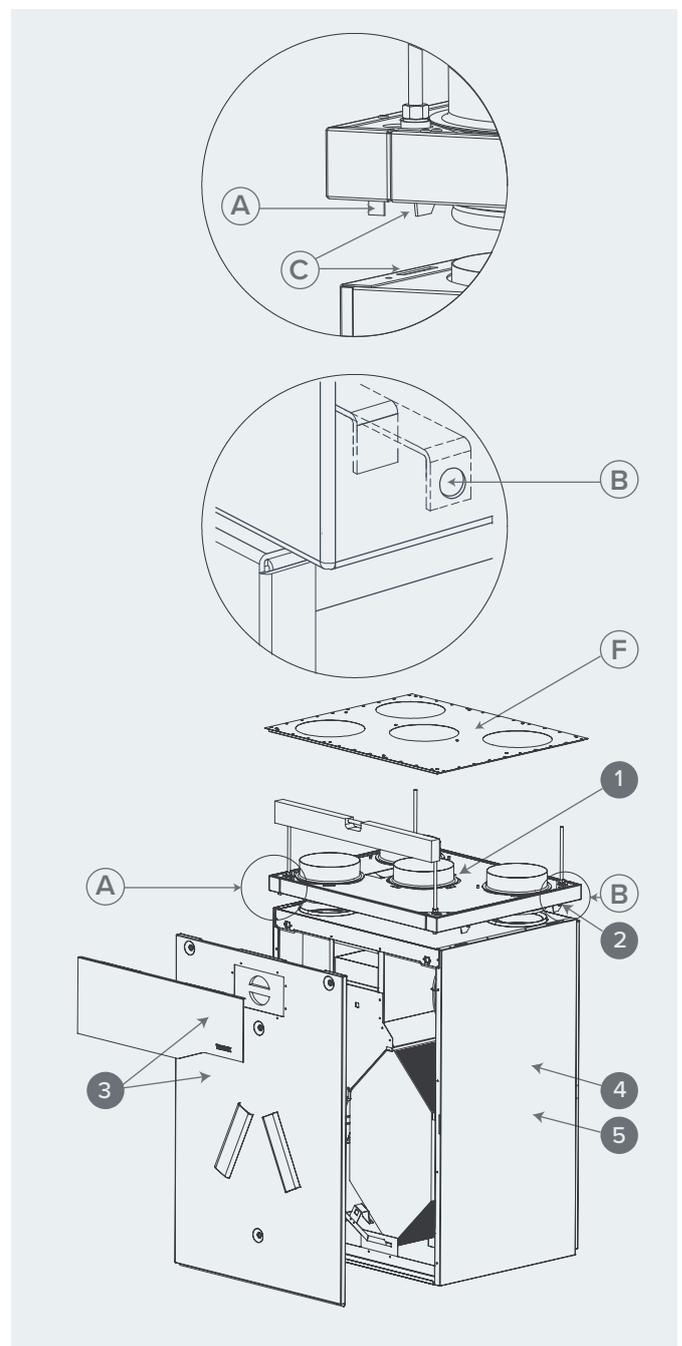
#### Option 2.

The front corners of the ceiling mounting plate have holes through which you can see the ejector levers (B) of the locking mechanism. If the inner edges of the levers have returned to the

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.



same level as the inner surface of the covering strip, the unit has been locked onto the ceiling mounting plate.

#### 5. Option 1.

The front bottom corners of the ceiling mounting plate have operating levers (A) that lock the plate. If the inner edges of the levers have returned to the same level as the front edge of the unit's ceiling, the unit has been locked onto the ceiling mounting plate.

#### Option 2.

Where required, the unit can be detached from the ceiling mounting plate. Lift the unit slightly upwards and push (e.g. with a small screwdriver) both ejector levers (B) of the ceiling mounting plate simultaneously to detach the unit from the ceiling mounting plate.

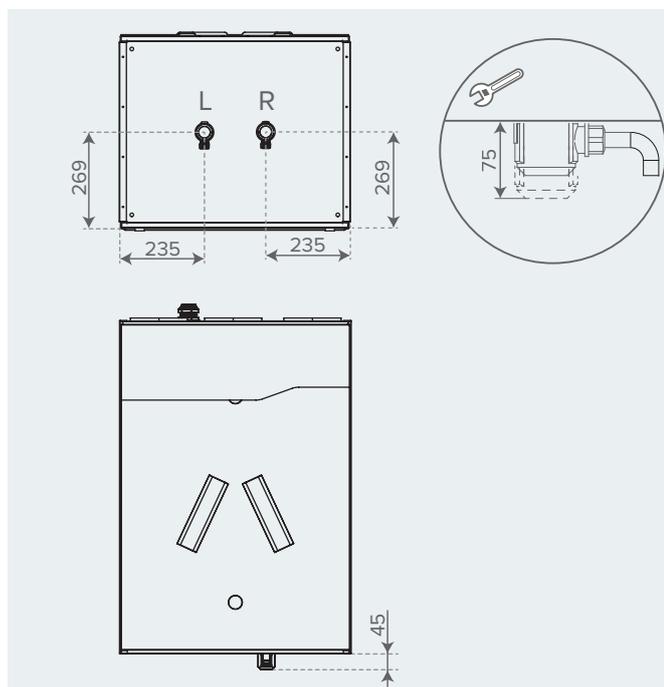
### Attic floor penetration plate

The attic floor penetration plate (F) is optional. When an insulated attic floor penetration plate is used, the tightness of the vapour barrier has to be ensured.

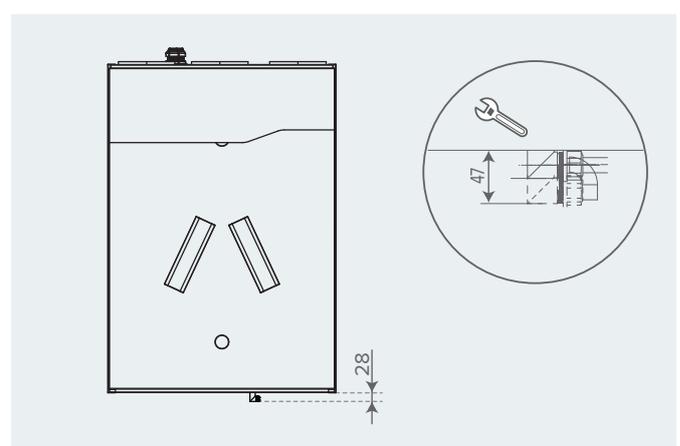
The insulated attic floor penetration plate can be fastened on the finished rear wall. The minimum distance of the insulated attic floor penetration plate from the finished side walls is 15 mm.

## REMOVAL OF CONDENSING WATER

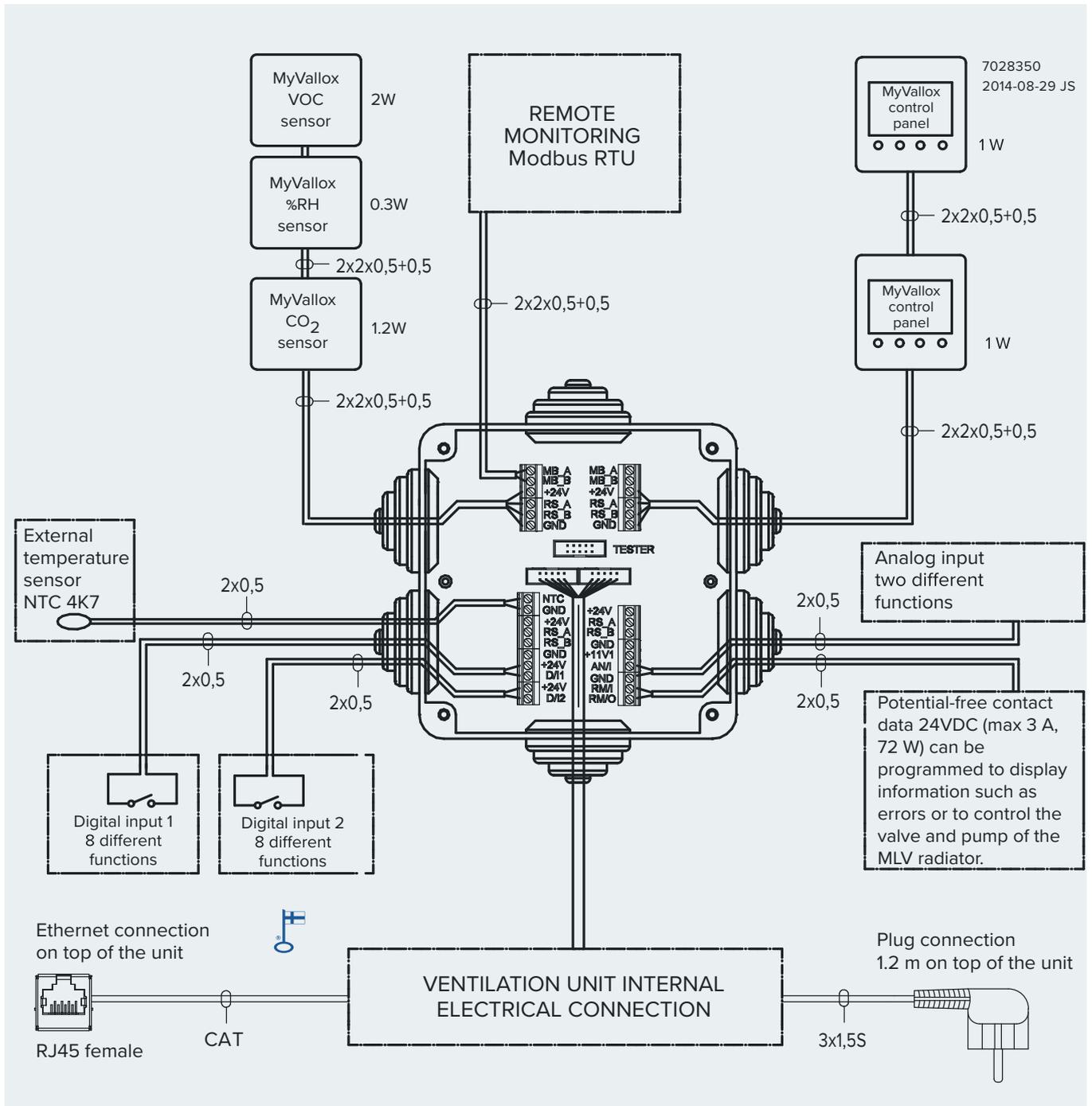
### Dimensioning figure and space required for the installation of the Vallox Silent Klick siphon



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



# EXTERNAL ELECTRICAL CONNECTION



## POWER SUPPLY

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

**VALLOX**

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