TECHNICAL BROCHURE

MYVALLOX 125 CFI

Energy-efficient and modern solution for ventilation renovation

MyVallox 125 CFi replaces dozens of old ventilation unit models

VALLOX

HOME *of* FRESH AIR

MyVALLOX

125 CFi

Equipped with the new CFi constant flow feature, the MyVallox 125 CFi ventilation unit will revolutionise ventilation unit renovation. The different MyVallox 125 CFi models can quickly and easily replace dozens of old ventilation unit models to achieve energy-efficient ventilation with modern features.

The new MyVallox 125 CFi ventilation unit comes in several models, with the duct outlet being the only difference between them. The duct outlets are located similarly as in the old ventilation unit models or they require only minor changes to the ducts. This means easier and faster ventilation renovation, which also saves money.

Unlike the previously launched Vallox 125 MV, the new MyVallox 125 CFi models have constant flow fans. The fans maintain the air flows at the set level in all weather conditions and even during heat recovery cell defrosting and regardless of the bypass status or dirty filters. For example, uncontrolled pressure differences caused by wind and differences in temperature can result in frosted windows, impurities in indoor air or accumulation of moisture in the building structures. A ventilation unit equipped with constant flow fans makes managing pressure differences easy.

Replaces dozens of old ventilation unit models

For instance, the MyVallox 125 CFi ventilation unit can replace MUH Ilmava, Vallox Digit SE, Ilto 440 and dozens of other old ventilation unit models.

The letter in the name of the unit indicates the model, that is, the order and locations of the duct outlets. See the tables on pages 5–8 to find a suitable model to replace your old unit. For instance, the duct outlets of model 125A are similar to those of the MUH Ilmava 100, MUH Ilmava 120 and Vallox 121 SE/MC units. Therefore, they can be replaced with MyVallox 125A CFi without any changes to the ducts.

The roof part of each model is attached to the unit at the factory, after which the necessary operation and leak tests are performed. This ensures the unit's performance, airtightness and energy efficiency.

Furthermore, no separate adapter for adjusting the duct order is needed between the duct system and the unit.

MyVallox 125 CFi is ideal for apartments with an indicative maximum floor area of 180 m², however, the unit's suitability for an apartment is determined by the air volume demand. The MyVallox 125 CFi ventilation unit's maximum extract air flow is 111 l/s and its maximum supply air flow is 107 l/s at a pressure loss of 100 Pa.

Energy-efficient unit with modern features

A modern ventilation system measures the air quality automatically, continuously supplying clean, filtered and warm air inside the apartment – as needed. The features of MyVallox 125 CFi perfectly meet these current requirements for operation and energy-efficiency.

Thanks to the constant flow feature, MyVallox 125 CFi's EC fans consume up to 50% less electricity than the AC fans of older models. The advanced defrosting automation ensures that MyVallox 125 CFi does not stop the supply air fan even in the coldest weather.

The units have multiple control options, including remote control with a free cloud service and the option of connecting the unit to building automation. Indoor air quality is monitored by the integrated humidity and carbon dioxide sensors that boost the ventilation when necessary. This also helps to keep energy consumption under control.

The supply air efficiency ratio of the unit's heat recovery is 81% and the annual efficiency of the unit is 75%. This figure indicates how efficiently the heat recovered from extract air can heat the supply air. Thanks to the efficient heat recovery, the energy consumption of ventilation remains low even at the higher powers, and separate preheating is no longer needed.

The following are examples of ventilation units that can be replaced with the MyVallox 125 CFi unit without any changes to the ducts: the Vallox MUH Ilmava, Vallox Digit, Vallox 75, Vallox 95 and Vallox 121 models and, for instance, Ilto 440 and Onnline 130 units made by other manufactures.

Watch the video of the installation of the MyVallox 125 CFi unit.

https://www.vallox.com/en/myvallox-125/

TECHNICAL SPECIFICATIONS

Product title	MyVallox 125 CFi		
Air volumes Supply air Extract air	 107 dm^3/s, 100 Pa 111 dm^3/s, 100 Pa	**Heat recovery bypass**	Automatic
Fans Supply air Extract air	 0.17 kW, 1.35A EC 0.17 kW, 1.35A EC	**Post-heating**	Electrical resistor, 900 W
Electrical connection	230 V, 50 Hz, 9.3 A (plug)	**Pre-heating**	–
Efficiencies* Annual efficiency Supply air efficiency Specific Fan Power (SFP)	 75% 81% 1.54 kW/m^3/s (75 dm^3/s)	**Additional heating**	Electrical resistor, 900 W
Specific energy consumption (SEC) cold climate average climate	 A+ A	**Enclosure protection class**	IP 34
Filters Supply air Extract air	 ISO Coarse > 75% + ISO $ePM_1 \geq 50\%$ ISO Coarse > 75%	**Dimensions** (w x h x d)	598 x 525 x 601 mm
		Weight	66 kg

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

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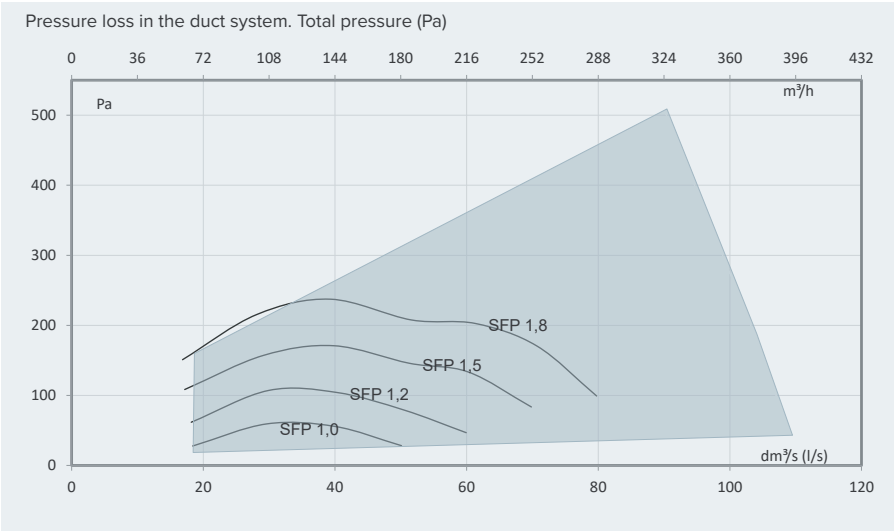
MyVallox 125 CFi
Fan's supply and extract air volumes and specific electricity consumption



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

INPUT POWER OF THE FAN

	l/s	m^3/h	Pa	W
Min	18	65	97	26
Mid	60	216	119	86
Max	104	373	188	311

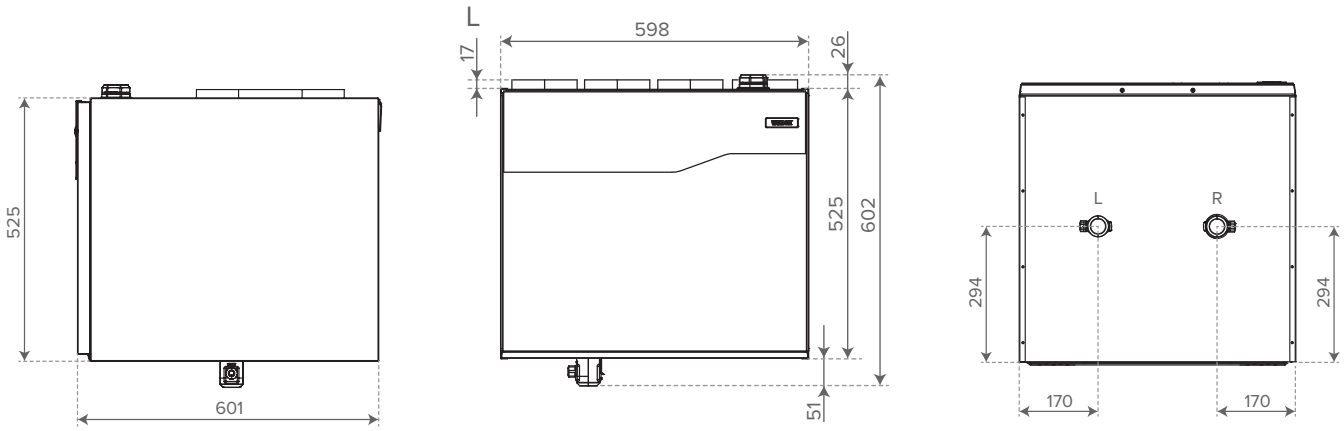
SOUND VALUES

		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		20	30	40	50	60	70	80	90	110	20	30	40	50	60	70	80	90	110
Medium frequency of the octave band Hz	63	60	63	66	70	74	78	80	82	82	52	55	60	66	70	75	77	80	82
	125	56	60	62	64	66	69	70	73	78	45	50	53	57	59	62	64	67	69
	250	52	57	61	63	65	67	69	73	72	35	43	48	53	55	58	60	62	64
	500	39	45	50	54	58	61	64	71	70	26	31	36	40	45	46	50	51	59
	1000	40	46	52	56	59	62	65	67	69	17	24	30	34	38	41	43	46	48
	2000	28	37	43	48	52	56	59	62	63	13	15	20	24	29	33	36	39	42
	4000	18	26	34	40	45	49	53	56	58	16	16	17	18	21	24	27	30	34
	8000	22	22	26	32	38	43	48	51	53	22	22	21	22	22	22	24	26	29
L_W,dB		66	66	69	72	76	79	81	84	84	53	57	61	66	70	75	77	80	82
L_{WA}, dB(A)		52	52	56	60	63	66	69	73	73	33	38	43	47	51	54	56	58	61

	Sound pressure level coming through the envelope of the unit in the room in which it is installed (10m^2 sound absorption)								
Air flow l/s	20	30	40	50	60	70	80	90	110
L_{pA}, dB (A)	24	29	34	38	41	45	48	50	51

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

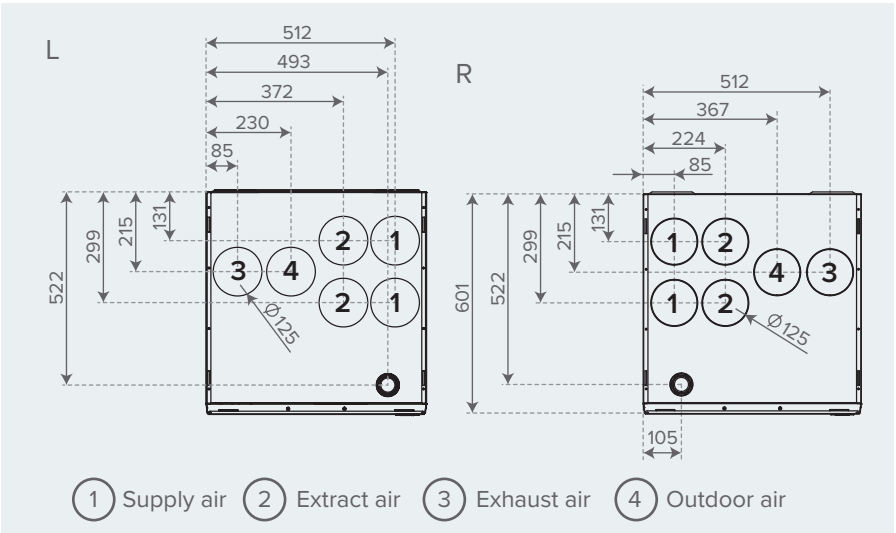
MyVallox 125 CFi | The dimensions of the frame are the same for all models



Side | Front | Bottom

MyVallox 125A CFi | Dimensions and duct outlets

A



Replaces the following ventilation unit models:

Duct outlets in the same places

	Type code
MUH Ilmava	*3461, B3461*
MUH Ilmava OK	*3462, B3462*
MUH Ilmava VKL	*3463, B3463*
MUH Ilmava VKL OK	*3464, B3464*
MUH Ilmava 100	*B3461, C3461*
MUH Ilmava 100 OK	*B3462, C3462*
MUH Ilmava 100 VKL	*B3463, C3463*
MUH Ilmava 100 VKL OK	*B3464, C3464*
MUH Ilmava 120	*B3461, B3462, B3463, B3464, C3461, C3462, C3463, C3464*
MUH Ilmava 120 VKL	*B3461, B3462, B3463, B3464, C3461, C3462, C3463, C3464*
Vallox 121 MC	*3561*
Vallox 121 SE	*3560, A3560*

Minor changes in duct outlets

Onnline 100 *
Onnline 120 *
Deekax Talteri DIVK 290 Mounting Kit 2 *
Deekax Talteri DIVK 290 DEM Mounting Kit 2 *
Ilto 300 *
Ilto 350 *
Ilto 400 *
Haato LTO 11 *
Haato LTO 21 *
Haato LTO 25 *

* Moves a few millimetres.

More significant changes in duct outlets

Deekax Talteri DIVK 280 (model 1994-2002) **
Deekax Talteri DIVK 290 Mounting Kit 1 **
Deekax Talteri DIVK 290 DEM Mounting Kit 1 **
Deekax Talteri DIVK 400 **
Parmair ExSO ***
Parmair ExVO ***
Parmair ExS kt ***
Parmair ExV kt ***

** The place of the extract air duct moves about 80 mm.
*** Only the rearmost supply air duct will be used.

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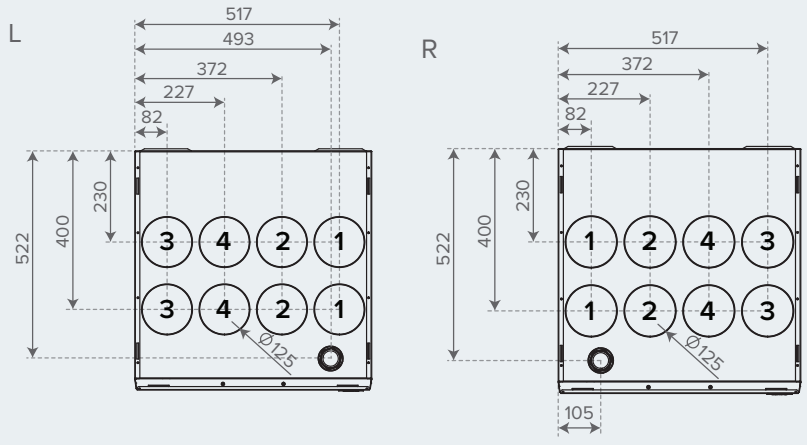
B

MyVallox 125B CFi | Dimensions and duct outlets



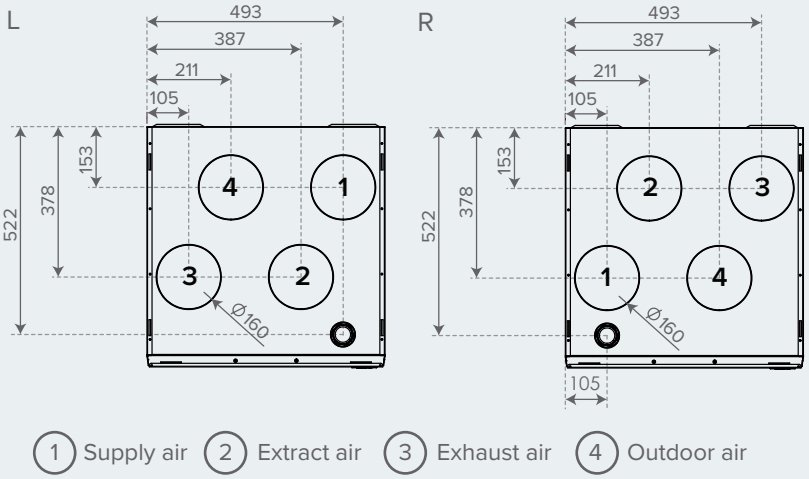
Replaces the following ventilation unit models:

Duct outlets in the same places

	Type code
Ilmava Digit	*3465*
Ilmava Digit VKL	*3465*
Ilmava Digit S	*3465 S*
Ilmava Digit S VKL	*3465 S*
Ilmava 130	*3465*
Ilmava 130 VKL	*3465*

C

MyVallox 125C CFi | Dimensions and duct outlets



Replaces the following ventilation unit models:

Duct outlets in the same places

	Type code
Vallox Digit SE	*3500 SE, A3500 SE, B3500 SE*
Vallox 130 E	*3500 E*
Uponor Vent SE	*3500 SE, A3500 SE, B3500 SE*

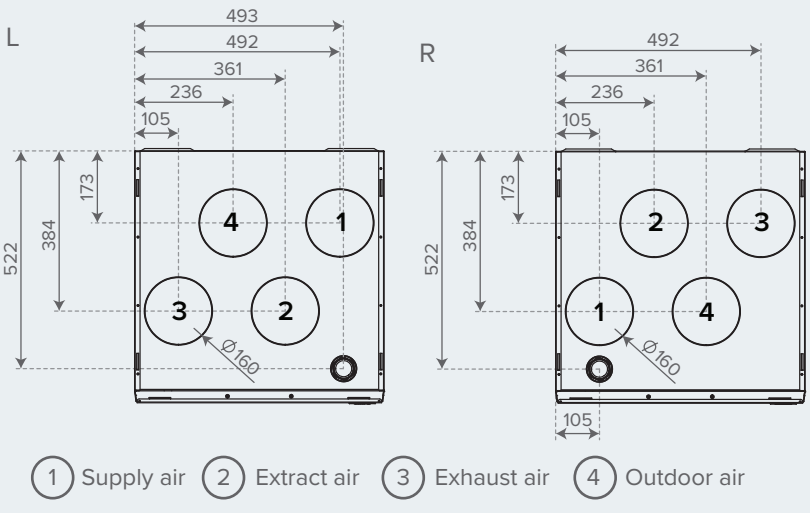
Minor changes in duct outlets

Mer-Air 21C *

* Moves a few millimetres.

D

MyVallox 125D CFi | Dimensions and duct outlets



Replaces the following ventilation unit models:

Duct outlets in the same places

	Type code
Vallox Digit2 SE	*3550 SE, A3550 SE*
Vallox Digit2 SE VKL	*3550 SE, A3550 SE*
Vallox Digit2 SE MLV	*3550 SE, A3550 SE*
Vallox Digit2 SE MLV VKL	*3550 SE, A3550 SE*
Vallox 132 E	*3550 E, A3550 E*
Vallox 132 E VKL	*3550 E, A3550 E*

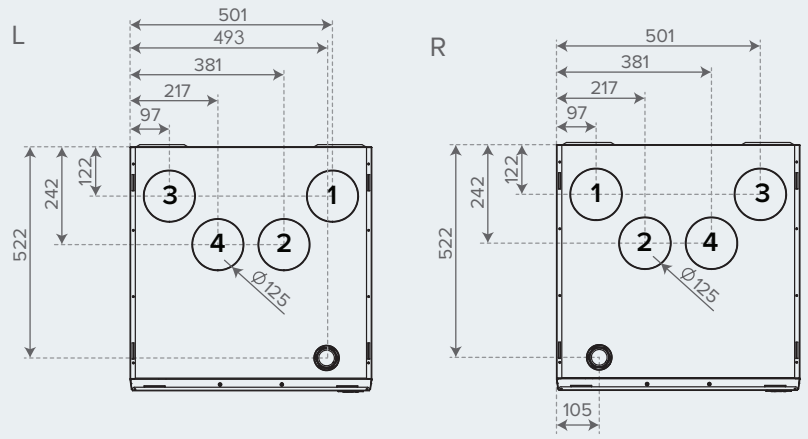
Minor changes in duct outlets

Deekax Talteri DIVK 430 *
Deekax Talteri DIVK 435 *
Deekax Talteri DIVK 440 *

* Moves a few millimetres.

E

MyVallox 125E CFi | Dimensions and duct outlets



Replaces the following ventilation unit models:

Duct outlets in the same places

	Type code
Vallox 75	*3510*
Vallox 75 Silent	*3510*
Vallox 95	*3510*
Vallox 95 Silent	*3510*
Vallox 95 EC	*3512*
Vallox 95 EC VKL	*3512*

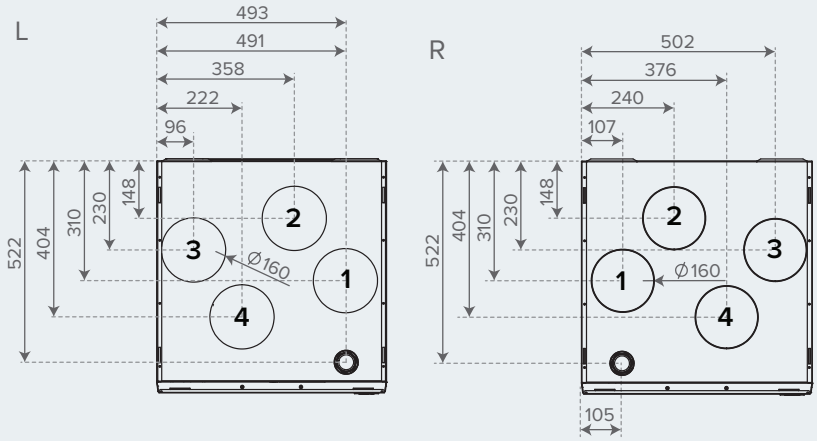
Minor changes in duct outlets

Onnline 105 *

* Moves a few millimetres.

F

MyVallox 125F CFi | Dimensions and duct outlets



Replaces the following ventilation unit models:

Duct outlets in the same places

Ilto 430

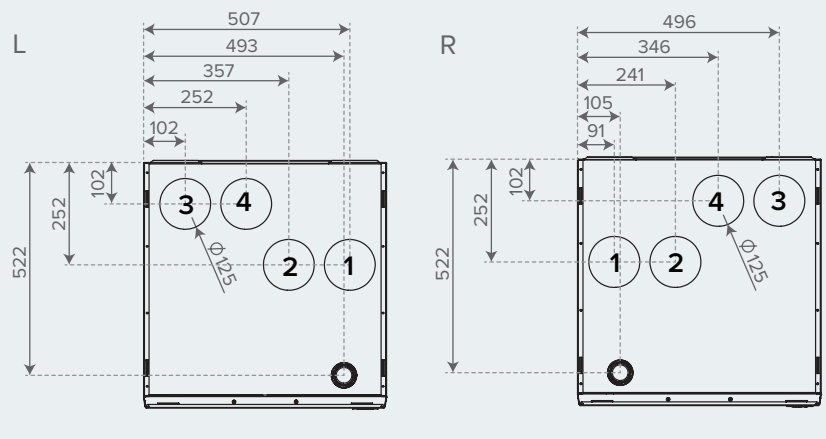
Ilto 440 Control

Ilto 440 Premium

Onnline 130

G

MyVallox 125G CFi | Dimensions and duct outlets



Replaces the following ventilation unit models:

Duct outlets in the same places

Ilto 270

Ilto 280

Ilto 290

Minor changes in duct outlets

Ilto 250 *

Ilto 260 *

* Moves a few millimetres.

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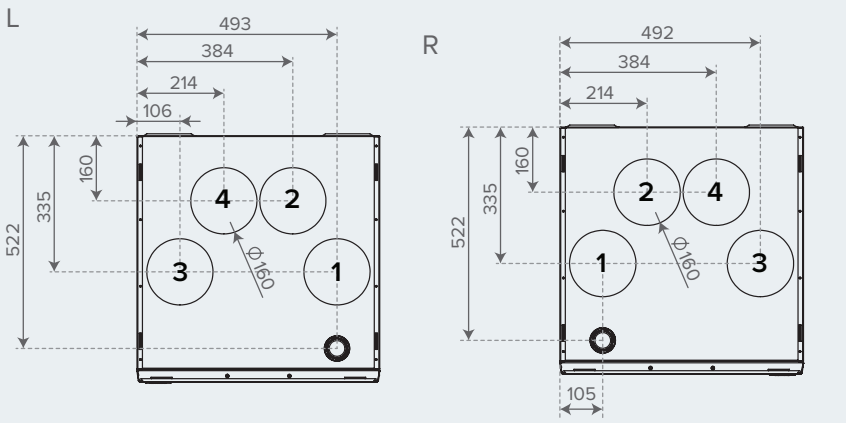
H

MyVallox 125H CFi | Dimensions and duct outlets



1 Supply air 2 Extract air 3 Exhaust air 4 Outdoor air

Replaces the following ventilation unit models:

Duct outlets in the same places

Iloxair Mosaik (4 x 160 mm duct outlets)

MyVallox 125 CFi product numbers and HVAC codes

Item	Product number	HVAC code
MyVallox 125A CFi RA12	4128110	7912231
MyVallox 125A CFi LA12	4128111	7912232
MyVallox 125B CFi RA12	4128115	7912234
MyVallox 125B CFi LA12	4128114	7912233
MyVallox 125C CFi RA12	4128119	7912235
MyVallox 125C CFi LA12	4128120	7912236
MyVallox 125D CFi RA12	4128123	7912237
MyVallox 125D CFi LA12	4128124	7912238

Item	Product number	HVAC code
MyVallox 125E CFi RA12	4128127	7912239
MyVallox 125E CFi LA12	4128128	7912240
MyVallox 125F CFi RA12	4128132	7912241
MyVallox 125F CFi LA12	4128133	7912242
MyVallox 125G CFi RA12	4128136	7912243
MyVallox 125G CFi LA12	4128137	7912244
MyVallox 125H CFi RA12	4128140	7912245
MyVallox 125H CFi LA12	4128141	7912246

ACCESSORIES THAT FIT ALL THE MODELS

The delivery of a MyVallox 125 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 Touch and MyVallox Control, and an external MyVallox carbon dioxide sensor, MyVallox humidity sensor and MyVallox VOC sensor.

Original Vallox filters are available for all MyVallox 125 CFi units. The same filter size fits all MyVallox 125 CFi models. Filter package no. 35 includes all the filters needed for one filter replacement.

MyVallox 125 CFi models	Product No.	HVAC code
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 35	4122005	7912213

MODEL-SPECIFIC ACCESSORIES

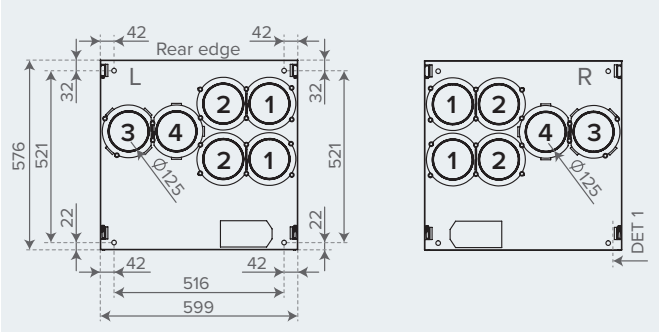
Ceiling mounting plate

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.

MyVallox 125A CFi	Product No.	HVAC code
Ceiling mounting plate Vallox 125A R	4121369	7912195
Ceiling mounting plate Vallox 125A L	4122638	7912196
Insulated attic floor penetration plate Vallox 125A R/L	4122063	7912203

Dimensions and duct outlets of the ceiling mounting plate



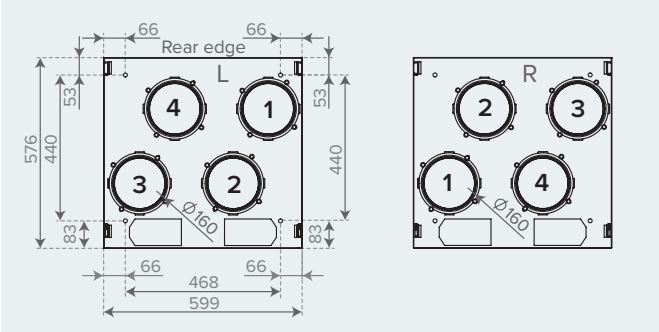
Attic floor penetration plate

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.

Please note that the ceiling mounting plate and insulated attic floor penetration plate are not available for the MyVallox 125B CFi model.

MyVallox 125C CFi	Product No.	HVAC code
Ceiling mounting plate Vallox 125C R/L	4122647	7912197
Insulated attic floor penetration plate Vallox 125C R/L	4122660	7912205

Dimensions and duct outlets of the ceiling mounting plate



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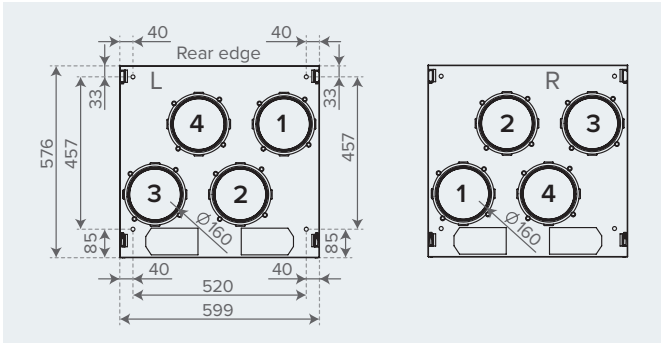
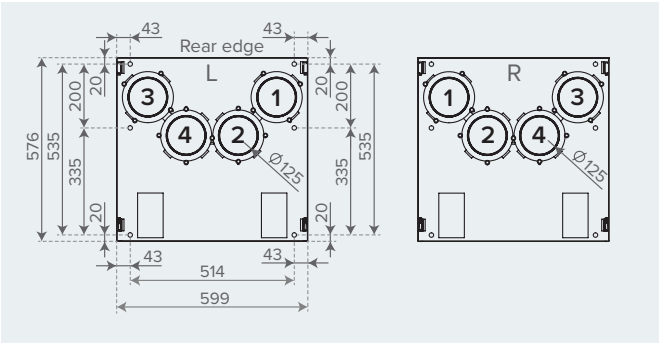
MyVallox 125D CFi	Product No.	HVAC code
Ceiling mounting plate Vallox 125D R/L	4122651	7912199
Insulated attic floor penetration plate Vallox 125D R/L	4122664	7912207

Dimensions and duct outlets of the ceiling mounting plate



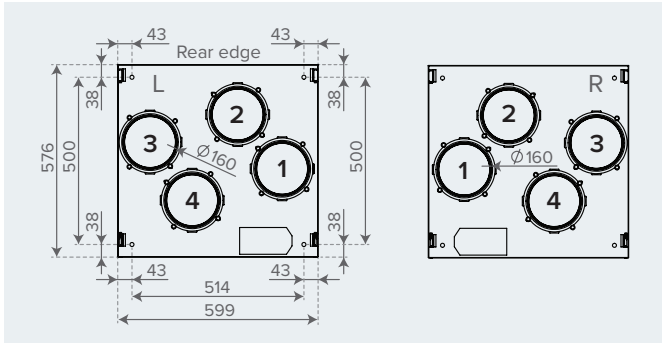
MyVallox 125E CFi	Product No.	HVAC code
Ceiling mounting plate Vallox 125E R/L	4122456	7912201
Insulated attic floor penetration plate Vallox 125E R/L	4122566	7912209

Dimensions and duct outlets of the ceiling mounting plate



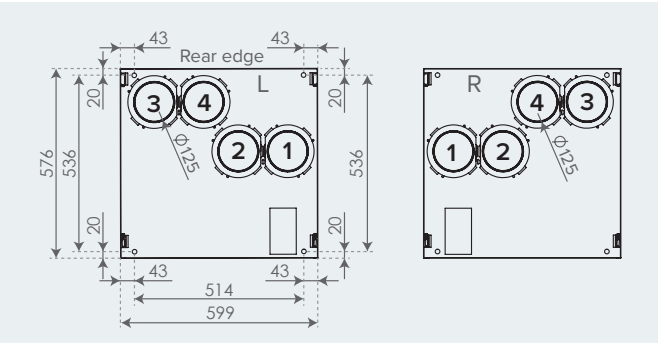
MyVallox 125F CFi	Product No.	HVAC code
Ceiling mounting plate Vallox 125F R	4122643	7912202
Ceiling mounting plate Vallox 125F L	4122789	7912211
Insulated attic floor penetration plate Vallox 125F R	4122656	7912210
Insulated attic floor penetration plate Vallox 125F L	4122791	7912212

Dimensions and duct outlets of the ceiling mounting plate



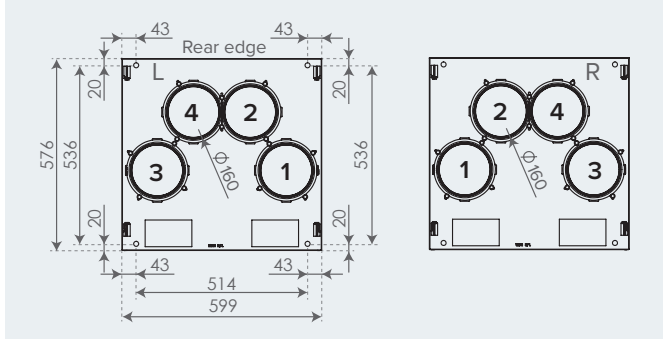
MyVallox 125G CFi	Product No.	HVAC code
Ceiling mounting plate Vallox 125G R	4123868	7912217
Ceiling mounting plate Vallox 125G L	4123884	7912218
Insulated attic floor penetration plate Vallox 125G R	4123896	7912219
Insulated attic floor penetration plate Vallox 125G L	4123914	7912220

Dimensions and duct outlets of the ceiling mounting plate



MyVallox 125H CFi	Product No.	HVAC code
Ceiling mounting plate Vallox 125H R/L	4124372	7912224
Insulated attic floor penetration plate Vallox 125H R/L	4125051	7912225

Dimensions and duct outlets of the ceiling mounting plate



MOUNTING ON THE WALL

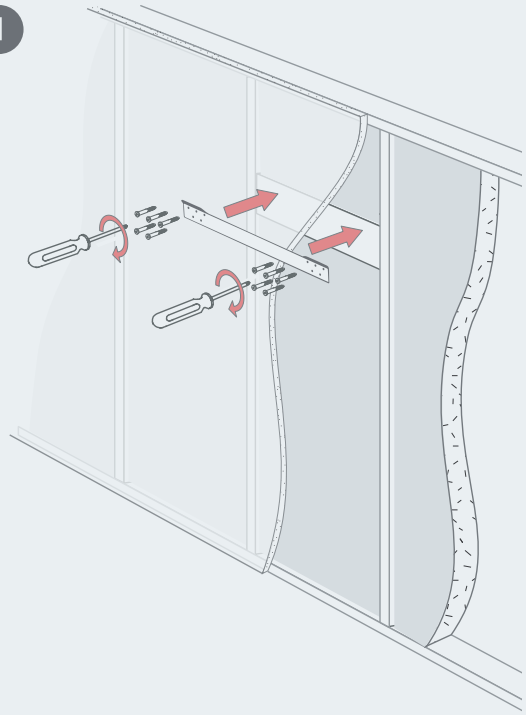
The minimum distance between the top of the unit and the finished ceiling surface is 30 mm. Please note that when using the wall bracket, the unit rises 10 mm higher than the final height.

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.

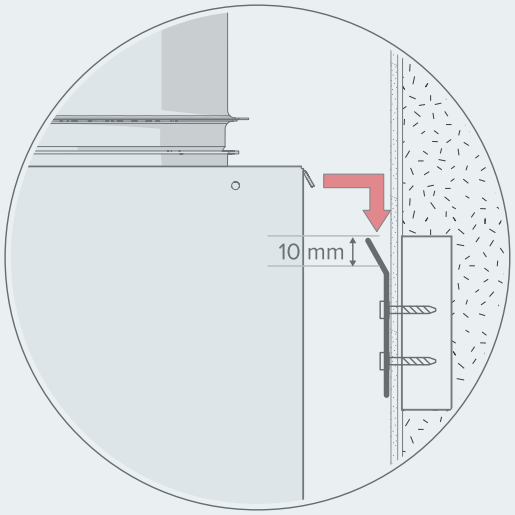
Avoid mounting the unit on a hollow, echoing partition wall or on a bedroom wall, or prevent the conduction of sound.

When installing the unit, reserve a space of at least 500 mm in front of the unit for servicing purposes.

1



2



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MOUNTING ON THE CEILING

Installing the ventilation unit to the ceiling mounting plate

MyVallox 125 CFi can be equipped with an optional ceiling mounting plate.

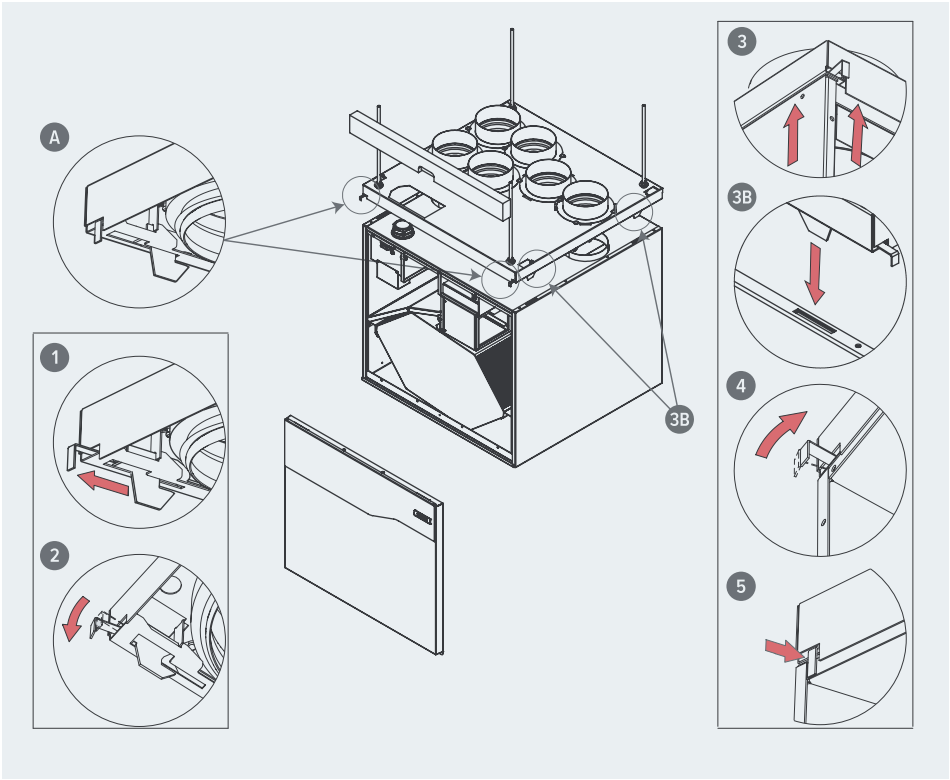
1. Fasten the M8 thread bars on the rafter frames or other frame structure and fasten the nuts onto the bars.
2. Lift the ceiling mounting plate in place.
3. Push a rubber damper and a washer to each thread bar.
4. Adjust the nuts so that the ceiling mounting plate is level.
5. Check that the condensate 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.

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.

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).



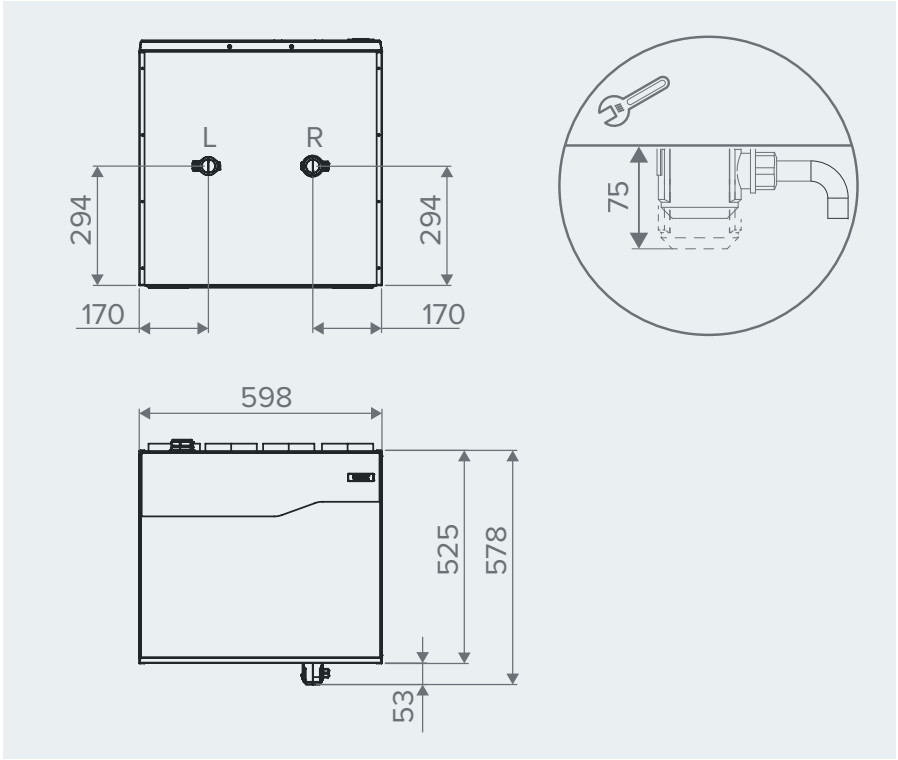
Attic floor penetration plate

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

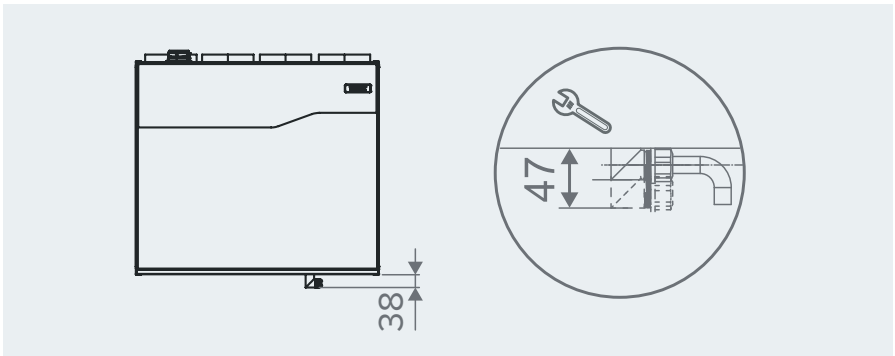
The attic floor penetration plate is installed at the same level as the rear wall of the ventilation unit. The minimum distance of the attic floor penetration plate from the rear wall is 10 mm, and the width varies depending on the model. Follow the model-specific instructions on the penetration plate.

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)



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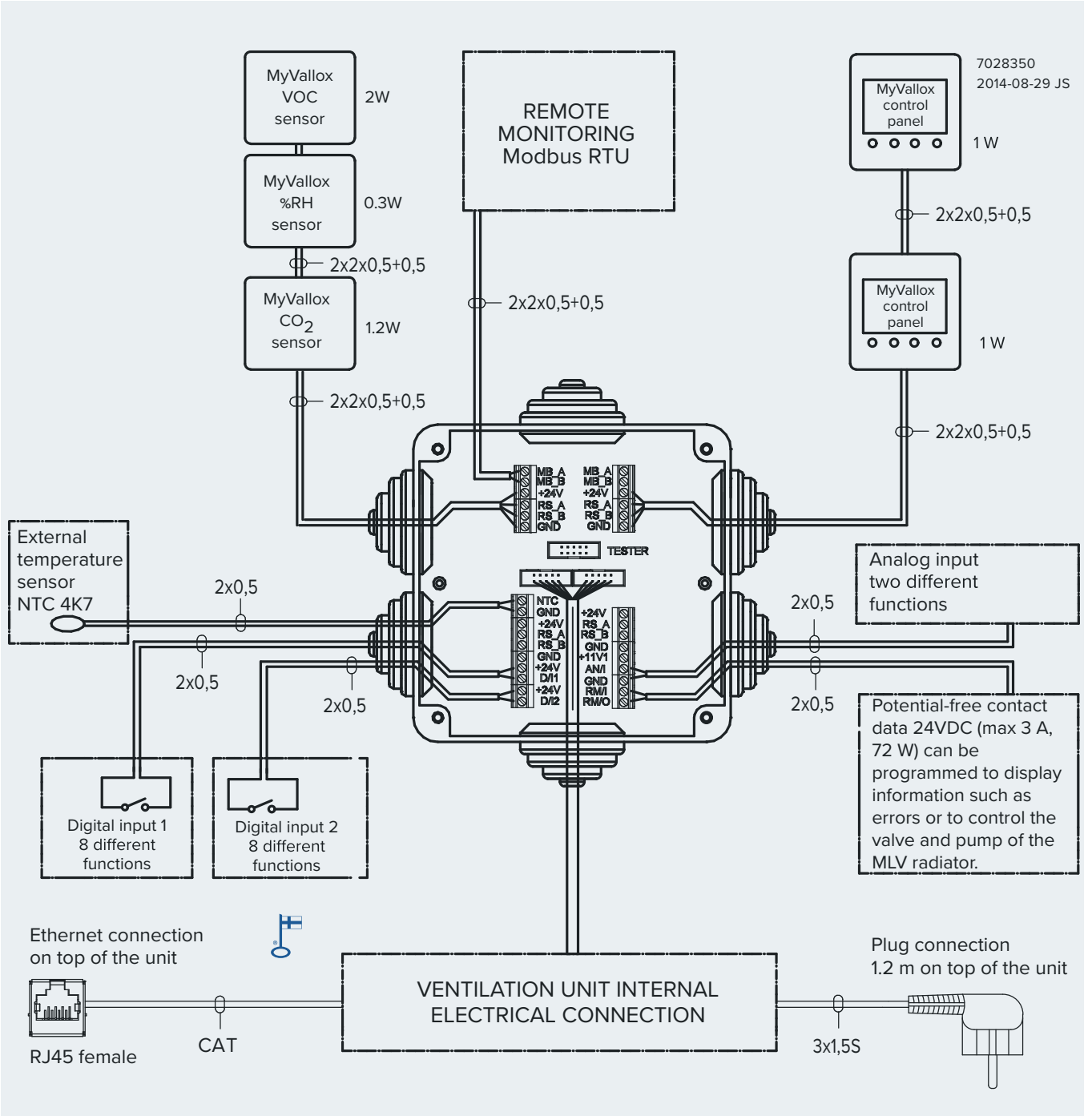
EXTERNAL ELECTRICAL CONNECTION



POWER SUPPLY	
Maximum	≤6 W
MyVallox Control	1 W
MyVallox Touch	0.5 W
%RH sensor	0.3 W
CO_2 sensor	1.2 W
VOC sensor	2 W
External actuator or damper motor of the unit that receives feed from the relay	
Voltage	24 VDC

MB_A	External Modbus A signal
MB_B	External Modbus B signal
+24 V	+24 V 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	24 V relay input
RM/O	24 V relay output

Points to consider in a ventilation renovation and choosing the right MyVallox 125 CFi model.

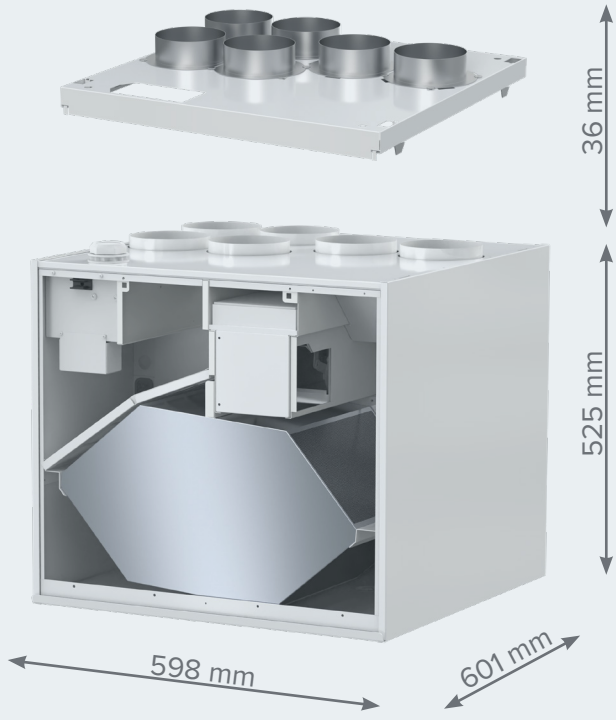
Ensure adequate air volumes

You may use the air volumes of the old unit as a starting point, but you should also check a few things:

- Were the air volumes of the old unit correctly designed? For instance, in the 1980s, the unit and/or ducts could be undersized, particularly with respect to today's needs.
- Have extensions been built to the house or have wet rooms been added, making the air volumes of the old unit are insufficient?
- Keep in mind that if only the ventilation unit is replaced, there is no obligation to fulfil the current air volume guidelines. If work subject to a building permit is carried out in connection with the renovation, it is possible that the ventilation system must also meet the current requirements.
- To determine the suitable air volumes, it is advisable to use the services of a ventilation professional. Remember that a professional must readjust the air volumes also after the replacement of the ventilation unit.

Check the duct outlets and the dimensions of the frame of the unit

- Check the handedness of the unit, the number of duct outlets as well as the diameter and locations of the ducts in the unit's duct outlet or ceiling part.
- If the old unit has outlet collars with rubber seal rings (male), a duct connector is needed for the duct outlets to connect the ducts to the unit.
- Duct connectors are also needed for connecting the ceiling mounting plate to the ducts.
- The external dimensions of the new unit may differ from those of the old one. Ensure that there is enough room for installation!
- Check whether the vertical space allows the use of a ceiling mounting plate that makes the installation easier.



The service space in front of the ventilation unit must be at least 500 mm.

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Improve the insulation and sound attenuation of the ducts if necessary

Even though the duct outlets are located similarly as the duct outlets of the old unit, it is advisable to check the condition of the insulation of the duct when replacing the unit:

- Remember that the exhaust air duct must have condensate insulation over the entire length inside the vapour barrier.
- If the exhaust air duct is difficult to insulate, a wall-mounted air blow-out is worth considering.

When replacing a ventilation unit, consider whether you need better sound attenuation:

- If the noise from the valves is disturbing, replacing the unit will not solve the problem. Instead, silencers should be installed in the ducts or old silencers replaced with ones that dampen the noise of the new unit more efficiently.
- The DC fans of MyVallox 125 CFi models have a different sound than the old AC fans, which means that different frequency bands are emphasised. The type of the silencer must correspond to the fan noise by frequency band. This is not necessarily the case with old silencers, even long ones.

An example of fan noise into the supply air duct by frequency band (MyVallox 125 CFi, 40 l/s, 75 Pa)

	63	125	250	500	1000	2000	4000	8000	Hz	Total dB	Total dB (A)
Supply air duct	68	64	63	52	54	45	37	29	**dB**	71	59

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

Also take other differences into account

- MyVallox 125 CFi has no liquid circulation post-heating radiator, as modern heat recovery cells heat the supply air efficiently enough, so that post-heating is not needed, except during the coldest hours of the year.
- MyVallox 125 CFi does not have a pre-heating/cooling radiator that could be connected to the geothermal heat collection circuit (cf. Digit 2 MLV), but it can be used to control a separate Vallox MLV duct radiator.
- If a so-called circulating air duct has been connected to an old ventilation unit (from above the fireplace, for instance), it must be plugged or connected to the supply air duct.
- MyVallox 125 CFi comes with a **MyVallox** control panel. A NOMAK cable must be installed between the control panel and the unit.
- MyVallox 125 CFi can also be controlled with a cooker hood (Vallox X-Line PTXP MC, Vallox X-Line PTXPA MC or Vallox Delico PTD EC), in which case air exits the cooker hood through the ventilation unit. In connection with the replacement of the ventilation unit, it is also possible to install a separate cooker hood that will remove cooking smells more efficiently directly out of the apartment. In this case, a general extraction valve must be installed in the kitchen.

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