

MyVallox Control










Vallox **096** MV

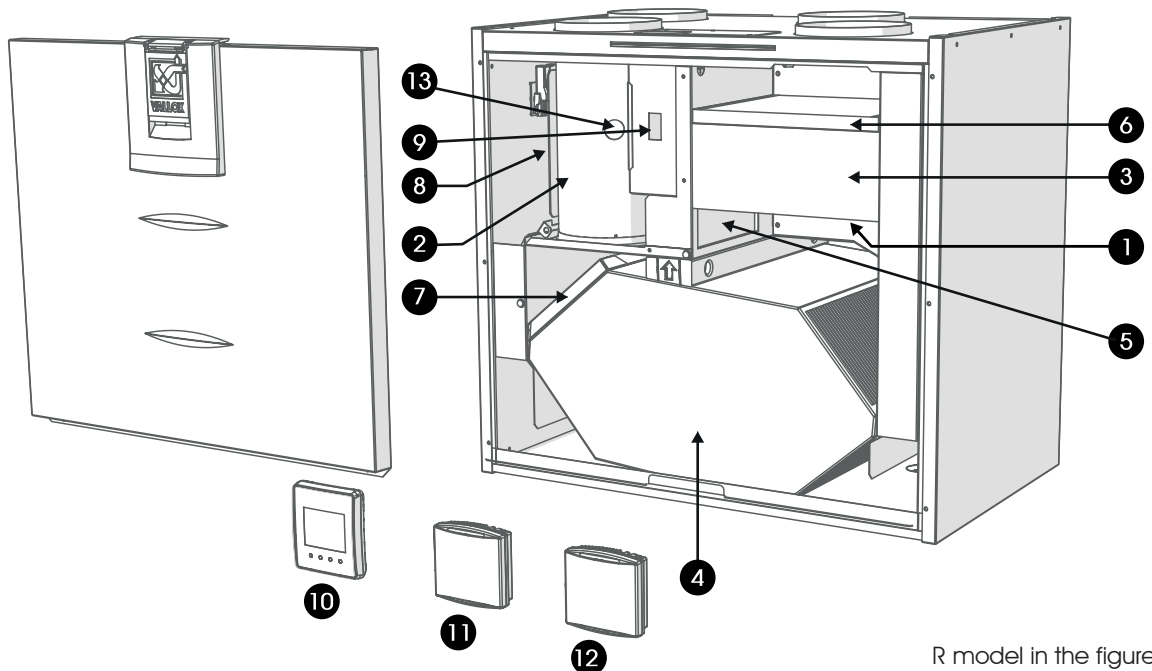
Vallox **110** MV

Vallox **145** MV



Operating, maintenance and technical instructions for the Vallox ventilation unit

- | | | |
|---|---|----|
|  | EXTRACT AIR FAN (BEHIND THE PROTECTIVE COVER) | 1 |
|  | SUPPLY AIR FAN (BEHIND THE EXTRACT AIR DUCT) | 2 |
|  | OUTDOOR AIR FILTER F7 | 3 |
|  | HEAT RECOVERY CELL | 4 |
|  | SUMMER / WINTER FLAP | 5 |
|  | OUTDOOR AIR FILTER G4 | 6 |
|  | EXTRACT AIR FILTER G4 | 7 |
|  | POST-HEATING RADIATOR (BEHIND THE EXTRACT AIR DUCT) | 8 |
|  | SAFETY SWITCH | 9 |
| | CONTROL PANEL | 10 |
| | CARBON DIOXIDE SENSOR | 11 |
| | HUMIDITY SENSOR | 12 |
| | INTERNAL HUMIDITY SENSOR | 13 |

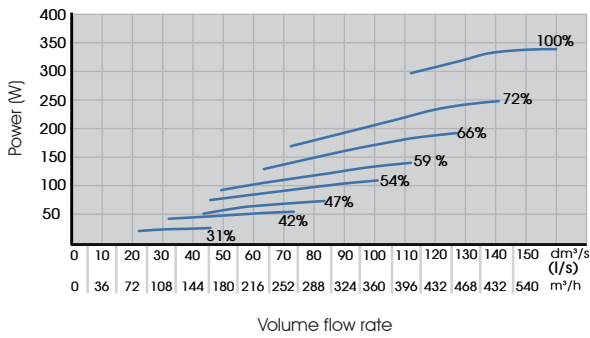


R model in the figure

TECHNICAL SPECIFICATIONS

Product codes Vallox 145 MV R Vallox 145 MV L	Vallox number 3475650 3475750	HVAC code 7912049 7912050	Additional heating radiator	Power, 1500 W
Air volumes	Supply Air Extract Air	155 l/s, 558m³/h, 100 Pa 150 l/s, 540 m³/h, 100 Pa	Fans	Supply Air Extract Air
Electrical connection		230V, 50Hz 11.9 A (power plug)	Operating efficiencies	Annual efficiency Supply air efficiency Specific Fan Power (SFP)
Enclosure protection degree		IP 34	Filters	Supply air Extract air
Post-heating radiator		Power, 900 W	Heat recovery by-pass	Automatic
The preheating radiator		-	Weight	88.0 kg

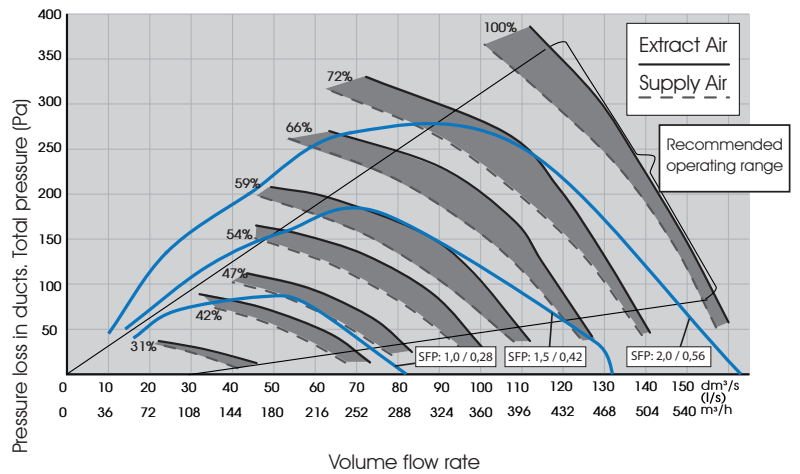
FAN INPUT POWER



SFP rate (Specific Fan Power) recommended value <2.0 (kW m³/s)

$$SFP = \frac{\text{Input power (total W)}}{\text{Measurement airflow (extract l/s)}}$$

SUPPLY / EXTRACT AIR VOLUMES

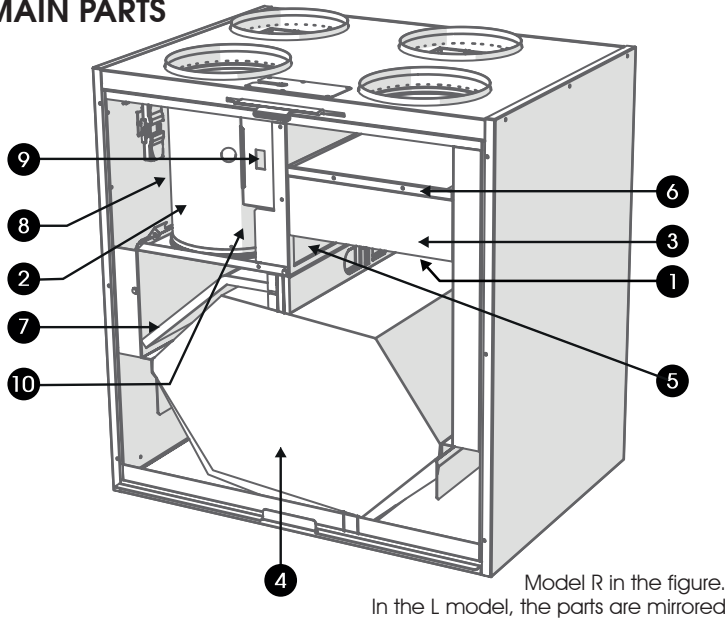


SOUND VALUES

Adjustment position	Sound power level in supply air duct (one duct) by octave band L _w , dB							Sound power level in extract air duct (one duct) by octave band L _w , dB								
	31 %	42 %	47 %	54 %	59 %	66 %	72 %	100 %	31 %	42 %	47 %	54 %	59 %	66 %	72 %	100 %
Air flow dm³/s (l/s)	36.2	56.3	67.3	80.7	92.9	105	116	128	40.5	63.8	73.8	87.9	98.8	110	122	136
Air flow m³/h	130.32	202.68	242.28	290.52	334.44	378	417.6	460.8	145.8	229.68	265.68	316.44	355.68	396	439.2	489.6
Medium frequency of the octave band Hz	63	41	50	56	58	59	64	67	69	35	45	49	51	51	56	58
	125	45	53	56	59	62	65	68	71	33	43	46	49	49	54	56
	250	50	54	57	61	63	66	68	70	24	32	37	40	40	45	47
	500	48	53	56	59	60	63	65	68	37	43	46	48	48	52	54
	1000	45	54	57	60	62	64	66	67	30	36	39	42	42	46	48
	2000	35	46	50	55	58	61	64	66	22	32	34	38	38	43	45
	4000	26	41	46	51	54	58	60	63	16	20	22	25	25	31	33
8000	21	32	38	45	49	53	56	59	21	21	21	21	21	24	26	
L _w , dB	54	60	64	67	69	72	74	77	41	49	53	55	57	60	61	
L _{WA} , dB(A)	49	57	60	63	66	68	70	73	36	42	45	48	50	52	54	
Sound pressure level dB (A) coming from the unit through the envelope in the rooms where the unit has been mounted (10m² sound absorption)																
AIR FLOWS (supply/extract)																
Adjustment position	31%		42%		47%		54%		59%		66%		72%		100%	
Air flow dm³/s (l/s)	36/39		56/62		68/74		81/89		92/98		105/113		116/126		131/142	
Air flow m³/h	129.6/140.4		201.6/223.2		244.8/266.4		291.6/320.4		331.2/352.8		378/406.8		417.6/453.6		471.6/511.2	
L _{PA} , dB (A)	27		34		37		40		42		45		47		50	

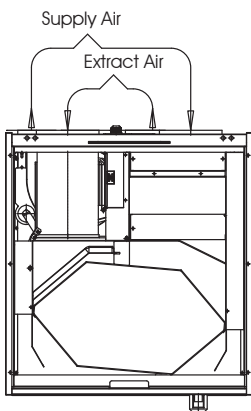
TECHNICAL SPECIFICATIONS 145 MV

MAIN PARTS



- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Extract air fan (behind the protective cover) 2. Supply air fan (behind the extract air duct) 3. Outdoor air filter F7 4. Heat recovery cell 5. Summer / winter flap | <ol style="list-style-type: none"> 6. Outdoor air filter G4 7. Extract air filter G4 8. Post-heating radiator (behind the extract air duct) 9. Safety switch 10. Additional heating radiator (behind the extract air duct) |
|---|---|

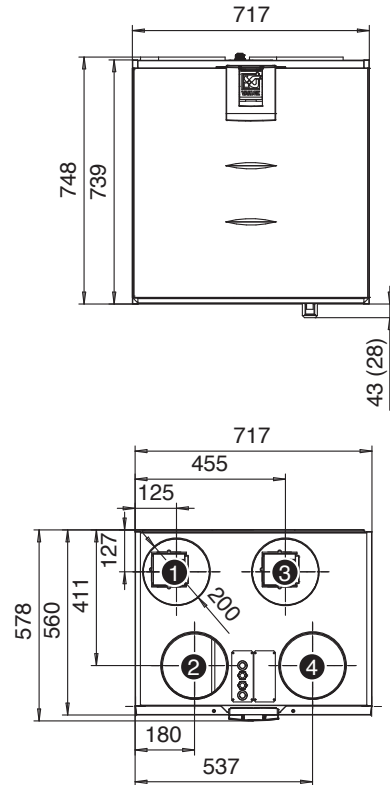
MEASUREMENT POINTS



Measurement points after the connection outlet. Fan curves indicate the total pressure available for duct losses.

DIMENSIONS AND DUCT OUTLETS

Dimensions



DUCT OUTLETS

Model R

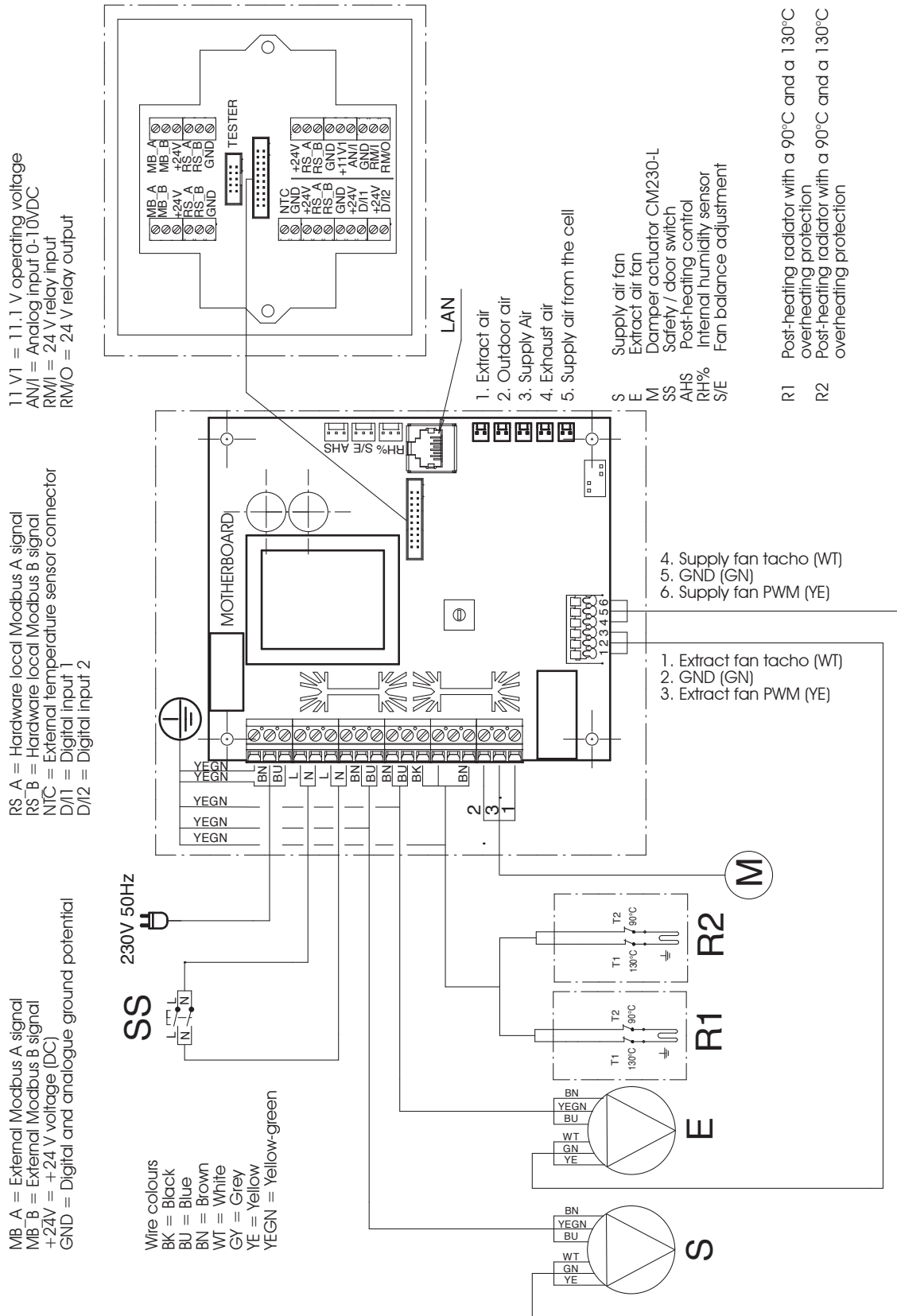
Inner diameter of the female outlet collar $\varnothing 200$ mm

1. Supply air to the apartment
2. Exhaust air from the apartment to the unit
3. Exhaust air out
4. Outdoor air to unit

Model L

Inner diameter of the female outlet collar $\varnothing 200$ mm

1. Exhaust air out
2. Outdoor air to unit
3. Supply air to the apartment
4. Exhaust air from the apartment to the unit

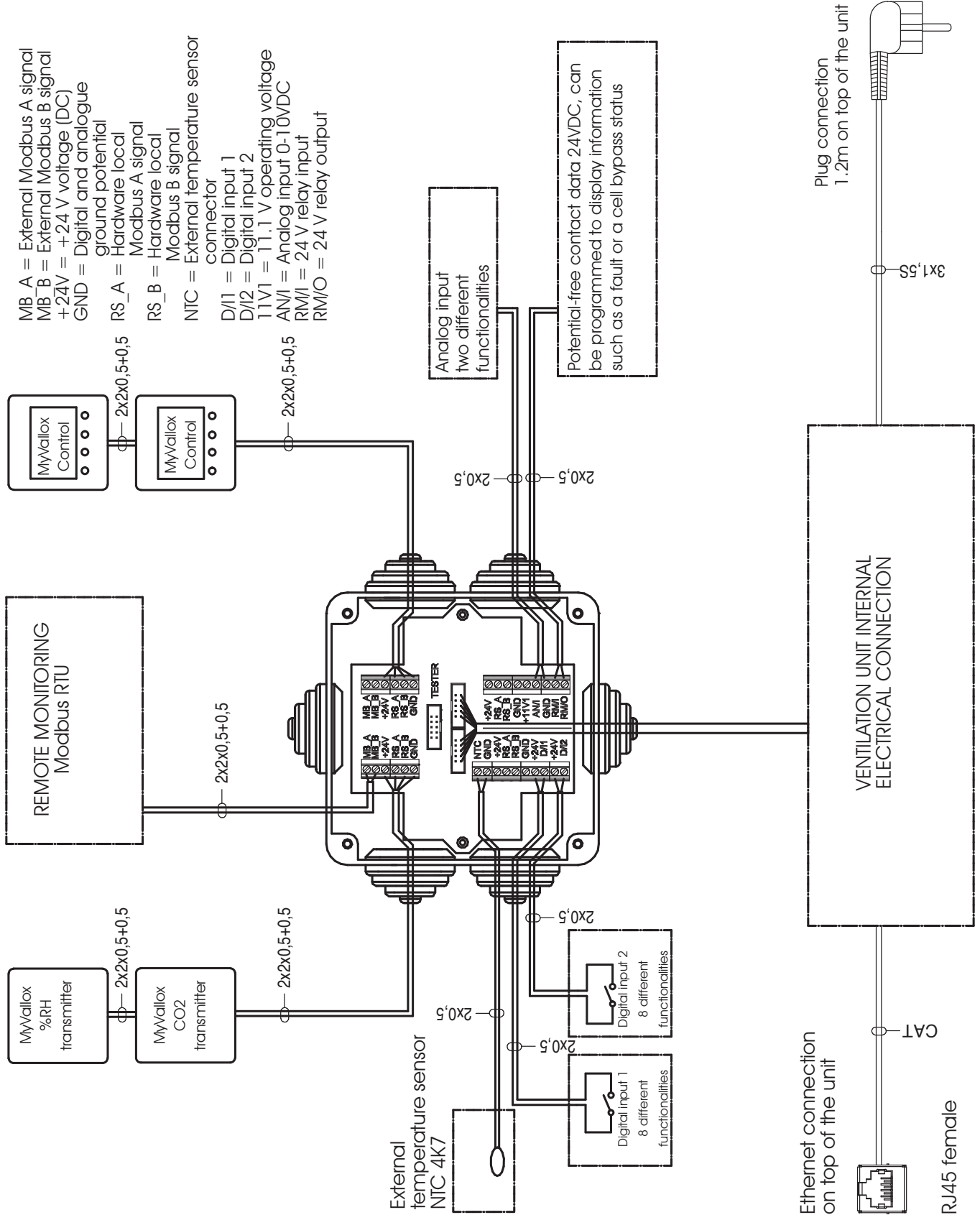


EXTERNAL ELECTRICAL CONNECTION VALLOX MV 096, MV 110 AND MV 145

Vallox
145_{MV}

Vallox
110_{MV}

Vallox
096_{MV}

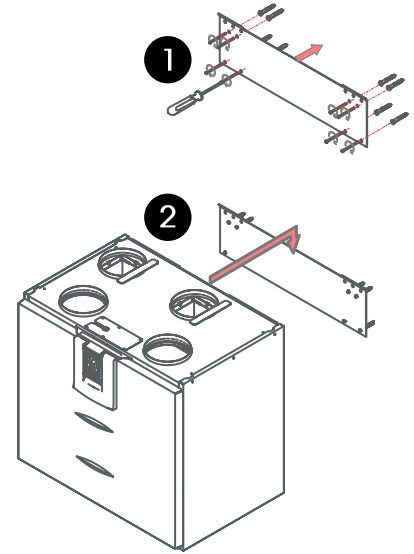


Vallox
096_{MV}Vallox
110_{MV}Vallox
145_{MV}**MOUNTING****WALL MOUNTING**

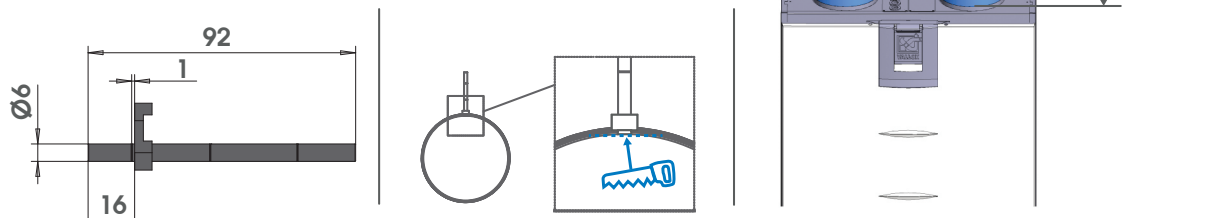
Note the following before mounting:

- Mount the Vallox 096 MV / 110 MV in a place where the temperature does not fall below +10°C.
- Avoid mounting the unit on a hollow, echoing partition wall or on a bedroom wall, or prevent the conduction of sound.
- The minimum distance between the top of the unit and the finished ceiling surface is 30 mm. Note that the unit rises during mounting 10 mm higher than the final height.
- Without protective closure, the unit must be located in a place where the noise does not disturb anyone (storage, technical rooms, etc.).

Mount the Vallox 096 MV / 110 MV on the wall with a mounting plate, as shown in the adjacent figure. Make sure that the unit is horizontally level after mounting.

**MEASURING TUBES**

The accessory bag delivered with the unit includes 4 airflow measuring tubes. You can mount these tubes on the ducts to make ventilation adjustment easier.

**NOTE**

Mount 145 MV on the floor rack, or on the wall with a mounting plate.

CEILING MOUNTING BY USING THE CEILING MOUNTING PLATE

Models 096 MV and 110 MV can be equipped with an optional ceiling mount plate. Attach the ceiling mounting plate:

- To the ceiling with M8 thread bars so that they stand the weight of the unit.
- Horizontally level, as the plate determines the straightness of the unit.

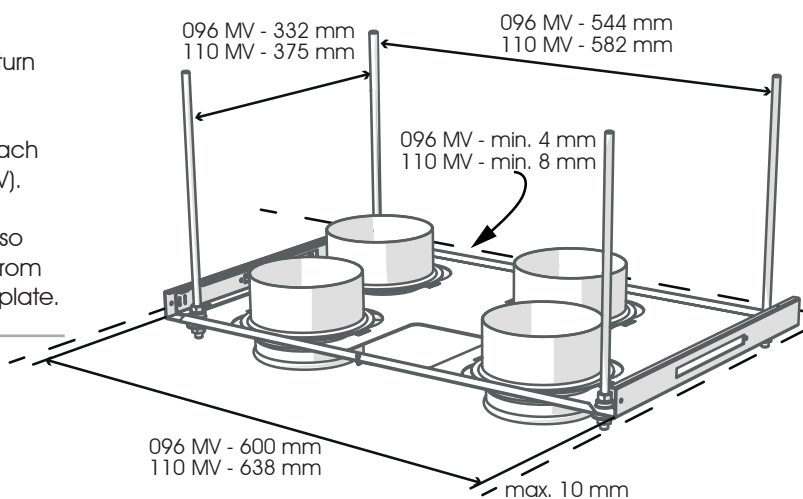
Insulate the outdoor air and exhaust air duct against condensation also between the unit and the ceiling mounting plate.

MOUNTING

Vallox
145_{MV}Vallox
110_{MV}Vallox
096_{MV}

MOUNTING THE CEILING MOUNTING PLATE

1. Attach the thread bars to the ceiling and turn the nuts to the bars.
2. Lift the ceiling mounting plate in place.
3. Push a rubber damper and a washer to each thread bar to the cup of the plate (096 MV).
4. Turn the nut.
5. Shorten the lower ends of the thread bars so that they will be at no more than 10 mm from the lower surface of the ceiling mounting plate.

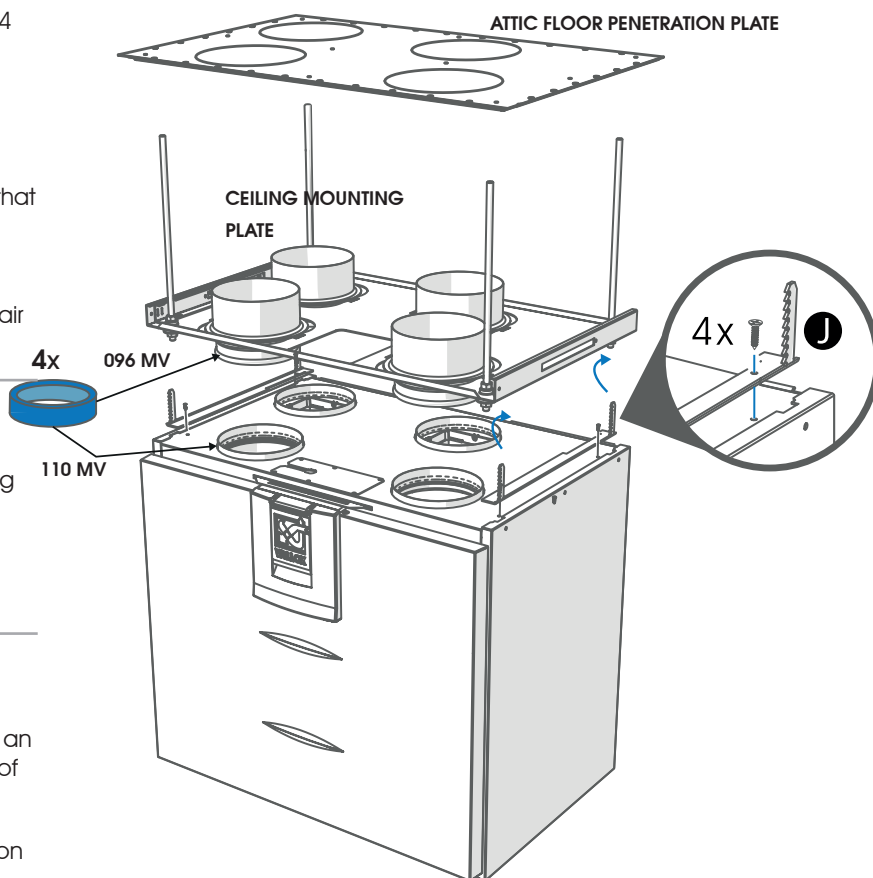


WARNING

The machine is very heavy. Do not perform this procedure alone.

MOUNTING THE VENTILATION UNIT TO THE CEILING MOUNTING PLATE

1. Mount the locking washers (J) delivered with the ceiling mounting plate in place with the 4 screws.
2. Lift the unit and take the wires through the opening in the ceiling mounting plate.
3. Put the locking devices to the top of the ventilation unit at the openings in the ceiling mounting plate and lift upwards. Make sure that the unit is locked in place.
4. Check that the condensing water insulation between the unit and the ceiling mounting plate is in place in the exhaust and outdoor air duct.



TIP

You can detach the unit from the ceiling mounting plate by pulling the spring-loaded moulding to the direction shown by the arrow (more detailed information provided with the ceiling mounting plate).

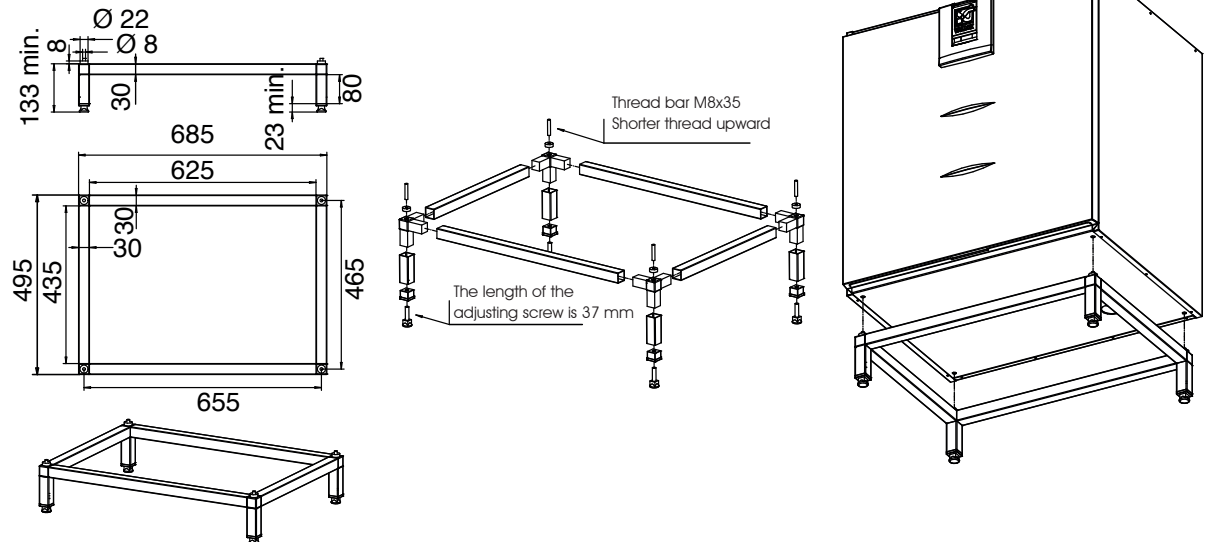
ATTIC FLOOR PENETRATION PLATE

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 minimum distance of the attic floor penetration plate from the rear wall is 5 mm. The minimum distance of the attic floor penetration plate from the side walls is 15 mm.

Vallox
096_{MV}Vallox
110_{MV}Vallox
145_{MV}**VALLOX 145 MV BASE**

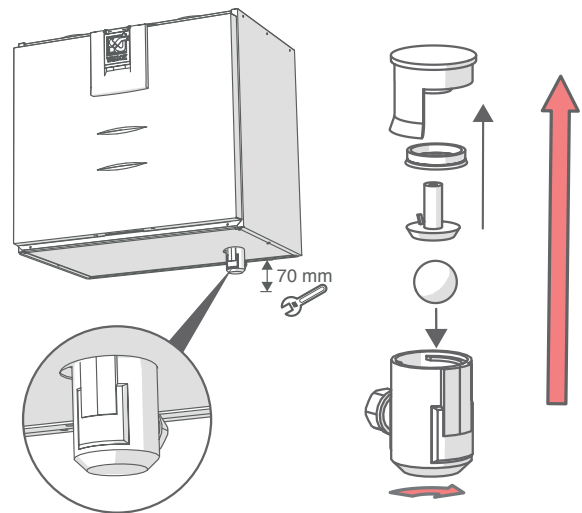
The base is optional. Adjust the base with adjusting legs to make it straight. Remove the (4) rubber plugs at the bottom of the unit. Place the unit on top of the base so that the bars of the base fit in the holes at the bottom of the unit.

**CONDENSING WATER**

In the heating season, the extract air humidity condenses to water. Water formation may be abundant in new buildings, or if the ventilation is low, compared to the humidity production of residents. Condensed water must be able to get out of the unit without obstruction. Check in conjunction with maintenance, for example, during the autumn before the heating season begins, that the condensing water outlet on the bottom pool is not clogged and that there is no leakage. You can check it by pouring a little water into the pool. Clean, if necessary. Water must not be allowed to enter the electrical system.

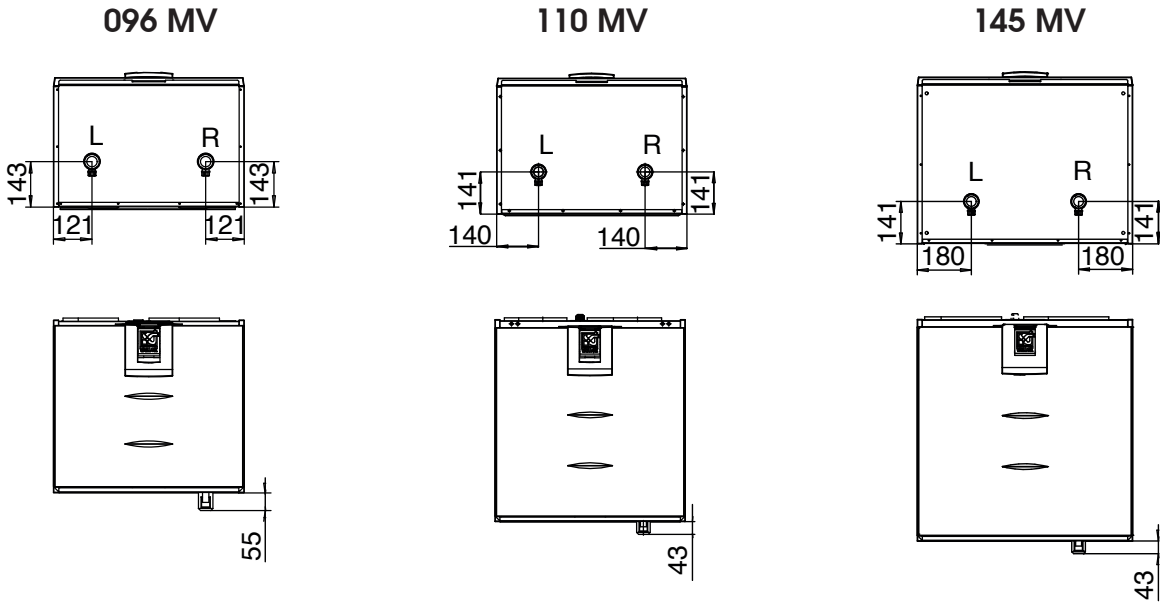
MOUNTING THE CONDENSING WATER OUTLET

1. Push the main body of the condensing water outlet from above through the hole at the bottom plate of the ventilation device.
2. Push the tightening pin from below to the main body.
3. Place the valve ball in the main body of the condensing water outlet.
4. Attach the housing to the condensing water outlet.

**NOTE**

The standard SilentKlick condensing water outlet installation requires 70mm of free space below the ventilation unit.

CONDENSING WATER DIMENSIONING FIGURES



ALTERNATIVE WATER SEAL, WHICH CAN BE INSTALLED IN LOW SPACES



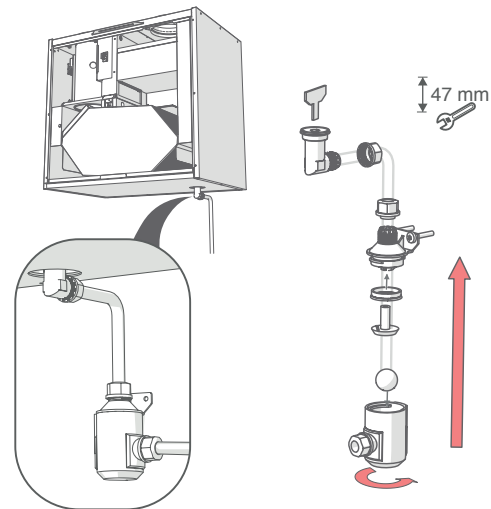
NOTE

If you use the alternative condensing water outlet, move the gasket ring and the locking part to the tube joint part that will be mounted on the wall.

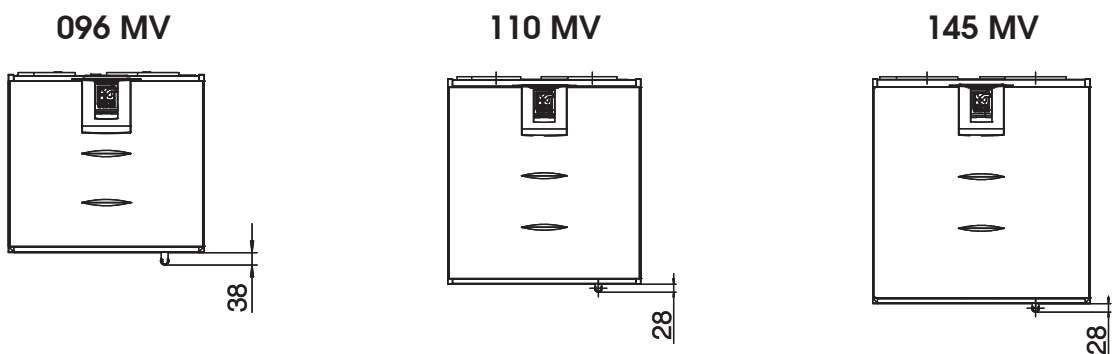


NOTE

The alternative condensing water outlet installation requires 47mm of free space below the ventilation unit.



ALTERNATIVE WATER SEAL, DIMENSIONING FIGURES



DECLARATION OF CONFORMITY

Manufacturer: VALLOX OY

Address: Myllykyläntie 9-11
FIN-32200 LOIMAA
FINLAND

Telephone number: +358 10 7732 200
Fax: +358 10 7732 201

Description of the unit: Ventilation unit with heat recovery


Model: Vallox 145SE R, Vallox 145SE L, ValloPlus 510SE R, ValloPlus 510SE L, Vallox 145MV R, Vallox 145MV L, ValloPlus 510MV R, ValloPlus 510MV L

Declares that the ventilation unit for supply and extract air, equipped with heat recovery and operating as part of a ventilation system has been designed and manufactured to the following specifications:

1. Low Voltage Directive (2006/95/EC)
- EN 60335-1:2012
2. EMC Directive (2004/108/EC)
- EN 61000-6-1:2007, EN 61000-3-2:2006 + A1:2009 + A2:2009,
EN 61000-3-3:2008, EN 61000-6-3:2007 + A1:2011

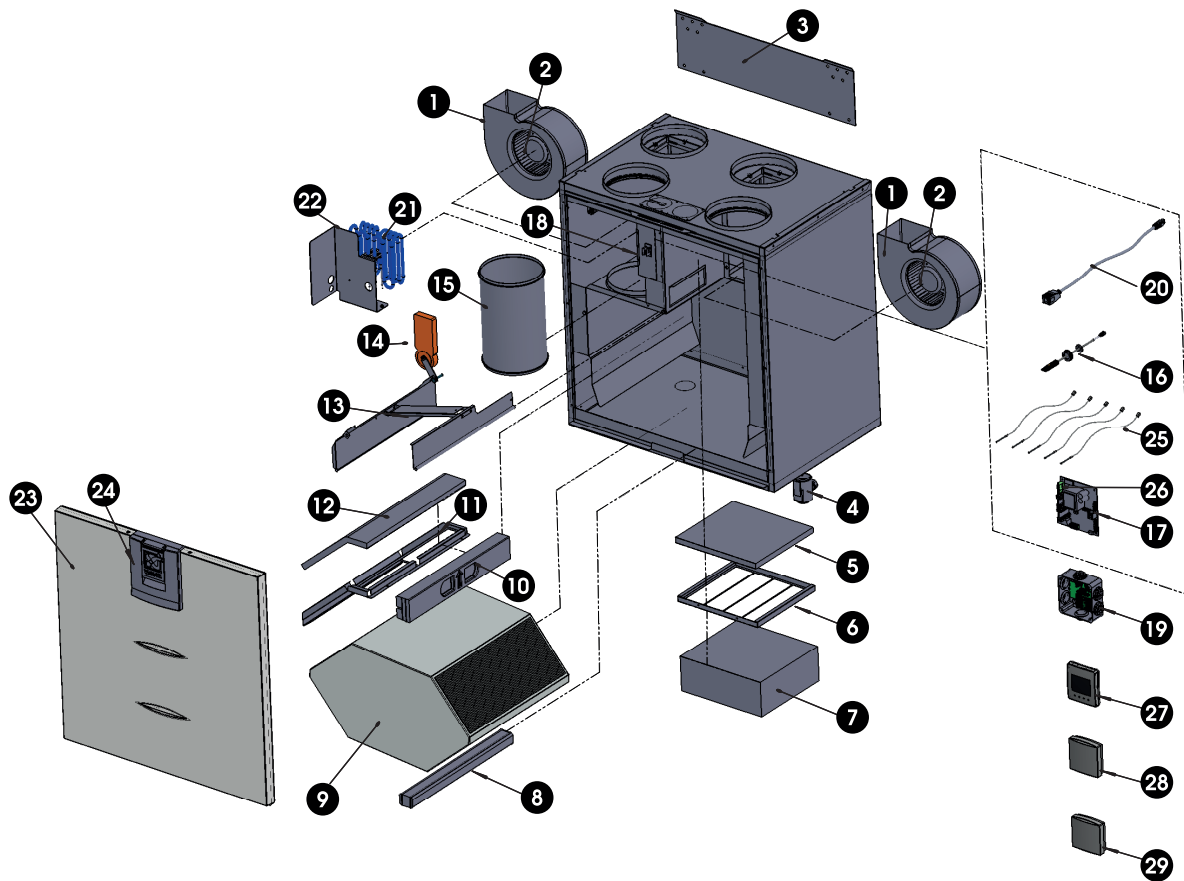
This is the original Declaration of Conformity

Loimaa, 23rd January 2015



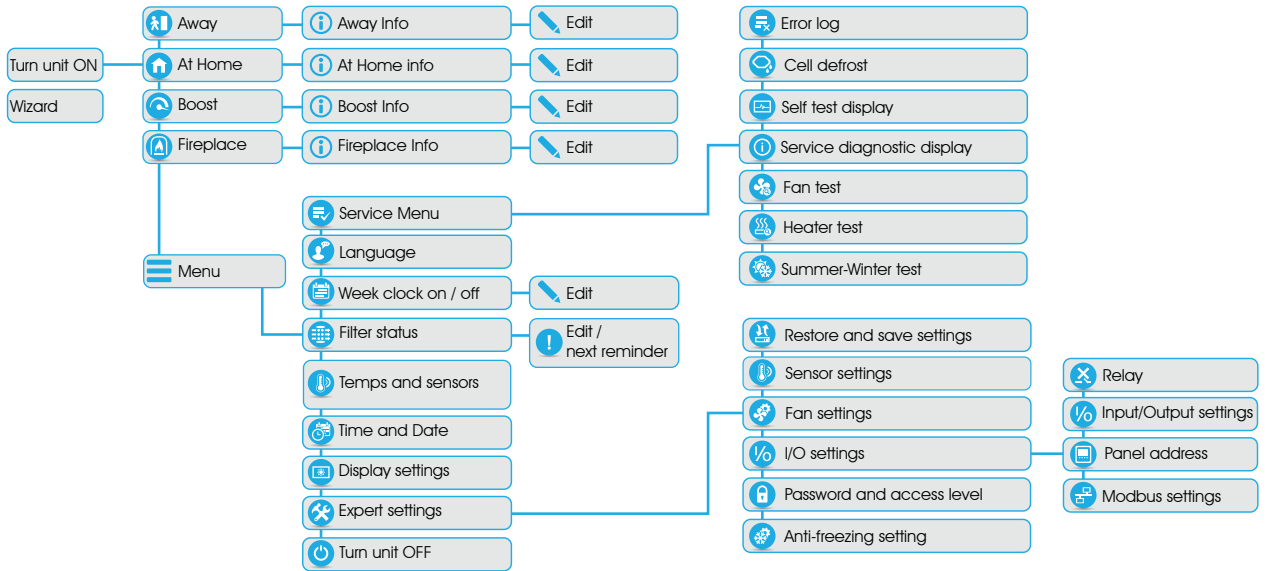
Jukka-Pekka Korja, managing director

EXPLODED VIEW AND PARTS LIST
VALLOX 145 MV

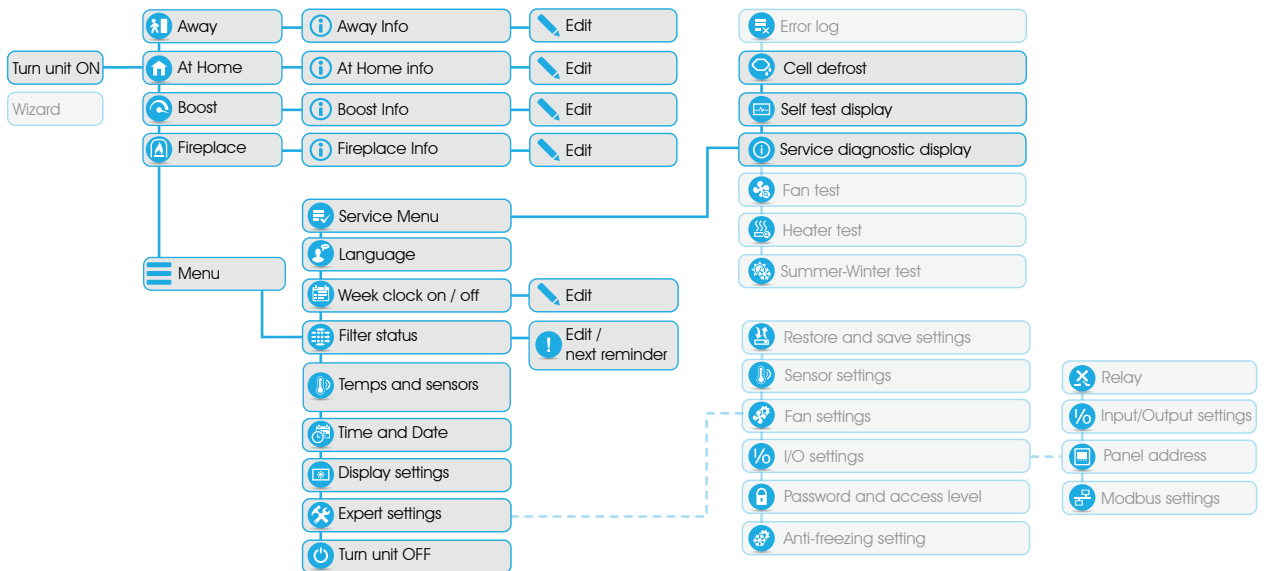


NO.	PART	CODE	NO.	PART	CODE	NO.	PART	CODE
1.	Fan assembly	1109200	13.	The bypass duct assembly		22	Post-heater 900W	
2.	Fan motor	935285		R model unit	3475900		R model unit	942211
3.	Wall mounting plate	3482100		L model unit	3475901		L model unit	942210
4.	Water seal	3292500	14.	Damper motor	930620	23	Door assembly	3476000
5.	G4 coarse filter	978046	15.	Extract air outlet	985035	24	Door latch assembly	3355900
6.	Filter stand	3466600	16.	Internal humidity sensor	946148	25	NTC sensor kit	3482300
7.	F7 filter	978158	17.	Motherboard	949032	26	Glass tube fuse 5x20	952484
8.	Lower support for HR cell	3469000	18.	Safety switch	948377		80mA, slow	
9.	HR cell	933270	19.	Connection box	3526700	27	Control panel	949033
10.	Upp support for HR cell	3468900	20.	RJ45 extension cable	952196	28	Humidity sensor (optional)	946149
11.	Filter stand	3466500	21.	Additional heater 1500W	942220	29	Carbon dioxide sensor (option)	949111
12.	G4 coarse filter	978047						

EXTENSIVE



NORMAL



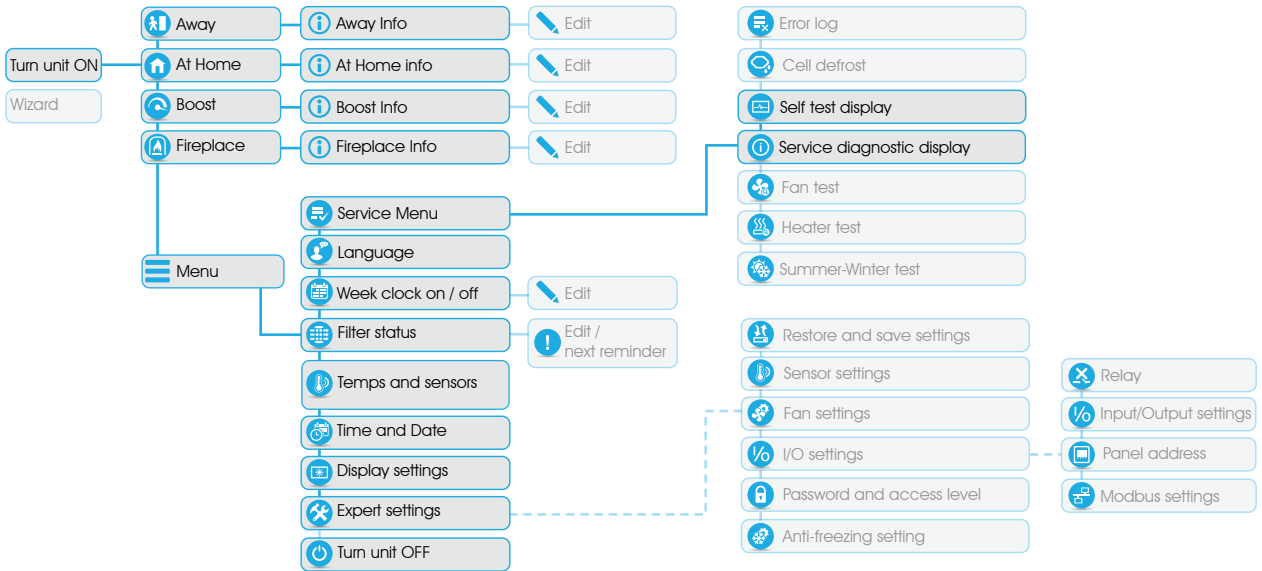
USER LEVEL DIAGRAMS

Vallox
145_{MV}

Vallox
110_{MV}

Vallox
096_{MV}

LIMITED



Vallox
096_{MV}

Vallox
110_{MV}

Vallox
145_{MV}



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