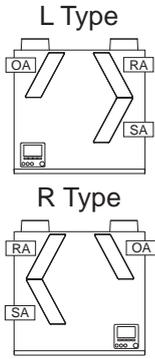


LOSSNAY HEAT RECOVERY VENTILATOR SYSTEM COMPONENT

Filter name	MODEL	MODEL CODE	Applicable model	Location to use	
Replacement filter	P-250F-E	5KB010	VL-250CZPVU-R-E/VL-250CZPVU-L-E	RA, OA	 <p>L Type</p> <p>R Type</p> <p>RA: Return Air OA: Outdoor Air SA: Supply Air</p>
	P-350F-E	5KB016	VL-350CZPVU-R-E/VL-350CZPVU-L-E		
Standard filter	P-250SF-E	5KB011	VL-250CZPVU-R-E/VL-250CZPVU-L-E	RA, OA SA	
	P-350SF-E	5KB017	VL-350CZPVU-R-E/VL-350CZPVU-L-E		
Medium efficiency filter	P-250MF-E	5KB012	VL-250CZPVU-R-E/VL-250CZPVU-L-E	RA, OA SA	
	P-350MF-E	5KB018	VL-350CZPVU-R-E/VL-350CZPVU-L-E		
PM2.5 filter	P-250PF-E	5KB013	VL-250CZPVU-R-E/VL-250CZPVU-L-E	RA, OA SA	
	P-350PF-E	5KB019	VL-350CZPVU-R-E/VL-350CZPVU-L-E		
NOx filter	P-250NF-E	5KB014	VL-250CZPVU-R-E/VL-250CZPVU-L-E	SA	
	P-350NF-E	5KB020	VL-350CZPVU-R-E/VL-350CZPVU-L-E		

* When a NOx filter and an optional dust catch filter (P-250/350SF-E, P-250/350MF-E, P-250/350PF-E) are used together, make sure to install a NOx filter on the SA side and a dust catch filter on the OA side.

* Install any of the filters other than NOx filter on the OA and RA side to protect the product.

Instruction Manual

For Customer

This filter is a part to replace the filter installed in Lossnay.

- Make sure to read this manual carefully before using the product.

Safety precautions

The types and levels of danger that may arise if the product is handled improperly are described with the warning symbols shown below.

WARNING

This applies to mishandling or misoperation of the product which may lead to a fatal or serious injury.

Before replacement, make sure to turn off the controller and the distribution panel circuit breaker.
Electric shock and burns could result if power is flowing.

Follow instructions

CAUTION

This applies to mishandling or misoperation of the product, which will lead to an injury or damage to your home, household effects, etc.

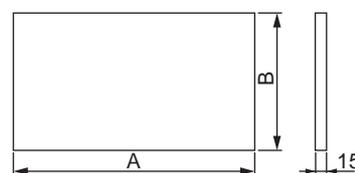
Always wear gloves during replacement.
Injury could result.

Securely install the parts.
Injury could result if the product falls.

Do not use an unstable stand for replacement.
Injury could result from falling over.

Follow instructions

Outline drawings and Materials



Unit: mm

MODEL	A	B		
P-250F-E	302	178		
P-250SF-E	306	177		
P-250MF-E				
P-250PF-E				
P-250NF-E	382	177		
P-350F-E			377	178
P-350SF-E			382	177
P-350MF-E				
P-350PF-E				
P-350NF-E				

Materials are shown below, please dispose properly according to the laws of each country.

MODEL	Main material
P-250/350F-E	PET, acrylic fiber
P-250/350PF-E	Polypropylene, polyester
P-250/350MF-E	
P-250/350SF-E	
P-250/350NF-E	Pulp

Filtration specification

MODEL	ISO16890: 2016	EN779: 2012
P-250/350F-E	Coarse 55%	G3
P-250/350SF-E	Coarse 90%	G4
P-250/350MF-E	ePM10 80%	M6
P-250/350PF-E	ePM2.5 50%	M6

P-250/350NF-E: Exclusion rate of NO₂ is 90%.

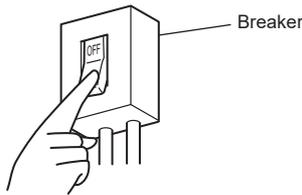
* The filtration specifications other than the specifications of P-250/350NF-E are results of tests conducted by third-party certification bodies and are not a guaranteed value.

* The filtration specifications of P-250/350NF-E are measured by the manufacturer and are not a guaranteed value.

Replacement method

1. Turn the power off

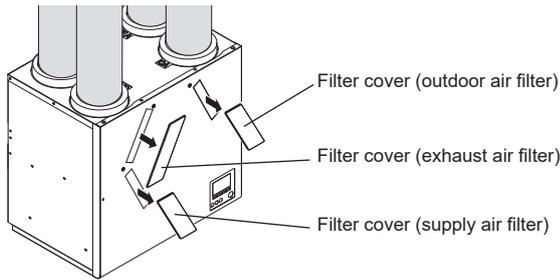
- 1) Turn the Lossnay off.
- 2) Shut off circuit breakers.



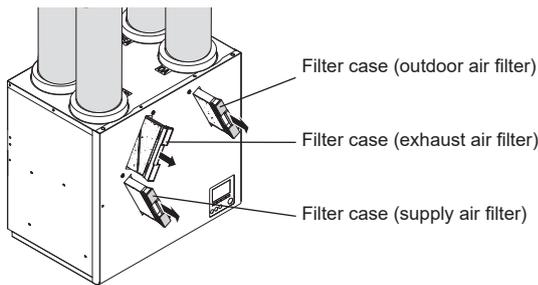
2. Remove the filters.

* The figure shows VL-350CZPVU-R-E.

- 1) Remove the filter covers where the filters are replaced.



- 2) Pull out the filter cases slowly.

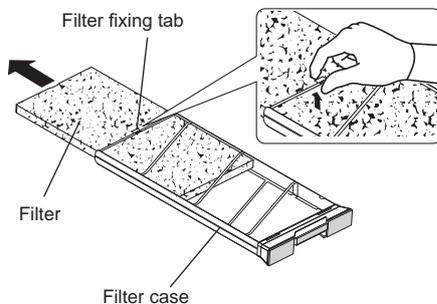


CAUTION

When removing filter cases, make sure to withdraw them slowly by using both hands. Otherwise, condensed water can drop from the inside.

- 3) Remove the filters from the filter cases.

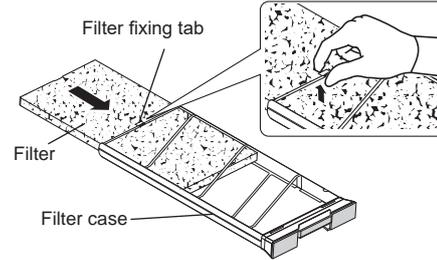
* By factory default, a filter is not inserted in the supply air filter case.



3. Install the filters.

Install the filter in the filter case in the reverse order of disassembly.

- When installing the filter in the filter case, insert the filter slowly by widening the filter fixing tab so that the filter is not deformed.



- Check that the filter is not stuck out of the filter case.

Reassembly and checking after replacement

CAUTION

After maintenance, install the parts securely.

Injuries could result if the product falls.

1. Install the removed filter case and filter cover on the unit.
2. After reassembling, press the ON/OFF button on the controller and check the following.
 - Check that the unit is not making any abnormal noises.
 - Check that the unit is blowing the air correctly.
 - Check that the air is not leaking from the installation part of the filter case.

Note:

- Depending on the use environment, condensation water, snow, and fog can adhere to the filters. These are not the problems of product functions and quality.
- Do not forget to install the filters. (Dirt can clog on the surface of the Heat exchanger, resulting in lowering the air volume.)
- Filters below are disposable and cannot be cleaned. Replacement intervals are different depending on the conditions of the air to use. Refer to the maintenance timing below to replace with new filters.

Type	Model name	Maintenance timing
Standard filter	P-250SF-E	One year
	P-350SF-E	
Medium efficiency filter	P-250MF-E	One year
	P-350MF-E	
PM2.5 filter	P-250PF-E	For SA installation: One year For OA and RA installations: Six months
	P-350PF-E	
NOx filter	P-250NF-E	Six months
	P-350NF-E	

- Refer to the unit's manual to learn about how to clean and replace P-250F-E and P-350F-E, and how to use the filter maintenance sign of the remote controller.
- For consultation on the handling and maintenance, contact your dealer.

We recommend to enter the date of the start of use of filters in the below table per replacement for the next replacement.

Filter name	Installation location			Date of start of use
	OA	SA	RA	