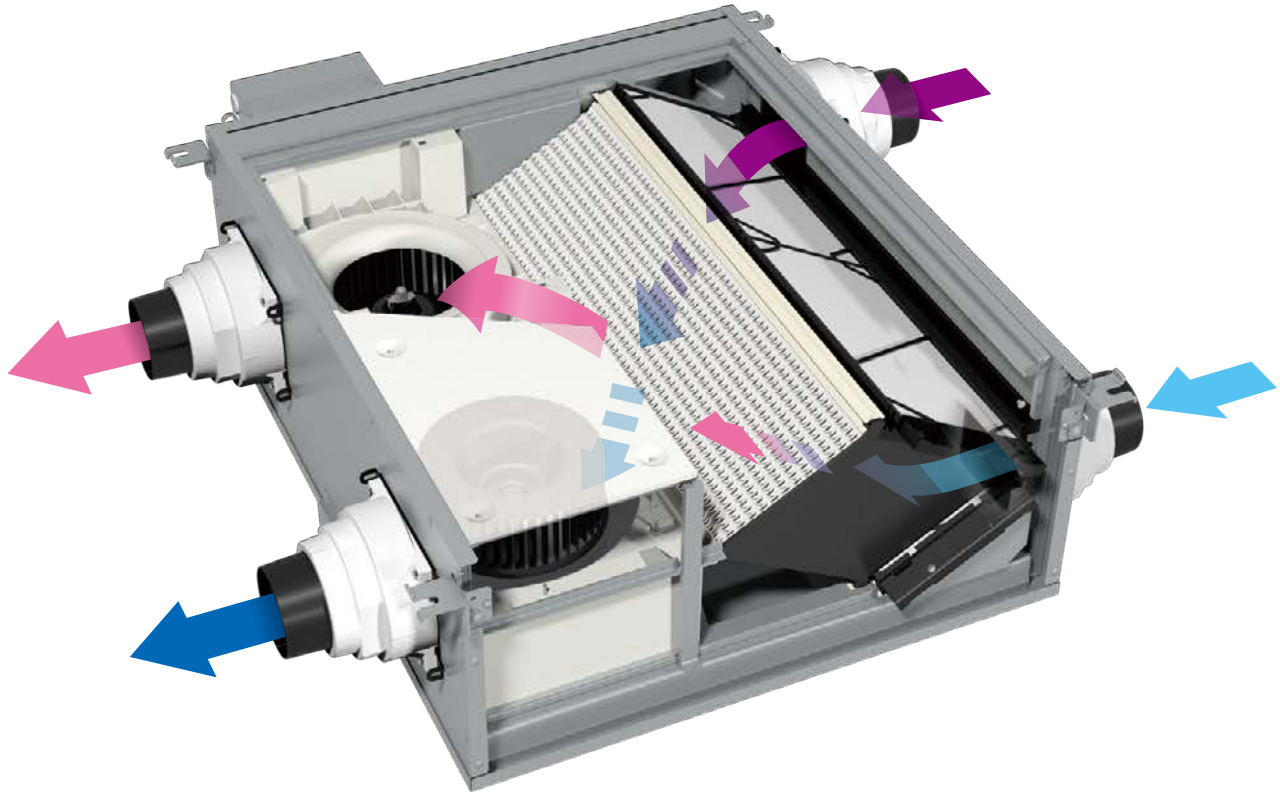


VL-220CZGV-E



Unprecedented energy saving ventilation system will fulfill your life environment more comfortable and enhance the indoor environment with a energy-saving ventilation system.



VL-220CZGV-E

Smart Ventilation

More comfortable!

- Minimizes temperature difference
- Shuts out outside noise
- Filter cuts pollen and dust for fresh clean air



More energy saving!

- 86% maximum exchange efficiency
- Reduces load on air conditioning (heating and cooling)
- Equals saving on your energy costs

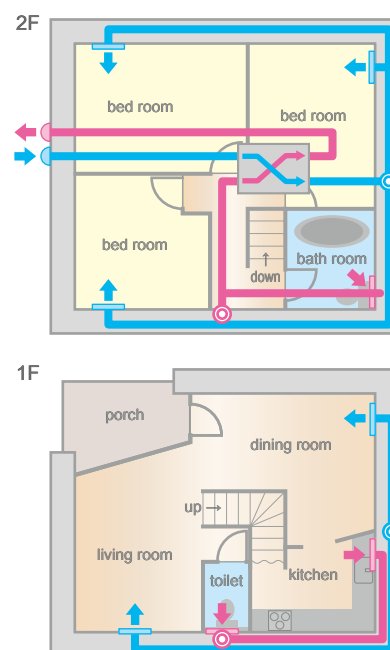
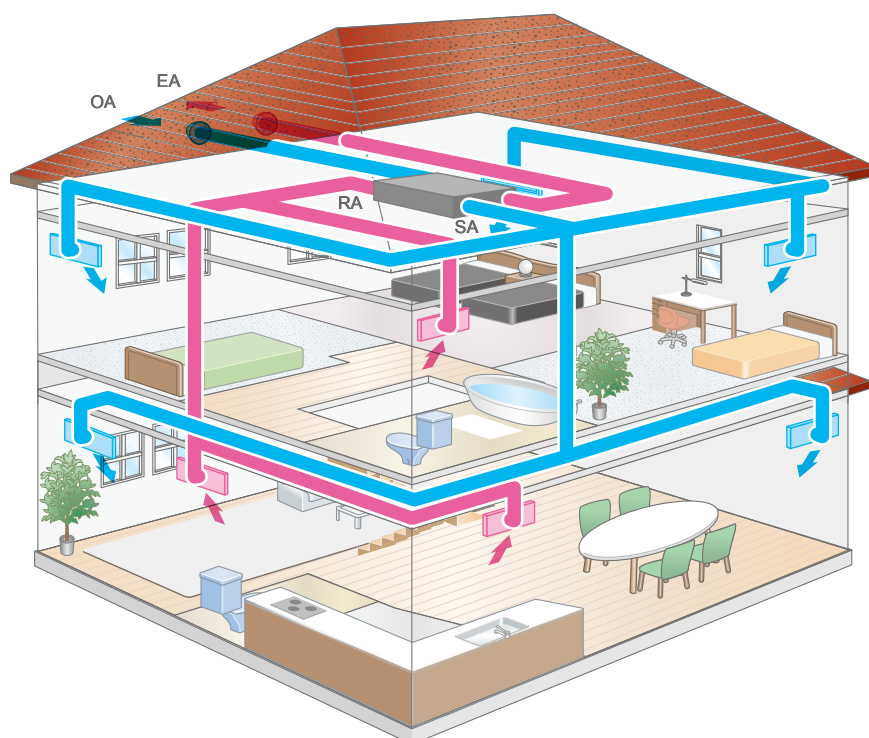


One Lossnay unit provides 24 hours ventilation for the entire house from the living areas to the bathroom.

The heat recovery system provides fresh air at a comfortable air temperature.

The energy saved by using Lossnay contributes directly towards lowering heating or cooling expenses.

The sensible heat exchanger type is effective for decreasing excess humidity in the winter.



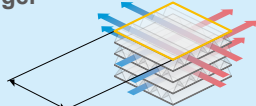
Product Merits

Newly Developed Heat Exchanger

- During ventilation, Lossnay recovers warmth in the winter and keeps air cool in the summer.
- Reducing heating and cooling loads with a maximum exchange efficiency of 86%.

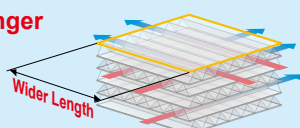
Normal Square Heat Exchanger

Simple structure contributes to minimize pressure loss and reduce power consumption.



New Diamond Heat Exchanger

Due to the diamond design, air passages are longer and help realize higher exchange efficiency.



Energy Efficient

- The highest energy saving in its class. (8.5W minimum input power)
- Saves heating and cooling costs by minimizing energy loss occurring during ventilation.



Quiet

- At an ultra quiet 14dB, it is the quietest product in its class.
- Blocks outside noise for a more comfortable environment.



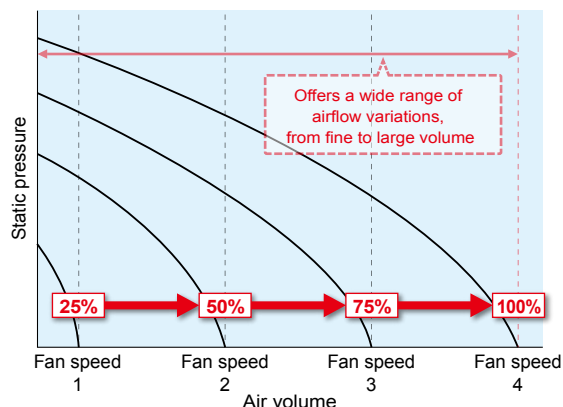
Fan Speed Setting

Widely adjustable fan speed

This model can operate at four main fan speeds. In addition, each speed has a range setting of approximately 25, 50, 75 and 100%, allowing optimum air volume control.

When used in combination with the CO₂ sensor or timer function, the air volume can be controlled according to conditions that realize better performance and reduce power consumption.

■VL-220CZGV-E characteristic curves

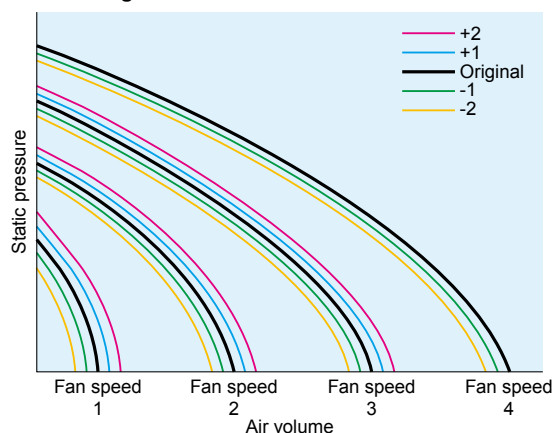


Fan speed precise adjustment function

Each main fan speed value can be further adjusted slightly. Use the PZ-61DR-E remote controller to adjust the speed.

- 1) Considering the total hours of Lossnay operation (filter clogging), the fan power can be adjusted automatically after a given period of time.
- 2) After the unit is installed, when if the air volume is slightly lower or higher than the desired airflow, it is possible to make fine adjustments.
(Fan speed 4 is available only 1down and 2down)

■P-Q curve image



Maintenance

To keep the Lossnay unit in optimal condition, clean dirt and dust from the filters and the drain pan periodically (at least once every six months or more, depending on the operating environment).

1) Draw out filters after unlocking the fixing knobs

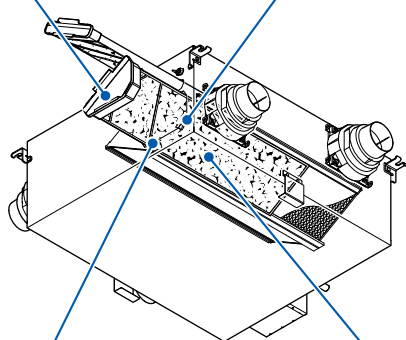
Supply air filter case



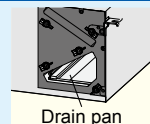
It holds the supply air filter or High efficiency supply air filter.

Supply air filter fixing knob

Release it to remove the supply air filter case. (3 locations)



Drain pan (supply air side)



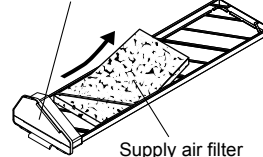
It holds dew condensation water that occurs inside the Lossnay unit.

Supply air filter

It removes insects, pollen, dirt, dust, and other particles from the outside air that is taken into the room.

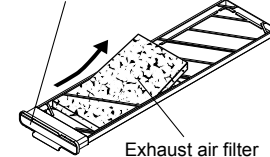
2) Remote the air filters from the filter cases

Supply air filter case



Supply air filter

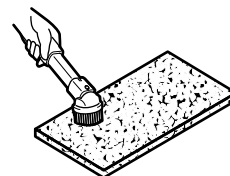
Exhaust air filter case



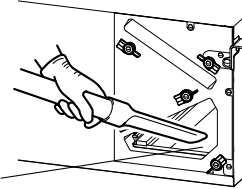
Exhaust air filter

3) Clean at least once every six months

Lightly tap or remove dust with a vacuum cleaner



4) The drain pan can be cleaned with a vacuum cleaner








Drain pan (supply air side)

Control

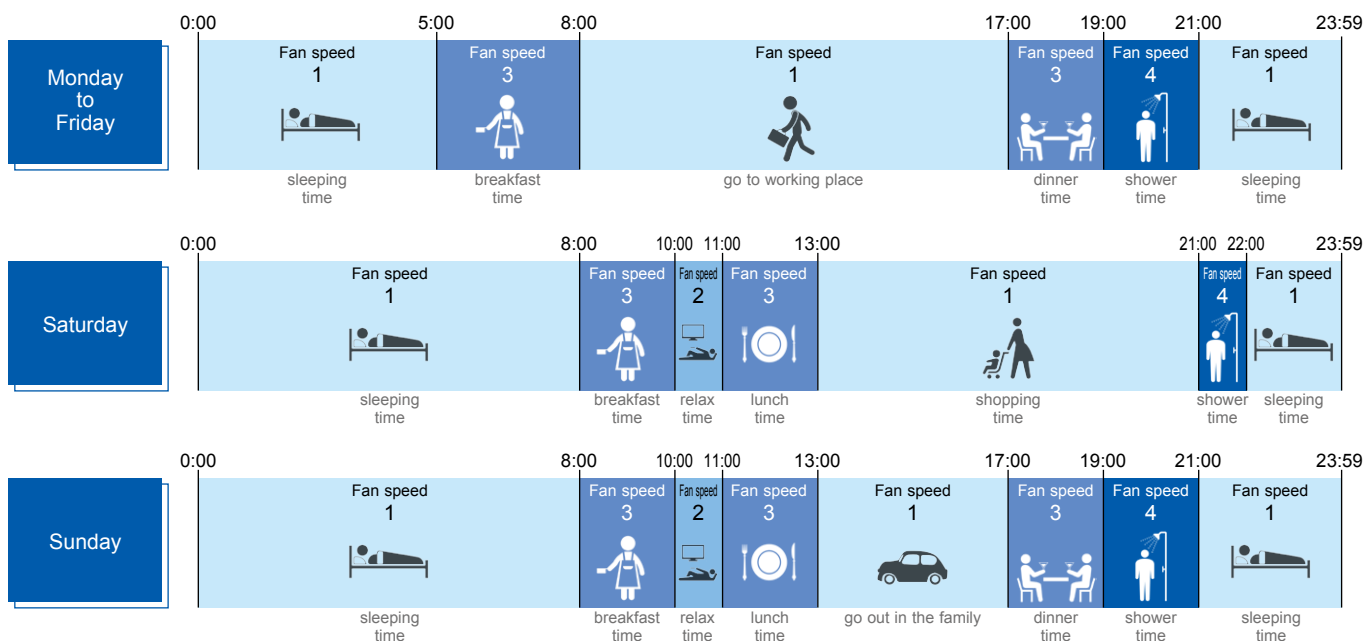
Multi ventilation (power supply / exhaust) mode

This mode allows the air supply/exhaust balance to be varied dynamically. The supply/exhaust balance can be selected to suit the usage environment.

Normal Mode	Power Supply Mode	Power Exhaust Mode
Relax time 	Adjust the indoor pressure balance in case a separate exhaust is installed 	Increase indoor pressure to prevent unfiltered drafts from coming in 
	Keep steam inside of the shower room 	Prevent odors from spreading 

Weekly timer

The operation pattern for each day of the week. ON / OFF and air volume can be set using the weekly timer function (up to eight zones per day). This function contributes to enhanced energy saving operation.



*Example for reference only.

Free cooling mode

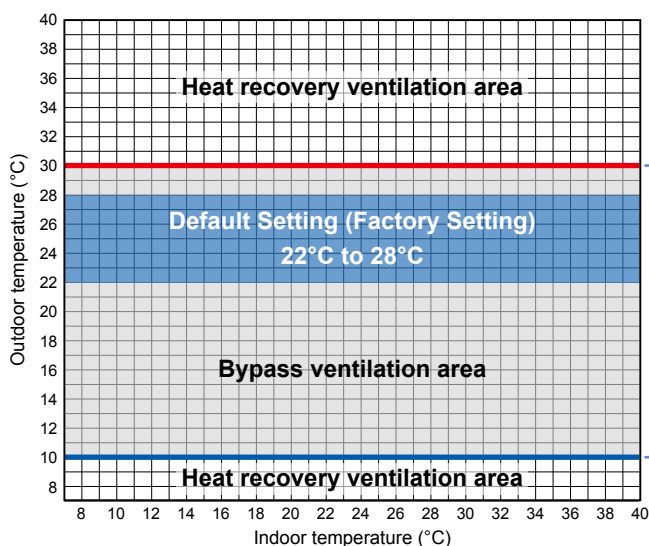
During the summer season, the free cooling mode draws cooler outside air into the room.

This mode contributes to reduced loads on air conditioning.

For this operation, an optional bypass damper P-133DUE-E is required.

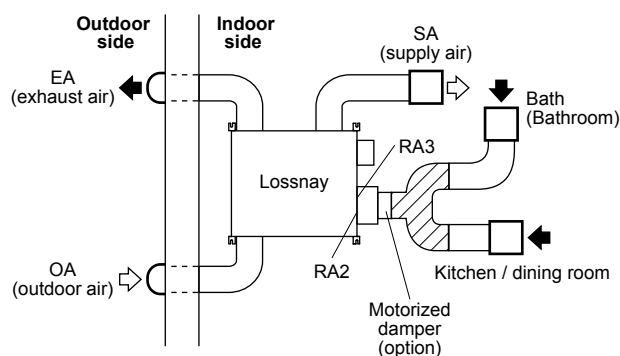
The user is able to set the OA temp. depending on the preference between 10°C to 30°C.

P-133DUE-E
attached to
VL-220CZGV-E



The remote controller PZ-61DR-E can set the free cooling temp. zone:
Max: 30°C, Min: 10°C

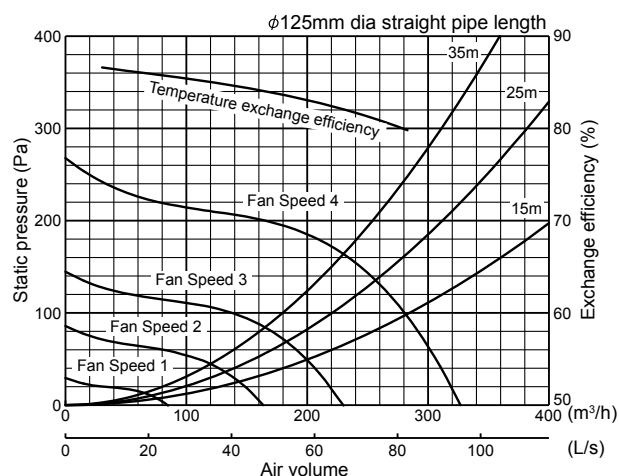
<Piping example>



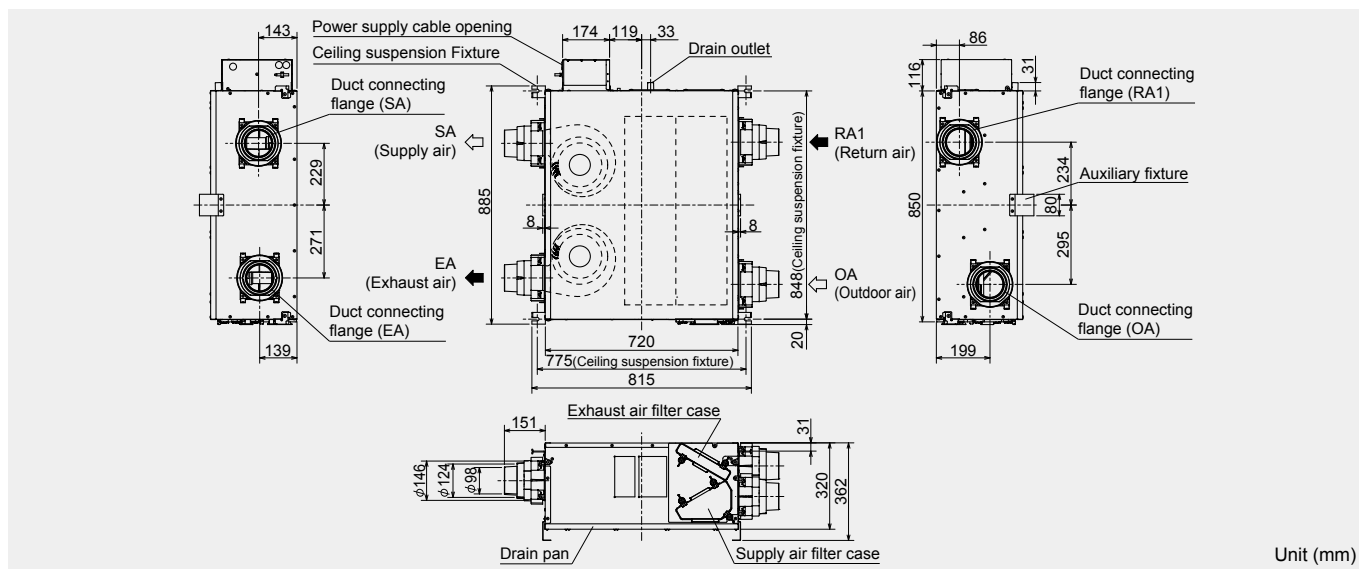
VL-220CZGV-E

Model		VL-220CZGV-E			
Electrical power supply		220-240V/50Hz 220V/60Hz			
Ventilation mode		Heat recovery mode			
Fan speed		Fan speed 4	Fan speed 3	Fan speed 2	Fan speed 1
Running current		0.60	0.29	0.18	0.11
Input power (W)		80	35	18.5	8.5
Air volume	(m ³ /h)	230	165	120	65
	(L/s)	64	46	33	18
External static pressure (Pa)		164	84	44	13
Temperature exchange efficiency (%)		82.0	84.0	85.0	86.0
Noise (dB)		31.0	25.0	19.0	14.0
Weight (kg)		31			
Specific energy consumption class		A			

Characteristic Curve



Dimensions



Unit (mm)