



OPERATING INSTRUCTION

(Please read this operating instruding before using)

【Smoke ventilator P1】-----

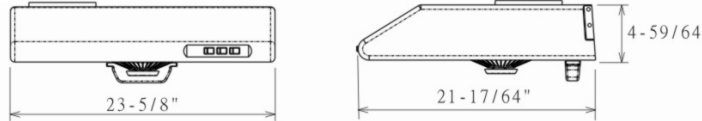
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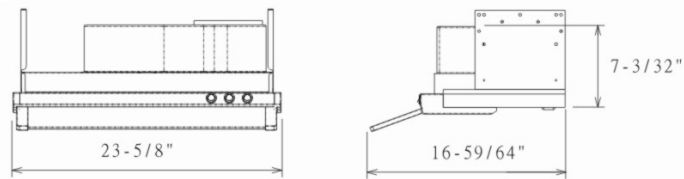
※The figure in this manual is only for reference, it has to confirm with the actual object.

1 Appearance size

R-602

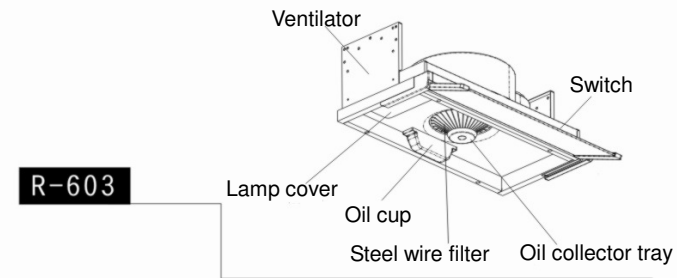
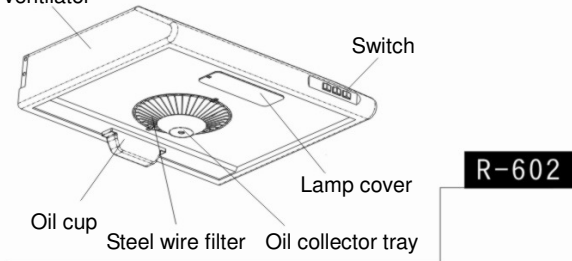


R-603



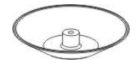

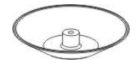

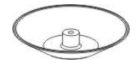








2 Name of parts

Ventilator

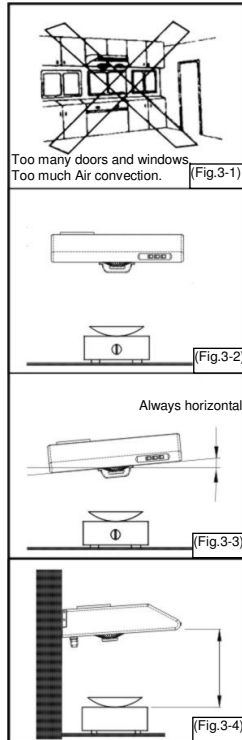


3 Accessories

Name	Figure		
Oil cup	 1 pc		
Wind pipe seat	 1 pc		
Oil collector tray	<table border="1"> <tr> <td> R-602 1 pc</td> <td> R-603 1 pc</td> </tr> </table>	 R-602 1 pc	 R-603 1 pc
 R-602 1 pc	 R-603 1 pc		
Manual	 1		
Screws pack	 Screws 8 # x 5/8 Black 6 pcs		
	 Washer 1/4 x 19 4 pcs		
	 Yellow wiring cap 2 pcs		
	 Copper connector 1 pc		

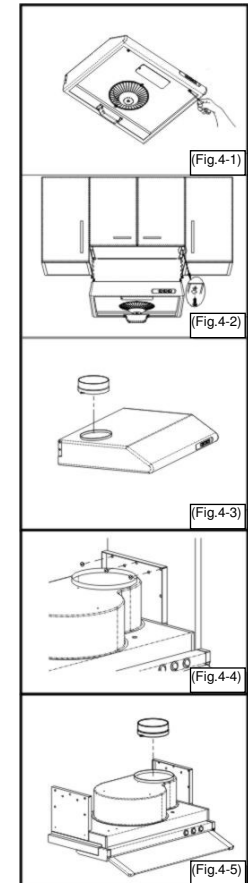
4 Installation guideline

1. Do not install the smoke ventilator in the area with too many doors or windows to avoid too much Air convection, otherwise it may not have proper function to remove smoke.
2. The smoke ventilator must install above the stove.(Fig. 3-2)
3. The machine must be installed horizontally, otherwise the oil in the oil collector tray (or oil cup) will flow to one side and overflow.
4. Arrange the distance between the exit of wind pipe and machine as short as possible, to prevent from accumulation of air in the pipe and reduce ventilation effect.
5. The height between the surface of stove and machine front edge should be 24"~ 32". (Fig. 3-4)
6. The ventilation exit should not discharge the air toward other exhaust discharge passage of natural gas or other fuels.
7. Installed electricity:
 - (1) The power supply must use regulated Voltage.
 - (2) Connect earth wire at first and then put on power supply while installing ventilator. When dismantling the machine,remove power supply at first, and then dismantle earth wire.
 - (3) Do not connect earth wire with water pipe, gas pipe or phone wire etc. to avoid danger.



4 Installation description

1. Open carton and inspect whether manual, wind pipe seataccessories are there .
2. Connect the power supply and switch on before installation to check If every function is running normally (motor, lamp).
3. Remove middle frame during the installation of R-602. Dismantle The screws of middle frame and remove the middle frame.(Fig. 4-1).Secure with wooden screw upward through the internal fixed holes of machine onto the selected location. (Fig.4-2)
4. Please put the machine onto the installation location while installing R-603.Secure the machine onto the kitchen cabinet side plate with screws properly in the selected position of both left and right side of hanging plate. (Fig. 4-4)
5. The machine must be suspended horizontally. (The reason had been explained in item 3 of Installation guideline)
6. Put the Aluminum pipe to wind pipe seat, extend the Aluminum pipe to expected length and fixed the wind pipe seat with 4x12L screws (Attached in the machine) onto the air exit of machine and another end fixed onto the ventilation hole. (Fig.4-3)(Fig.4-5)
7. Once the installation is completed, please make sure the wiring and earth wire connection is done.



6 Application method

1. Operation of the machine:

Punch the key on the front panel of machine based on the function needed.

③ Description of keys:

“ON /OFF” Power supply. Press ON to start the machine.

“ I O II “ Start the fan motor and high low speed

“  “ key: Switch on /off the lamp

7 Attention

1. Make sure the power is disconnected before installation, wiring and maintenance.
2. Always keep the smoke ventilator clean.
3. In order to maintain proper function of the smoke ventilator, the space between ventilator and gas stove must be between 24” ~ 32 “.
4. Make sure the discharge pipe is free of interruption to have suitable ventilation.
5. Read the sticker spec. information on the machine for better understanding.
6. Attention: Make sure the smoke is discharge outdoor to eliminate the fire hazard and smooth ventilation. Never discharge smoke to narrow wall or to the ceiling partition, for example , penthouse ,garage ...
7. Attention: This machine applies for the ventilation of normal air. Do not use it to discharge dangerous , explosive gases or vapor.
8. Warning: To eliminate the fire hazard, electric shock risk, never use other switch (solid state relay)to replace the one installed at fan.
9. Warning: To eliminate the fire hazard, electric shock or endangering people , please comply with following points:
 - (a) Use the smoke ventilator by the instruction of manufacture. In case of question, contact manufacture immediately.
 - (b) Switch off power before maintaining or cleaning the smoke ventilator.
 - (c) Only competence technician is qualified to install and connect wiring by following specification, including the instruction related to fire.
 - (d) The sufficient air supply is necessary to have complete burning of combustion system and the discharge of exhaust via discharge pipe, and avoid the back flow of exhaust air. Please follow the combustion system manual and safety specification, such as NFPA, US Heating, ASHRAE. And local authorities regulations.

- (e) Do not damage the electric wires and other hidden device while drilling holes in walls or ceiling.
 - (f) The ventilation pipe must be connected to outdoor.
10. Warning: To eliminate fire hazard of smoke ventilator:
 - (a) Always clean the ventilation fan, never leave oil spots accumulated on the fan or filtration wires.
 - (b) Switch on smoke ventilator during high temperature cooking.
 - (c) Never look away from the food cooking on the stove when the smoke ventilator is running at high speed. The over cooked food generated smoke easily, or the hot oil may jump out of pans which may cause fire on the running smoke ventilator. Slowly heat up the temperature of boiling oil when the smoke ventilator is running at low speed.
 - (d) Always watch if the smoke ventilator is running properly during cooking.
 - (e) Use proper cooking ware size.
 11. Warning: To eliminate the fire hazard, electric shock or endangering people , please comply with following points:
 - (a) Use tighten pan lid, blanket or tray to cover flame, then turn off the fire, Keep away from been burned. If it is not possible to distinguish the fire, please leave the fire place and call fire squad as soon as possible.
 - (b) Do not pick up on fire kitchenware – You may be burned.
 - (c) Do not try to distinguish fire with water, or wet table cloth or wet towel since it may create violent steam.
 - (d) In case it is following condition, apply fire distinguisher to put out fire:
 1. Make sure it belongs to ABC class, and you know how to operate it.
 2. It is small fire, and burning inside original firing place.
 3. Call fire squad already.
 4. Make sure you are capable to put out fire and there is a safety exit to escape.
 12. Warning: To minimize the fire hazard, please select metal discharge pipe.

8 Maintenance

In order to keep the best performance of the machine, and to prolong the life, you have to pay attention to maintenance.

※ Disconnect the power during maintenance!

- A. Always keep the machine surface clean:

After cooking, clean the surface and middle frame with dry cloth or mob with neutral detergent. Always keep machine clean to have nice appearance and hygiene.
- B. Cleaning accumulated dirty oil:

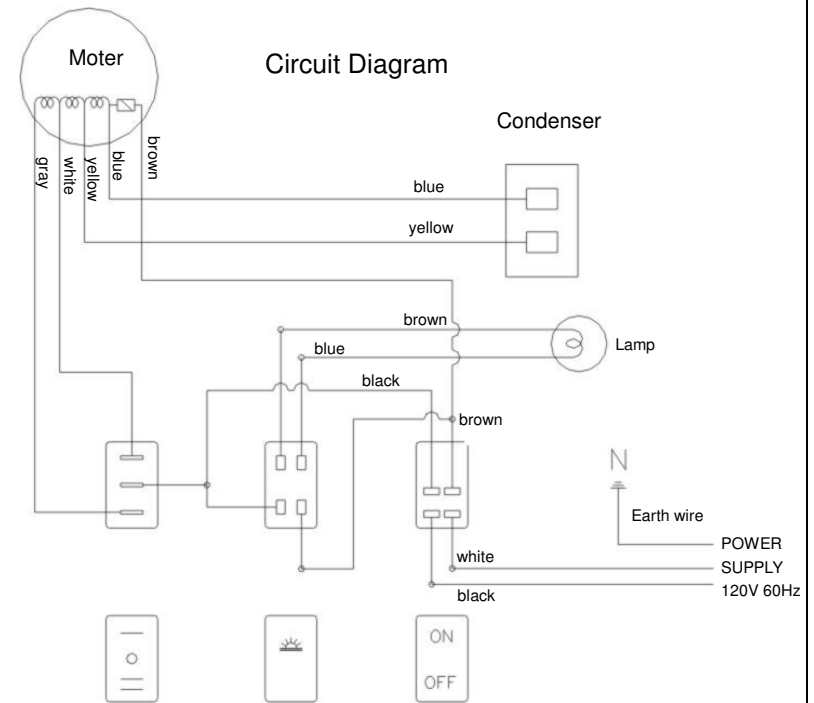
Dump away dirty oil once the oil collector tray (or oil cup) reached 80% level, to avoid overflow.

9 Trouble shooting

1. Once there is abnormal condition during operation, switch off power and contact nearby Sakura service station or agent for maintenance.
2. Always switch off power when dealing with abnormal condition.

Problem	Reason and trouble shooting	Tool
Electric cable damage	Replace by competence technician out of manufacture or similar qualification people to avoid danger once there is damage of cable. ※ Contact nearby Sakura service station or agent for maintenance.	Cross screw driver and long nose plier
Lamp on but motor stop	A. Dismantle filter wire; rotate the fan with hand to check if it is stuck. If positive, change motor. B. If the fan moves freely, then it is the problem of condenser. 1. Check if starting wire (Yellow wire) loose from condenser.(See wiring diagram) 2. If the wire is OK, then the problem is condenser. Change condenser. C. The motor turns a while and stop once you punch the motor key, and you can smell the burning odor. Then the motor is malfunction, you have to replace motor.	1/4" wrench Cross screw driver
Leaking oil from the edge of middle frame	A. Remove the filter wire, check if the sealing between wind pipe and wind seat were installed properly. B. Check if there is oil leakage between wind pipe and wind seat; if positive, try to seal with paint of glue.	Cross screw driver
Machine Vibration	A. Check if the motor is secured. B. If the motor is secured, that means the fan is damage crating unbalancing vibration. Replace the fan.	1/4" wrench Cross screw driver
Poor suction	A. The space between smoke ventilator and stove is too high. B. Too many door/ window around ventilator that created air convection. C. If the ventilator is installed on the window, it is better to add a wooden board under the rear bottom of ventilator and align with the rear part of ventilator to hide the space of window. D. Install the machine according to Installation guideline.	
Slant machine	A. In case of right/left slant, adjust with hanging steel to level the height. B. In case it is prone to front side, screw in the wooden bolt again (suspended 0.5~10 cm outside of wall), or check if the screw tightened to machine is loosed.	Cross screw driver
Change lamp	R-602 Loosen the screws on the lamp panel with cross screw driver to remove the panel, then rotate the 40 W bulb out, replace with a new bulb. R-603 Loosen the screws on the lamp panel with cross screw driver to remove the panel, then rotate the 13 W PL bulb out, replace with a new bulb.	Cross screw driver

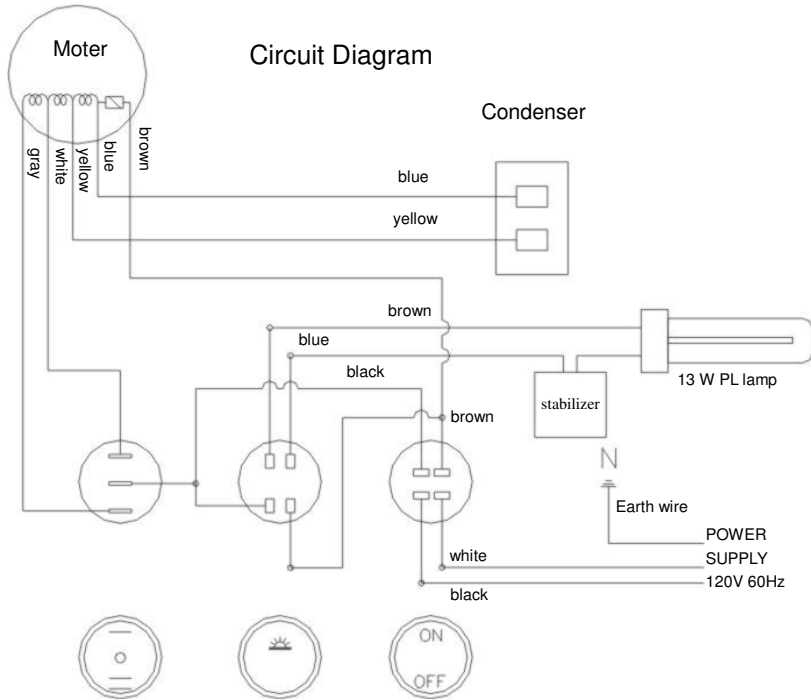
10 R-602 Circuit diagram, function



Function

Setting Voltage ~ frequency	120 V / 60 Hz
Transmission method	Single motor
Wind pipe diameter	150
Illumination	Max. 40 W lamp
Speeds	High (2) Low (1)
RPM	1600 RPM, 1400 RPM
Discharge volume (exit)	8.1 m ³ / min. , 5.2 m ³ / min.
Motor power consumption	90w

T1 R-603 Circuit diagram, function



Function

Setting Voltage ~ frequency	120 V / 60 Hz
Transmission method	Single motor
Wind pipe diameter	150
Illumination	Max. 13 W PL lamp
Speeds	High (2) Low (1)
RPM	1600 RPM, 1350 RPM
Discharge volume (exit)	12.1 m ³ / min. , 11.5 m ³ / min.
Motor power consumption	90w