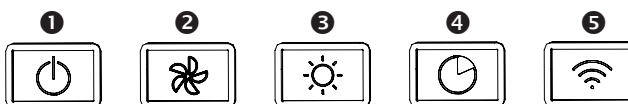


OPERATION

PM400SSV



- NOTES: 1. Each time a key is pressed, a beep is emitted to acknowledge the command. To disable, when the fan and lights are OFF, press on the Lights key (3) for 5 seconds. To put it back, when the fan and lights are OFF, press again on the Lights key (3) for 5 seconds.
2. Each time a key is pressed, its backlight turns ON. When a function is turned OFF, so does the corresponding key backlight.

1 Master ON/OFF:

Press this key to turn on the light and the fan at the last saved intensity. The backlights of the master ON/OFF button, fan button and light button are turned ON. When either light and fan are ON, pressing on this key will memorize the current fan speed and lighting level prior to shut them OFF.

Whenever there is an active function (light or fan is turned ON directly by pressing the fan or light key), the master ON/OFF backlight is turned ON. When the last active function is turned OFF (light or fan is turned OFF directly by pressing the fan or light key), the master ON/OFF backlight is also turned OFF.

2 Fan:

When fan is OFF, a key press turns ON the fan to the last saved speed. If there was no speed saved, the fan will be set on LOW speed. To change the fan speed, press the key again until the desired speed is reached (from LOW, to MEDIUM to HIGH speed to OFF).

When the fan is ON (no matter the speed level), a long key press turns the fan OFF and the current fan speed setting is saved to memory.

Filter Cleaning Reminder

When the user turns the fan OFF, and the fan key backlight flashes slowly during 30 seconds, then this means it is time to clean the hood and filter. Refer to the Maintenance and Cleaning Section on page 22. This will happen every time the user turns the fan OFF (and the timer has not been reset).

Once the cleaning is done, at any time during the 30-second signal (and the fan is OFF), a long press of the fan key will reset the timer and stop the key backlight flashing.

3 Lights:

Press this key to turn ON the lights to the last saved intensity. If there was no light intensity saved, the lights will be set on LOW intensity. Press another time to set the lights to HIGH intensity. Pressing another time after the HIGH intensity will turn OFF the light.

When the lights are ON, a long press turns the lights OFF and the current light intensity is saved to memory. The next time the lights are turned ON (either with the light key or the master ON/OFF key), it does so at the last saved intensity.

4 Delay OFF:

When fan is ON, press this key to activate the delay function; the delay off key backlight will be ON for the duration of the delay (or until cancelled). The fan will continue to operate for 10 minutes and then, will shut off automatically.

When the delay mode is active, it is possible to change the fan speed by pressing the fan key without affecting the remaining time of the delay.

To cancel the delay function before the end of the 10 minute-cycle, press again on the delay OFF key or on the Master ON/OFF key.

5 Wi-Fi/Bluetooth®:

Go to page 18.

OPERATION (CONT'D)

PM600SSV



- NOTES: 1. Each time a key is pressed, a beep is emitted to acknowledge the command. To disable, when the fan and lights are OFF, press on the Lights key (3) for 5 seconds. To put it back, when the fan and lights are OFF, press again on the Lights key (3) for 5 seconds.
2. Each time a key is pressed, its backlight turns ON. When a function is turned OFF, so does the corresponding key backlight.

1 Master ON/OFF:

Press this key to turn on the light and the fan at the last saved intensity. The backlights of the master ON/OFF key, fan key and light key are turned ON. When either light and fan are ON, pressing on this key will memorize the current fan speed and lighting level prior to shut them OFF.

Whenever there is an active function (light or fan is turned ON directly by pressing the fan or light key), the master ON/OFF backlight is turned ON. When the last active function is turned OFF (light or fan is turned OFF directly by pressing the fan or light key), the master ON/OFF backlight is also turned OFF.

2 Fan:

When fan is OFF, a key press turns ON the fan to the last saved speed. If there was no speed saved, the fan will be set on LOW speed. To change the fan speed, press the key again until the desired speed is reached (from LOW, to MEDIUM-LOW, to MEDIUM-HIGH, to HIGH speed to OFF).

When the fan is ON (no matter the speed level), a long key press turns the fan OFF and the current fan speed setting is saved to memory.

Filter Cleaning Reminder

When the user turns the fan OFF, and the fan key backlight flashes slowly during 30 seconds, then this means it is time to clean the hood and filter. Refer to the Maintenance and Cleaning Section on page 22. This will happen every time the user turns the fan OFF (and the timer has not been reset).

Once the cleaning is done, at any time during the 30-second signal (and the fan is OFF), a long press of the fan key will reset the timer and stop the key backlight flashing.

3 Lights:

Press this key to turn ON the lights to the last saved intensity. If there was no light intensity saved, the lights will be set on LOW intensity. To change the lights intensity, press the key again until the desired level is reached (from LOW, to MEDIUM, to HIGH intensity, to OFF).

When the lights are ON, a long press turns the lights OFF and the current light intensity is saved to memory. The next time the lights are turned ON (either with the light key or the master ON/OFF key), it does so at the last saved intensity.

4 Auto (SMART SENSE):

When the fan is OFF, press this key to enable the Auto mode. When a cooking session is detected, this function will automatically start or adjust the fan speed according to the heat detected on the cooktop. The fan will automatically turn OFF when there is no longer sufficient heat detected on the cooktop.

When the hood is OFF and not in use for 3 minutes, the Auto key backlight will automatically turn OFF. Pressing any key will turn the backlight back ON.

To disable the Auto mode, press for a long time the Auto key until the backlight turns OFF.

Manual fan speed adjustment in Auto mode:

When the Auto mode is operating, it is possible to manually change the fan speed using the fan key. The Auto key backlight will turn OFF to indicate that the Auto mode is on pause (until the fan has been manually turned OFF). When the heat is sufficiently low on the cooktop, the Auto mode function will automatically be re-enabled and its backlight will turn ON.

Auto Mode Characteristics:

- The Auto Mode sensor measures the temperature related to cooking activity on the range or cooktop.
- When removing a pan or pot from a hot stove surface, the fan speed may increase. This is not unusual since the sensor detects a temperature increase.
- The fan may turn OFF when cooking at a very low temperature level, especially with induction units.
- The fan may turn OFF temporarily when adding cold or frozen items in the pan or pot. When the items heat up sufficiently, the fan will automatically turn back ON.
- When opening the door of a hot oven or when running a self-cleaning oven, the fan may start automatically.
- When starting to cook, there may be a short delay of the fan operation while the pot/pan heats up.
- After cooking is finished, it is normal for the fan to remain ON for a short period of time until the cooking surface/pot/pan cools down.

5 Wi-Fi/Bluetooth®:

Go to page 18.

OPERATION (CONT'D)

WI-FI/BLUETOOTH® (PM400SSV AND PM600SSV)



This key is used to pair the powerpack insert (via Bluetooth®) to a smart device and to connect it to your home Wi-Fi network, or deactivate Wi-Fi/Bluetooth.

ACTIVATING PAIRING MODE

Before starting this procedure, ensure fan and lights are OFF.

Press the key 3 seconds to initiate the pairing process, if the Wi-Fi/Bluetooth function was OFF, it will turn back ON. The key backlight will flash (15 secs) showing that the device is ready to be paired.

WI-FI/BLUETOOTH FUNCTIONALITY

To turn OFF the Wi-Fi/Bluetooth function, press the key for 3 seconds. Once the key backlight is flashing, press the Master ON/OFF key (1) for 3 seconds. The Wi-Fi/Bluetooth function and key backlight will turn OFF. To turn back ON the Wi-Fi/Bluetooth function, press the key for 3 seconds.

When the hood is OFF and not in use for 3 minutes, the Wi-Fi/Bluetooth key backlight will automatically turn OFF. Pressing any key will turn the backlight back ON.

RESETTING WI-FI/BLUETOOTH

To reset the Wi-Fi/Bluetooth connectivity (remove saved devices and disconnect from the Wi-Fi network), press the key for 3 seconds. Once the key backlight is flashing, press the key again for 10 seconds.

ESSENTIALS TO CONNECT YOUR WI-FI/BLUETOOTH UNIT

Before you connect your powerpack insert to a Wi-Fi network, you will need:

- A smart device with the latest version of iOS or Android operating system
- The smart device has access to the internet and Wi-Fi and Bluetooth are enabled
- The smart device within 5 meters (16 ft.) of the powerpack unit
- The powerpack unit is within the Wi-Fi signal range of your home network
- The name of your Wi-Fi home network (SSID) and its password
- No other Bluetooth enabled smart device nearby.

CONNECTING YOUR WI-FI/BLUETOOTH UNIT

1. Download the Broan Kitchen app.



2. Follow the instructions in the app.

3. Scan the QR code below if you need more details for installing and using the app.



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OPERATION (CONT'D)

WI-FI/BLUETOOTH® (PM400SSV AND PM600SSV)



USING YOUR CONNECTED ITEM

Now that your unit is properly connected, you can experience all the functionalities through the app. Even if you are not physically close to the unit, you can control it through the app using your Wi-fi network.

VOICE CONTROL

You can control the powerpack insert through your voice assistant device (Alexa or Google Home).

Assigning a custom name in the Broan Kitchen app does not make it available on Alexa or Google Home.

USING ALEXA APP OR ALEXA SPEAKER OR DISPLAY

You can rename your powerpack insert using the Alexa app. Keep in mind that this only renames the device on Alexa's end.

Here are some of the currently Alexa voice commands for your powerpack insert:

Range hood:

Alexa, turn ON the range hood

Alexa, turn the range hood ON

Alexa, turn OFF the range hood

Alexa, turn the range hood OFF

Fan

Alexa, turn ON the range hood fan

Alexa, turn OFF the range hood fan

Alexa, set the range hood fan speed to one

Alexa, set the range hood fan speed to two

Alexa, set the range hood fan speed to three

Alexa, set the range hood fan speed to four (PM600SSV unit only)

Lights

Alexa, turn ON the range hood lights

Alexa, turn OFF the range hood lights

Alexa, set the range hood lights to one

Alexa, set the range hood light to two

Alexa, set the range hood lights to three (PM600SSV unit only)

USING GOOGLE ASSISTANT ENABLED SPEAKER OR DISPLAY

Say "Hey Google" and Google will start listening to your commands.

Here are some of the currently Google voice commands for your powerpack insert:

Range hood

Hey Google, turn ON the range hood

Hey Google, turn the range hood ON

Hey Google, turn OFF the range hood

Hey Google, turn the range hood OFF

Fan:

Hey Google, turn ON the range hood fan

Hey Google, turn OFF the range hood fan

Hey Google, set the range hood fan speed to one

Hey Google, set the range hood fan speed to two

Hey Google, set the range hood fan speed to three

Hey Google, set the range hood fan speed to four (PM600SSV unit only)

Lights

Hey Google, turn ON the range hood lights

Hey Google, turn OFF the range hood lights

Hey Google, set the range hood lights to one

Hey Google, set the range hood lights to two

Hey Google, set the range hood lights to three (PM600SSV unit only)

FIRMWARE UPDATE

Periodic firmware updates will improve your experience using the unit. You will be able to explore new features that are added to the device and have enhanced user experience while interacting with the device. A Broan user account must be created in order to take advantage of Firmware updates.

When updates are available, you will be notified through the app. We recommend installing updates when they are available; it only takes a few minutes.

When a firmware is available, you will need:

- the powerpack insert connected to your Wi-Fi home network
- your smart device with the Broan app properly installed and configured

OPERATION (con't)

ALL UNITS

HEAT SENTRY™

Your unit is equipped with a HEAT SENTRY™ thermostat. This thermostat is a device that will turn on or speed up the blower if it senses excessive heat above the cooking surface.

- 1) If blower is OFF - it turns blower ON to HIGH speed.
- 2) If blower is ON at a lower speed setting - it turns blower up to HIGH speed.

When the temperature level drops to normal, the blower will return to its original setting.

NOTE: When Heat Sentry is activated, the fan key backlight flashes slowly and the fan speed cannot be changed.

⚠ WARNING

The HEAT SENTRY thermostat can start the blower even if the hood is turned OFF. When this occurs, it is impossible to turn the blower OFF with its key. If you must stop the blower, set the main power switch (located behind the filter, on inner side of the unit faceplate) in OFF position (if it is possible to do so safely). See inset in FIG. 32.

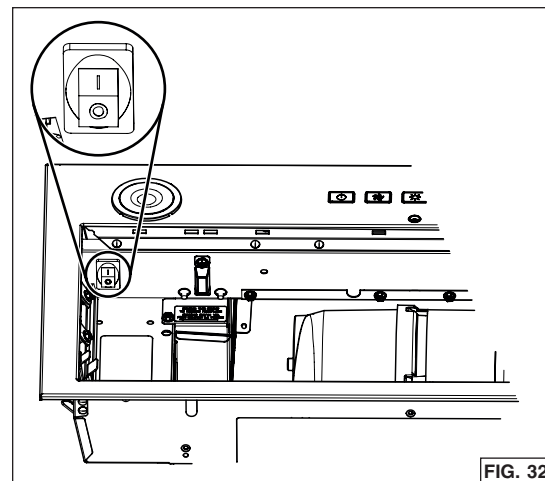


FIG. 32

FCC/IC Statements

Contains FCC ID: 2AC7Z-ESP32WROVERE

Contains IC: 21098- ESPWROVERE

FCC COMPLIANCE STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

INDUSTRY CANADA STATEMENT

This device complies with Industry Canada license exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

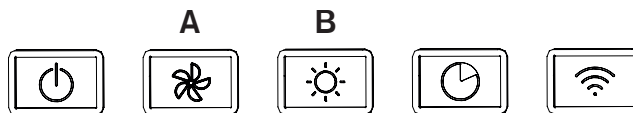
OPERATION (con't)

CODE READY TECHNOLOGY™ ACTIVATION

The Code Ready Technology option allows to change the blower output from the factory setting (PM400SSV: 400 CFM, PM600SSV: 600 CFM) to a maximum of 300 CFM for PM400SSV unit and 400 CFM or 300 CFM for PM600SSV unit. Activating the CRT option will reduce the airflow, so that the powerpack insert will perform within the allowable limit of Make-Up Air (MUA) codes (to meet some building code requirements). Do not change the blower CFM setting unless this change is required by code. This change will alter the performance of the product.

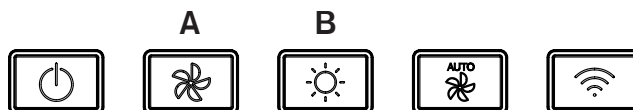
- IMPORTANT NOTES:**
1. This change **CANNOT** be reverted.
 2. CRT can only be set within the first 5 minutes of applying power to the unit.
 3. A power outage will not deactivate the CRT.
 4. Fan and lights must be OFF.

CRT PROCEDURE FOR PM400SSV UNIT



1. Switch power ON using the main power switch (located behind the filter) and press simultaneously on Fan (**A**) and Lights (**B**) keys for 5 seconds; Fan (**A**) and Lights (**B**) key backlights will now flash to indicate you entered the CRT menu.
2. To select the 300 CFM maximum airflow, press on the Lights (**B**) key for 5 seconds, then release; the Lights key backlight will now flash to indicate 300 CFM has been selected (the Fan (**A**) key backlight will be shut).
3. A second 5-second press on the Lights (**B**) key and release confirms the selection; the Lights key backlight quickly flashes twice and the buzzer sounds a double beep. The user interface returns to normal operation.
4. Locate the CRT sticker near the HVI Certification label inside the hood, behind the filter.
Check the proper box (300 CFM).

CRT PROCEDURE FOR PM600SSV UNIT



1. Switch power ON using the main power switch (located behind the filter) and press simultaneously on Fan (**A**) and Lights (**B**) keys for 5 seconds; Fan (**A**) and Lights (**B**) key backlights will now flash to indicate you entered the CRT menu.

400 CFM MAXIMUM AIRFLOW

2. To select the 400 CFM maximum airflow, press on the Fan (**A**) key for 5 seconds, then release; the Fan key backlight will now flash to indicate 400 CFM has been selected (the Light (**B**) key backlight will be shut).
3. A second 5-second press on the Fan (**A**) key and release confirms the selection; the Fan key backlight quickly flashes twice and the buzzer sounds a double beep. The user interface returns to normal operation.
4. Locate the CRT sticker near the HVI Certification label inside the powerpack insert, behind the filter.
Check the proper box (400 CFM).

300 CFM MAXIMUM AIRFLOW

2. To select the 300 CFM maximum airflow, press on the Lights (**B**) key for 5 seconds, then release; the Lights key backlight will now flash to indicate 300 CFM has been selected (the Fan (**A**) key backlight will be shut).
3. A second 5-second press on the Lights (**B**) key and release confirms the selection; the Lights key backlight quickly flashes twice and the buzzer sounds a double beep. The user interface returns to normal operation.
4. Locate the CRT sticker near the HVI Certification label inside the powerpack insert, behind the filter.
Check the proper box (300 CFM).