Swegon CASA® Design Smart

Rock | Swing

INSTALLATION & USE

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Swegon

Important infromation

This document is intended for anyone using the Swegon CASA cooker hood. Please read this user manual before using the appliance. Keep the manual for future reference. A digital version of this document is also available on our website.

This appliance can be used by children aged 8 years and older, as well as by persons with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, provided they are supervised or have been instructed in the safe use of the appliance and understand the hazards involved. Children must not play with the appliance. Children must not clean or carry out maintenance on the appliance without supervision.

Installation and Commissioning

Installation, adjustment, and commissioning must be carried out in accordance with local regulations. When adjusting the airflow of the cooker hood, the overall ventilation system of the home must be taken into account.

The cooker hood may only be connected to a duct that complies with applicable regulations. In apartment buildings, approval from the housing association is always required.

Safety Distance

Wall Installation
The distance between the cooker hood and the cooktop must be at least: 500 mm (electric cooktop), 650 mm (gas cooktop).

Island Installation
The distance between the cooker hood and the cooktop must be at least: 650 mm (electric or gas cooktop).

Always follow any additional instructions provided by local authorities or the manufacturer of the cooktop.

General Kitchen Exhaust

The cooker hood must not be used for general kitchen exhaust if its duct is connected to a separate exhaust outlet of a ventilation unit. This separate exhaust bypasses heat recovery and can negatively affect the annual efficiency of the ventilation system.

Make-Up Air

Ensure that there is adequate make-up air in the room, especially if a fireplace is used in addition to the cooker hood.

Maintenance

User maintenance is limited to cleaning the exterior surfaces and grease filters of the appliance.

Decommissioning the Appliance

Do not dispose of electrical appliances with household waste. Follow local laws and regulations for safe and environmentally friendly disposal of the product.

Product Warranty

The warranty is valid only if the appliance has been maintained according to the recommendations in the user manual. Only original Swegon spare parts and filters must be used, and they must be replaced as instructed in the manual. Wear parts are not covered by the warranty.

For full warranty terms, visit:
swegon.com/
casawarranty

Never flambé under the cooker hood!

NOTE! The original language of this user manual is Finnish.

Table of Contents

1. General Information

The cooker hood plays a central role in the home's ventilation system. It is important that the hood removes cooking fumes efficiently and quietly.

Thanks to their stylish and streamlined design, all Swegon CASA cooker hoods blend seamlessly into modern kitchen interiors. Special attention has been paid to user convenience, with smooth, easy-to-clean surfaces and durable metal grease filters that are simple to maintain.

2. Control Technologies

Smart
Swegon CASA cooker hoods can control ventilation units equipped with Smart control technology.

EC Roof Fan
The Swegon CASA Smart cooker hood can also control a roof fan equipped with an EC motor.

3. Installation

All cooker hoods are equipped with an external power supply, which also serves as the main power switch. The socket intended for connecting the hood must be installed in an easily accessible location.

The cooker hood is connected to a Smart-controlled ventilation unit using a modular cable. If the modular cable is routed inside building structures (e.g., inside a wall), the wiring must be placed in a Ø 20 mm conduit to allow for possible future replacement.

Each cooker hood is delivered with a reducer made of fire-resistant plastic (Xantar® MX 1000, PC-unfilled, Impact Modified, Flame Retardant, High Flow), which allows the Ø 160 mm duct outlet to be adapted to a Ø 125 mm duct.

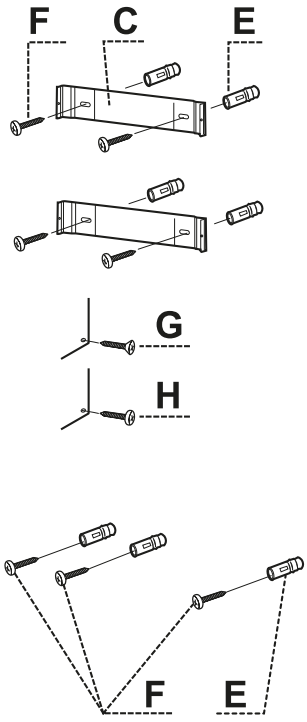
3.1 Wall Installation

Mounting accessories, screws, and other installation hardware are included with the cooker hood.

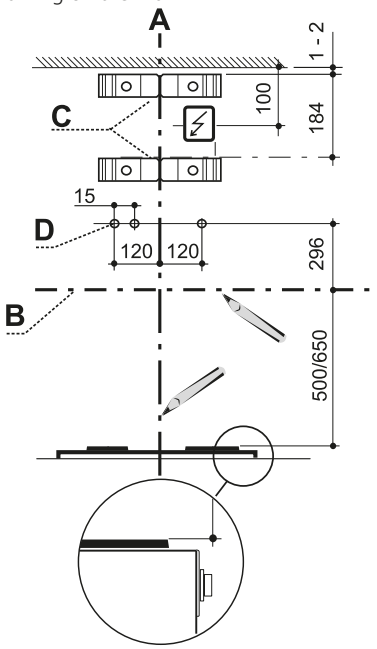
The exhaust air must be ducted outdoors in accordance with applicable regulations.
The exhaust must not be connected to any duct used for discharging smoke or flue gases from, for example, a fireplace, wood- or oil-fired boiler, or similar appliances.

Installation Accessories

C	2 pcs	Mounting brackets for upper part of the duct
E	7 pcs	Wall plugs 5,5 x 35
F	7 pcs	Screws 4,2 x 32
G	2 pcs	Screws 2,9 x 9,5
H	2 pcs	Screws B6 x 8
	1 pcs	Reducer fitting



Mounting the Wall Brackets, marking on the Wall.



NOTE! The maximum distance from the bottom edge of the cooker hood to the top edge of the duct cover is 980 mm. If an extended upper duct cover is used, refer to its specific measurements.

Mark the centerline **A** on the wall directly above the cooktop, where the cooker hood will be installed. Draw a horizontal reference line **B** 500/650 mm above the cooktop. Place the upper duct bracket **C** on the wall according to the dimensional drawing. Mark the screw holes for the bracket on the wall.

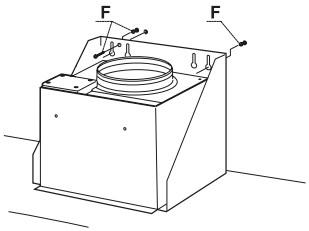
Position the lower duct bracket **C** 185 mm below the upper bracket and mark its screw holes.

Mark the screw holes **D** for attaching the cooker hood to the wall, using the dimensional drawing as a guide.

Drill ∅ 3,5 mm holes at all marked points. Attach the duct brackets and the hood mounting brackets using screws **F** (4,2 x 32 mm).

If using the supplied wall plugs, drill ∅ 6 mm holes instead. Insert wall plugs **E** into the holes. Ensure the wall plugs used are suitable for the wall material.

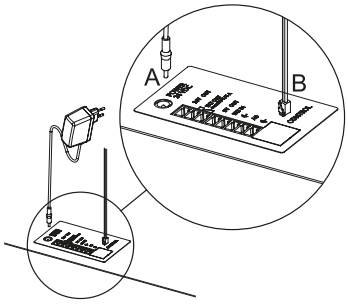
Before hanging the hood, fasten two screws **F** into the pre-drilled holes, leaving the heads slightly protruding.

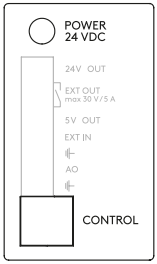


Hang the cooker hood onto the wall and adjust it so that it is level. Secure it in place by tightening with an additional screw **F**.

Connect the cooker hood to the exhaust duct using a ∅ 160 mm pipe. If the connection size is ∅ 125 mm, use the supplied reducer fitting.

Connect the power supply cable (1,5 m) (**A**) to the hood's connector and plug the power adapter into the socket. Connect the cooker hood to the ventilation unit using the modular cable (**B**).



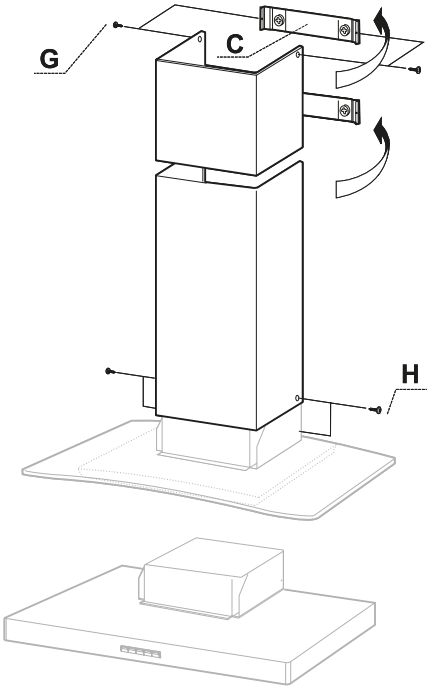


Duct Cover Installation

Gently spread the sides of the upper duct cover and place them over the **C** brackets. Make sure they are properly seated. Secure the sides to the brackets using two **G** screws (2,9 x 9,5).

Gently spread the sides of the lower duct cover and install them between the upper duct cover and the wall. Ensure they are correctly positioned.

Attach the lower duct cover sides to the hood using two screws **H** (B6 x 8).



Please dispose of the packaging at your nearest recycling facility in accordance with local waste regulations.

3.2 Island Installation

Mounting accessories, screws, and other installation hardware are included with the cooker hood.

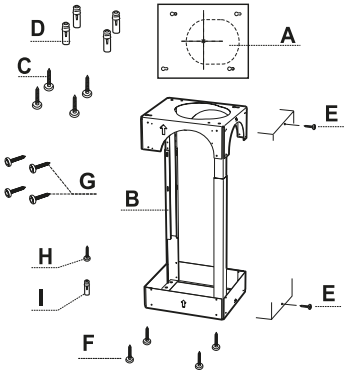
The exhaust air must be ducted outdoors in accordance with applicable regulations.
The exhaust must not be connected to any duct used for discharging smoke or flue gases from, for example, a fireplace, wood- or oil-fired boiler, or similar appliances.

The minimum distance between the electric or gas cooktop and the cooker hood must be 650 mm. If the gas cooktop manufacturer recommends a greater distance, their recommendation must be followed.

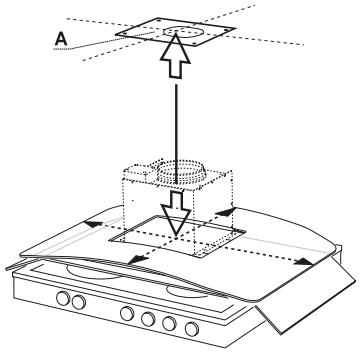
Avoid installing the cooker hood so that it extends past the front edge of the cooktop, as this increases the risk of bumping your head during use.

Installation Accessories

A	1 kpl	Drilling Diagram
B	1 kpl	Frame
C	4 kpl	Screws 6 x 75
D	4 kpl	plugs ∅ 10 x 60
E	4 kpl	Screws B4 x 9,5
F	4 kpl	Screws M6 x 8,8
G	4 kpl	Screws 3,5 x 6,5 TORX T10
H	1 kpl	Screws B8 x 32
	1 kpl	Reducer fitting



Marking on the ceiling



Protect the cooktop with a piece of packaging cardboard. Place the cooker hood on top of the cooktop.

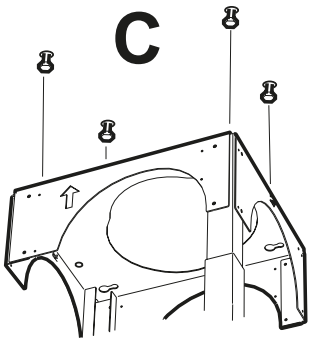
Use a plumb line to mark the center point of the cooker hood on the ceiling. Align the center of the drilling template **A** with the ceiling mark so that the hood will be positioned as desired.

NOTE! Rotate the drilling template so that the arrow points in the direction of the front edge of the cooker hood.

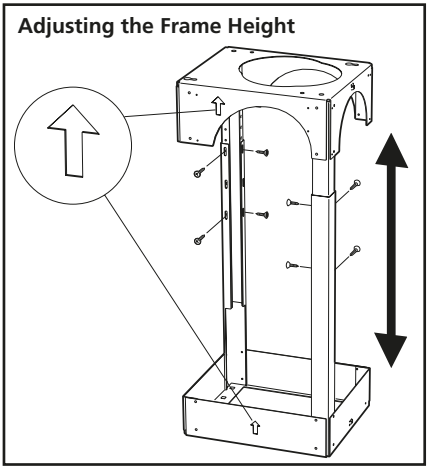
Mark all the screw holes and the exhaust duct connection using the template.Drill holes at the center of each marked screw hole.

Choose a suitable mounting method and adjust the holes for either screws with wall plugs, or screws with nuts and washers as needed.Cut an opening for the exhaust duct connection.

Insert the **C** screws for the keyhole brackets into the pre-drilled holes, leaving them protruding by a few millimeters.



Adjusting the Frame Height



NOTE! The maximum distance from the bottom edge of the cooker hood to the top edge of the duct cover is 1070 mm. If extended duct covers are used, refer to their specific dimensions.

Adjust the frame height according to the ceiling height and the desired installation height of the cooker hood. Measure the total ceiling height. Subtract the height of the cooktop, the installation height (distance between cooktop and hood), and the height of the cooker hood. (See the dimensional drawing in the chapter Technical Specifications.)

Frame height = total ceiling height – cooktop height – installation height – 60 mm (Rock) / 40 mm (Swing)

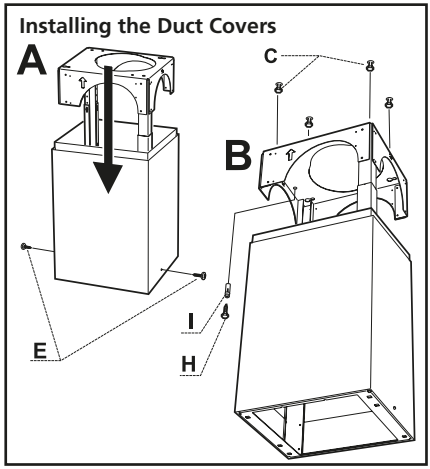
Loosen the 8 screws on the frame to make adjustments. Set the desired frame height and then tighten the screws to lock it in place. Some screws may need to be moved to different holes during the adjustment.

Adjusting the Length of the Exhaust Duct Connector Pipe.

Measure the adjusted frame height. Subtract the height of the metal cover. (Refer to the dimensional drawing in the chapter Technical Specifications.)

Pipe length = frame height – 210 mm (Rock) / 230 mm (Swing)

Installing the Duct Covers

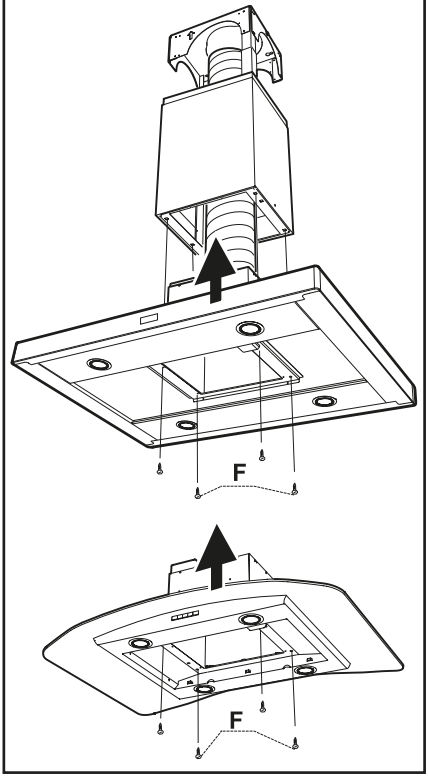


Place the adjusted frame on the floor or on a table protected with a piece of packaging cardboard. Slide both duct covers over the frame. Attach the outer duct cover to the frame using screws **E**.

Lift the frame up and align the keyholes with the four **C** screws that were previously installed in the ceiling or extension section. Fit the frame into place and tighten the screws. Secure the frame with a fifth screw **H** to lock it in position.

NOTE! Rotate the frame so that the arrow points in the direction of the front edge of the cooker hood.

Installing the Cooker Hood onto the Frame

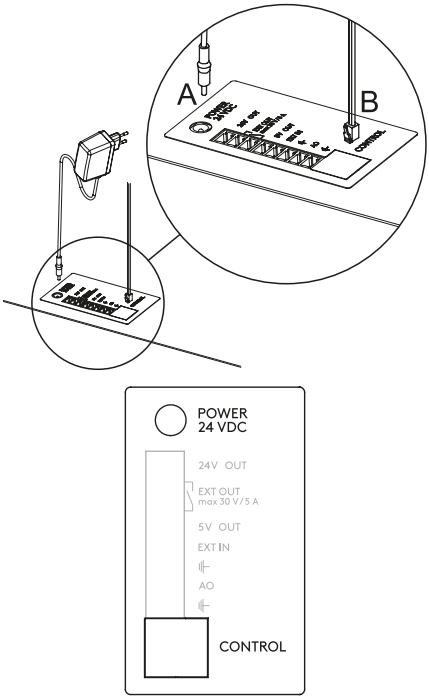


Attach the connector pipe to the cooker hood's exhaust outlet. Feed the pipe, power cable, and the cooker hood itself through the frame and secure the hood using screws **F**.

Connect the cooker hood to the ceiling exhaust duct using a ∅ 160 mm pipe. If the duct connection is ∅ 125 mm, use the supplied reducer fitting.

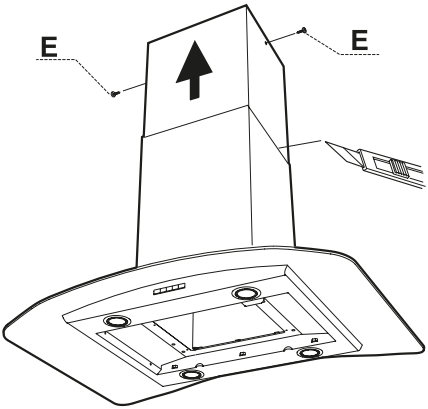
Connect the power supply cable (1,5 m) (**A**) to the hood's connector and plug the power adapter into the socket. Connect the cooker hood to the ventilation unit using the modular cable (**B**).

If an extended upper duct cover is used, take it into account when making the connections. The power socket must remain accessible after installation.



Lift the upper duct cover into position and secure it with screws **E**.

Carefully cut the protective plastic film along the seam between the upper and lower duct covers using a sharp knife or razor blade. Remove the plastic film from the duct cover.



Please dispose of the packaging at your nearest recycling facility in accordance with local waste regulations.

4. Commissioning

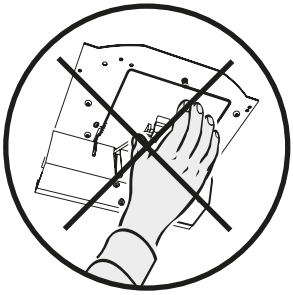
There should be a separate general exhaust in the kitchen. The general kitchen exhaust must not be directed through the cooker hood damper if the hood's duct is connected to a separate exhaust outlet of the ventilation unit.

Airflow is adjusted using the damper, which can be accessed by removing the filter.

The measurement pressure Pm is taken from measuring point **A**. Using the Pm pressure value and the damper position, the airflow can be determined from the airflow diagrams: G1–G6 refer to basic ventilation and F1–F6 to boost ventilation.

If airflow needs to be changed, consult the diagrams to find the new damper setting value, then adjust the damper position according to the following instructions.

NOTE! The damper cannot be opened manually.



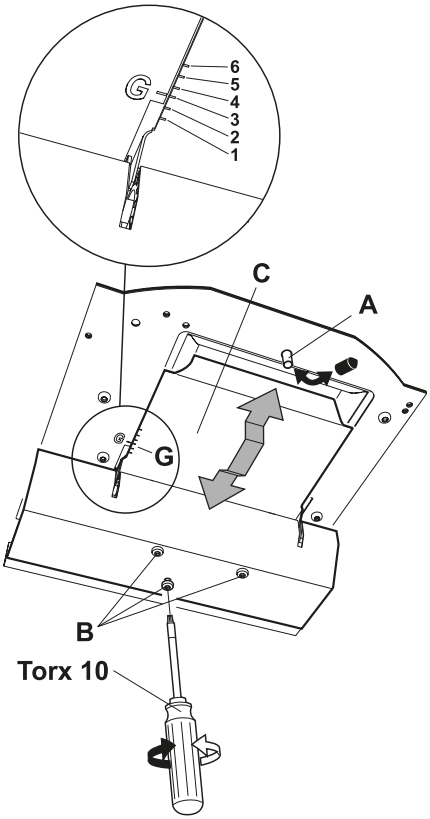
Basic Ventilation Adjustment

NOTE! It is not recommended to use the cooker hood for basic ventilation if it bypasses the heat recovery unit (HRU). If basic ventilation is required (e.g., in a Central system), a separate damper (FR131483) must be purchased and installed in the hood.

Adjust basic ventilation with the damper in closed position: Remove screws **B**. Move the damper **C** to the desired position.

NOTE! Handle the damper carefully! The damper position markings G1–G6 correspond to the values shown in the Basic Ventilation diagram (see Technical Specifications). Lock the damper in place using screws **B**.

Measure the Pm pressure and verify that the desired basic ventilation level is achieved.

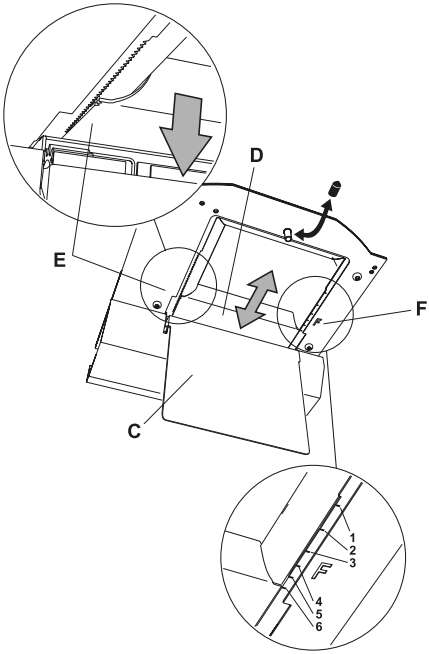


Boost Ventilation Adjustment

Open the damper **C** using the switch located on the cooker hood. Remove the sliding damper **D** by lifting it out of the locking tabs **E**. Handle the sliding damper carefully, do not bend it.

Move the damper to the desired position. The position markings F1–F6 correspond to the values shown in the Boost Ventilation diagram (see Technical Specifications). Push the sliding damper back into the locking tabs and ensure it is securely in place.

Measure the Pm pressure and verify that the desired boost airflow is achieved.



Ventilation Balancing
When using the cooker hood, it is important to balance the home's ventilation system. The additional exhaust airflow through the hood can create negative pressure inside the building. Balancing is handled automatically when the cooker hood is connected to a Smart ventilation unit. The cooker hood function is enabled and adjusted via the Smart unit's user interface.

Roof Fan Operation
The Swegon CASA Smart cooker hood can control a roof fan equipped with an EC motor.

Connect the EC roof fan control cable to the cooker hood using the supplied connector. (See Wiring Diagram, section 8.)

By factory default, the cooker hood controls the roof fan with forced operation in three speeds, without an OFF position. The OFF mode can be enabled via the hood controls. When OFF is active, pressing the Fan Speed Selection button a fourth time will turn off all fan speed indicator lights, and the roof fan will enter OFF mode.

Enabling OFF Mode:

- Press and hold both the Fan Speed Selection and Damper Control buttons (+) simultaneously. => The middle fan speed indicator LED will light up, indicating that the setting mode is active.
- The OFF mode is indicated by a flashing LED. You can switch between settings using the Fan Speed and Damper Control buttons:
  - Fan OFF
    LED flashes on the right
  - Fan ON
    LED flashes on the left
- Confirm your selection by pressing and holding the Light Control button .

Adjusting Roof Fan Speeds

Adjust the three fan speeds to achieve the desired airflow rates. Factory default control voltages are: Away = 2 V, Home = 5 V, Boost = 8 V.

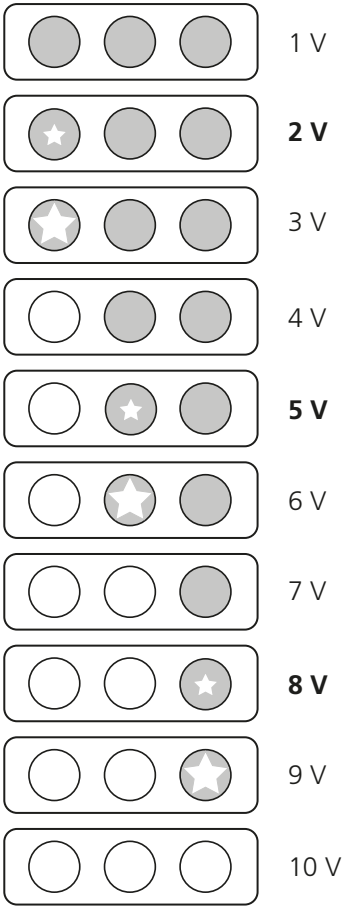
- Press and hold both the Fan Speed Selection and Light Control buttons (+) for approximately five seconds.
- Use the Fan Speed Selection button to choose which mode to adjust. The fan speed indicator shows the selected mode. Note. The speeds can only be adjusted from lower to higher. For example, the Away mode speed cannot be higher than Home mode.
- Increase voltage with the Light Control button . Decrease voltage with the Damper Control button. . The selected control voltage is shown via the LED indicators.


No light


Brief flash


Prolonged flash

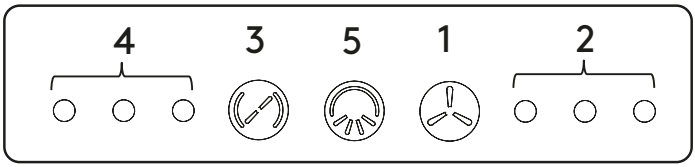

Light on



- Confirm and save the adjustments by pressing and holding the Light Control button for about five seconds. If confirmation is not done and no buttons are pressed for ten minutes, the cooker hood will return to normal mode, and the changes will not be saved.

5. Operation

In an apartment-specific ventilation system, the cooker hood controls the fan speed of the ventilation unit. The cooker hood should be used during cooking at a speed that matches the ventilation need.



1. **Fan Speed Selection.**
   When connected to a Swegon CASA ventilation unit, the cooker hood can control the ventilation system's operating mode: Away, Home, or Boost. The Boost mode is timer-controlled and runs for 60 minutes, after which the system automatically returns to Home mode.
2. **Fan Speed Indicator.**
   The indicator light shows the current operating mode of the ventilation unit.
   From left to right, the lights represent: Away, Home, and Boost.
3. **Damper Control.**
   The cooker hood's damper open time can be set to 30, 60, or 120 minutes. Each press of the control button increases the time by one step. A fourth press closes the damper. By pressing and holding the button, the open time can be set to 10 hours (intended for summer cooling, do not use during the heating season).
4. **Damper Open Time Indicator.**
   The number of illuminated indicator lights shows the selected damper open time.
   No lights = Damper closed
   1 light = 30 min
   2 lights = 60 min
   3 lights = 120 min
   1+3 lights = 10 h
5. **Light Control.**
   The cooker hood light is turned on and off using the light button. By default, the light operates at 75% brightness.

   To adjust brightness: Press and hold the button the brightness will increase or decrease. Press again to reverse the direction of the adjustment. When the desired brightness is reached, release the button and wait. The light will briefly flicker to confirm that the new setting has been saved.

Functions Related to the Smart Ventilation Unit

The operation of a ventilation unit controlled by the cooker hood is indicated as follows:

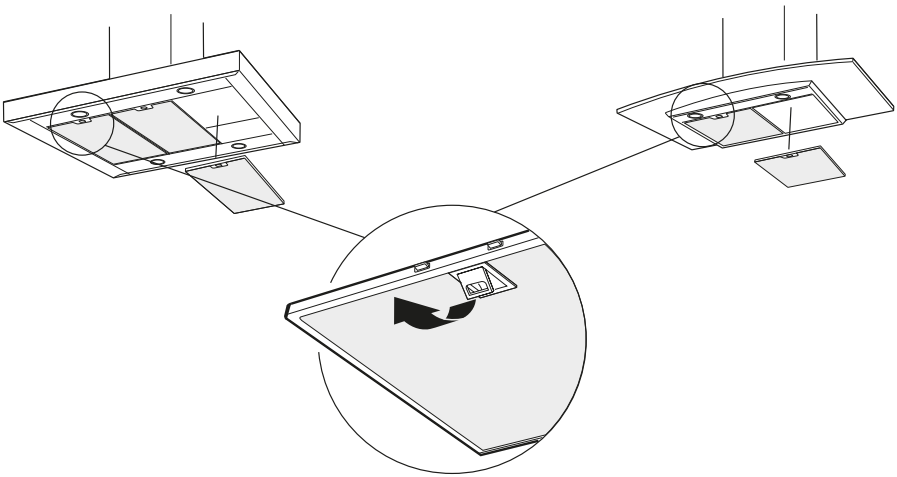
- **Away or Boost mode light is dimly lit**: The Smart function is automatically adjusting the ventilation to a higher or lower level. You can override the Smart function by pressing the Fan Speed Selection button and resume manual control.
- **All lights flashing**: A serious malfunction has occurred in the ventilation unit. Contact an authorized service provider.
- **Fan speed indicator lights flashing**: The unit requires maintenance.
  Acknowledge the service reminder by pressing and holding the Fan Speed Selection button for 5 seconds.
- **Away mode light flashing**: The ventilation unit is turned off.
  Press the Fan Speed Selection button to restart the unit.

6. Maintenance and Care

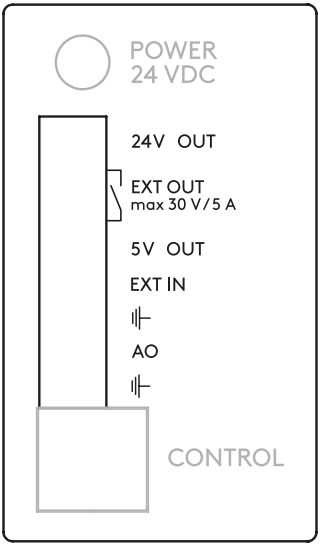
Regular cleaning of the cooker hood and grease filter is essential. Failure to do so will reduce the hood's ability to capture cooking fumes and may create a fire hazard due to grease buildup.

Surfaces
Clean the surfaces of the cooker hood using a damp cloth and mild dishwashing detergent. Do not use abrasive cleaners or solvents.

Grease Filter
Under normal use, the grease filter should be cleaned approximately twice a month. Clean the filter by hand-washing it in warm water. Washing the grease filter in a dish-washer may cause discoloration of its surface.



7. Accessories



7.1 External Controls

The unit supports the following external connections:

- **24 V out**: 24 V power output, max. 200 mA
- **Ext out**: Damper position signal (max 30 V 5 A)
- **5 V out**: 5 V power output, max. 200 mA
- **Ext in**: Control input for damper and lighting.
- **AO**: Control signal for Twist fan unit or EC roof fan.
- **Control**: Control cable for ventilation unit or ILVA transformer unit.

7.2 Twist Fan Unit

(TTEC)
The Swegon CASA Twist is an ultra-quiet fan unit for cooker hoods, which can also function as a central ventilation fan. It is controlled via a Swegon CASA Smart cooker hood and equipped with an energy-efficient EC DC motor.

The cooker hood and the fan unit have separate power cables, so a dual outlet is required for installation.

7.3 ILVA Transformer Unit

(ITFC)
All Swegon CASA cooker hoods can control a ventilation unit or roof fan equipped with transformer technology via the ILVA transformer unit, supporting three fan speeds.

7.4 Ext out 230 V Relay

(CHR)
The external relay can control 230 V external devices based on the damper position signal. Wiring instructions are included with the accessory.

7.5 Cooker Hood Balancing Unit

(CHB)
The balancing unit allows pressure balancing in rooms with a Central-type cooker hood by offsetting the underpressure caused by boost ventilation and general exhaust through a terminal unit.

7.6 Basic Airflow Damper

(FR131483)
If basic ventilation is required (e.g., in a Central system), a separate adjustment damper must be purchased and installed in the hood.

7.7 Auxiliary Relay for Cooker Hood 24VDC

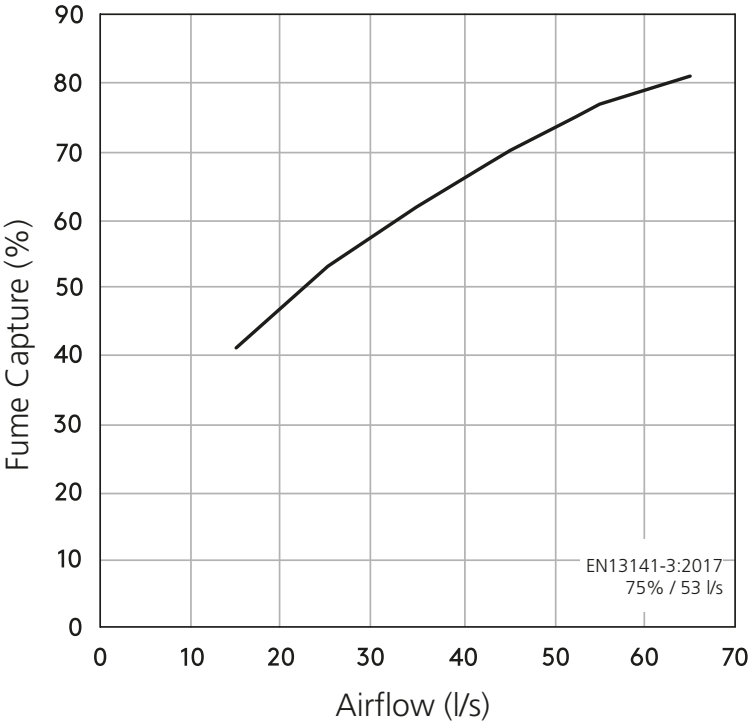
(CHR24V)
The auxiliary relay enables more precise airflow control when used together with the cooker hood balancing unit.

8. Technical Specifications

8.1 Power Supply Ratings

	Wall Model	Island Model
Power Supply	24 V, 12 W, 0,5 A	24 V, 12 W, 0,5 A
Lighting Power	2 x 2 W	4 x 2 W
Total Power Consumption	12 W	12 W

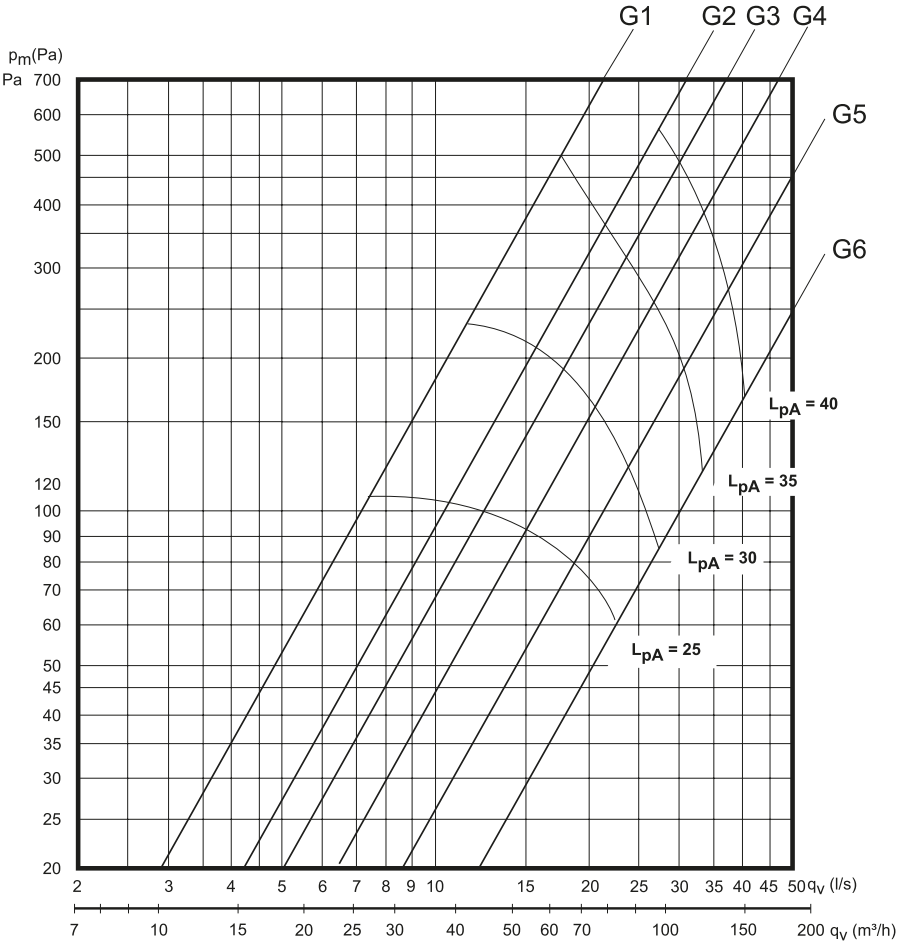
8.2 Fume Capture Efficiency



The cooker hoods have been tested according to EN 13141-3:2017.
Measurements were taken at a distance of 60 cm from the cooktop.

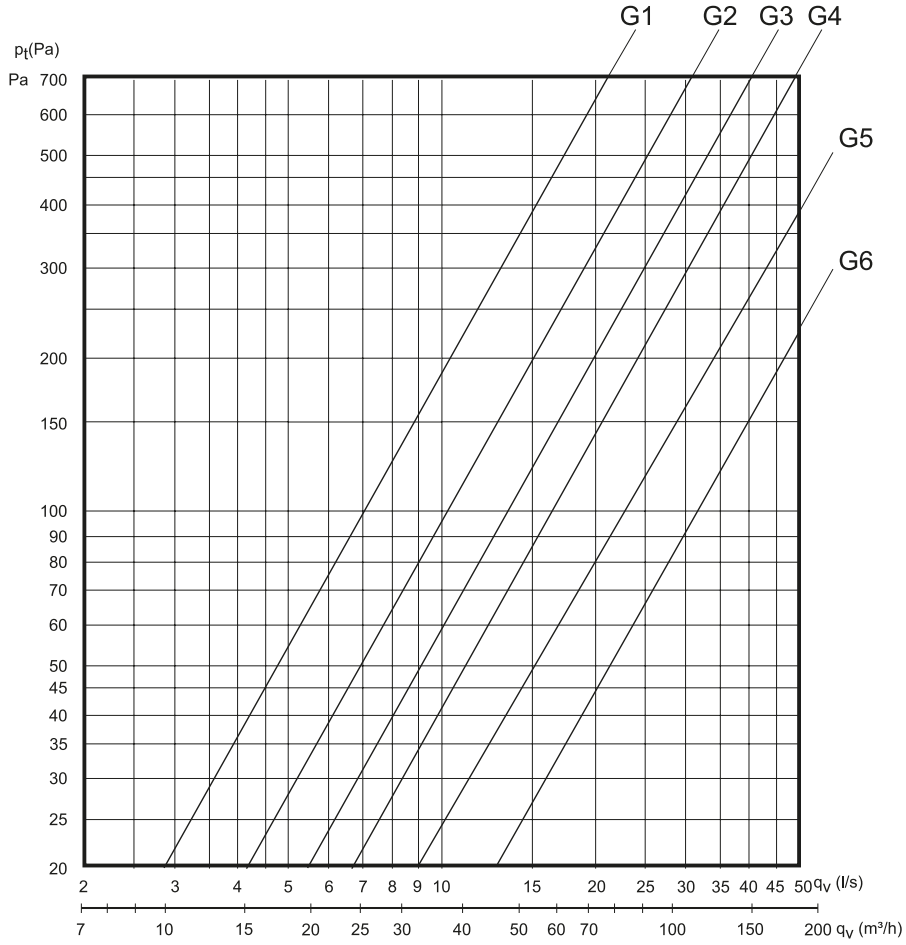
8.3 Adjustment Diagrams

8.3.1 Basic Ventilation



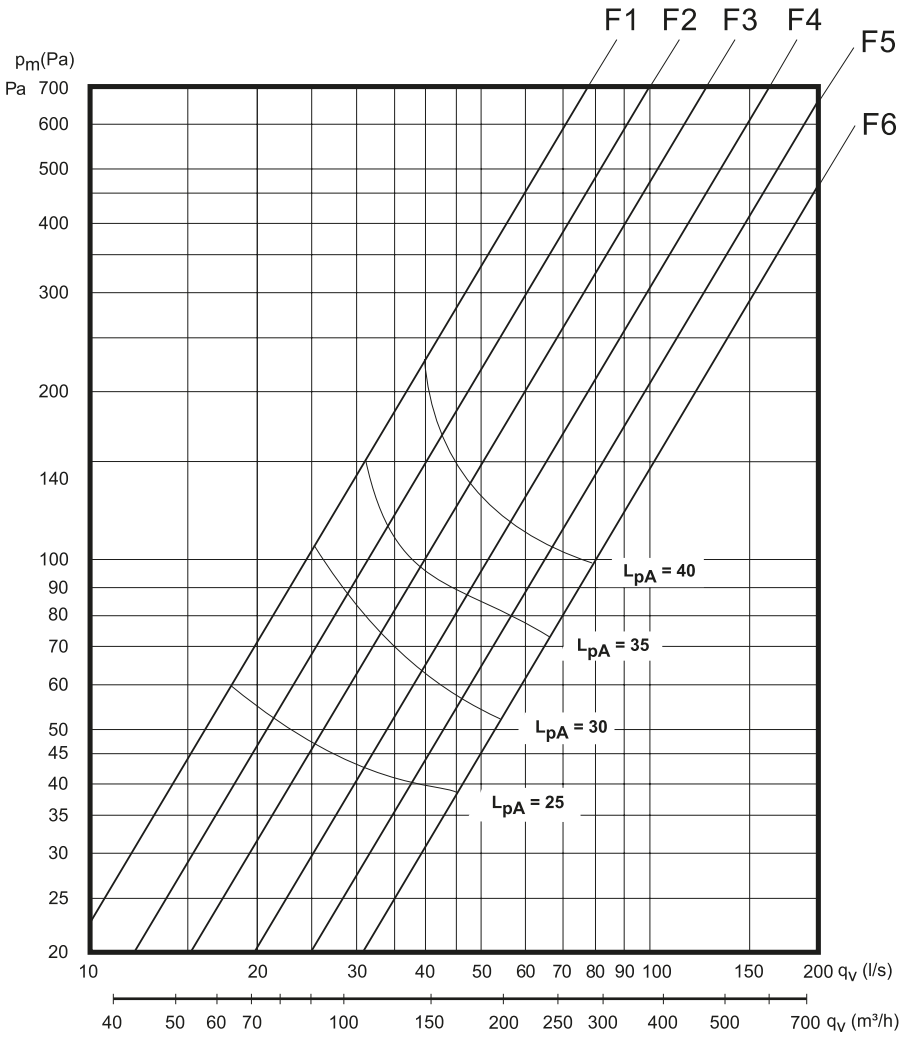
P_m= Pressure at the measurement port

LpW= A-weighted sound power level, relative to 1 pW
LpA= A-weighted sound pressure level in a room with 10 m² sound absorption (Sabins)



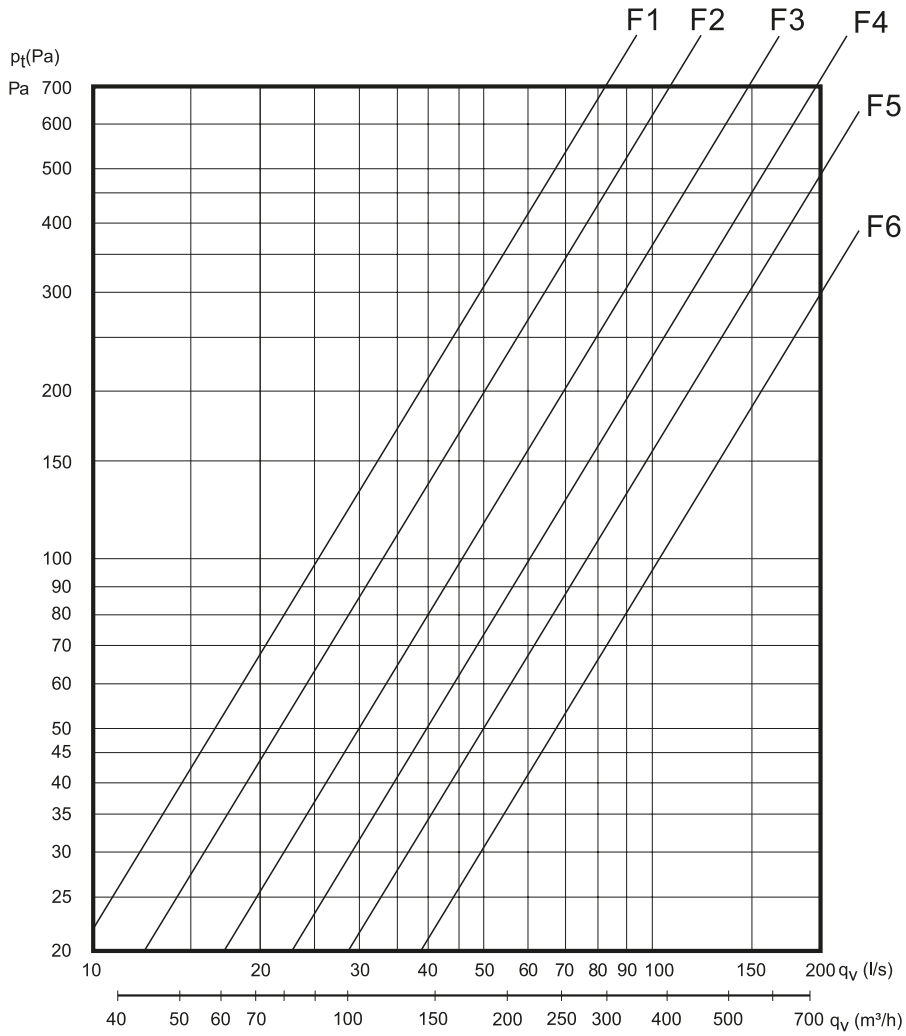
P_t= Actual duct pressure

8.3.2 Boost Ventilation



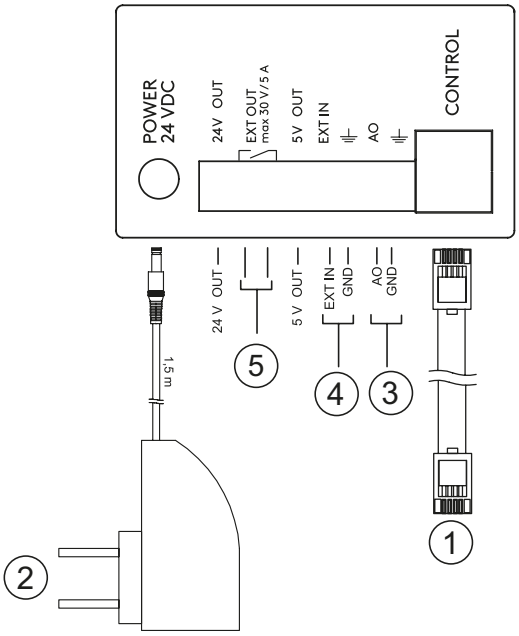
P_m= Pressure at the measurement port

LpW= A-weighted sound power level, relative to 1 pW
LpA= A-weighted sound pressure level in a room with 10 m² sound absorption (Sabins)



P_t= Actual duct pressure

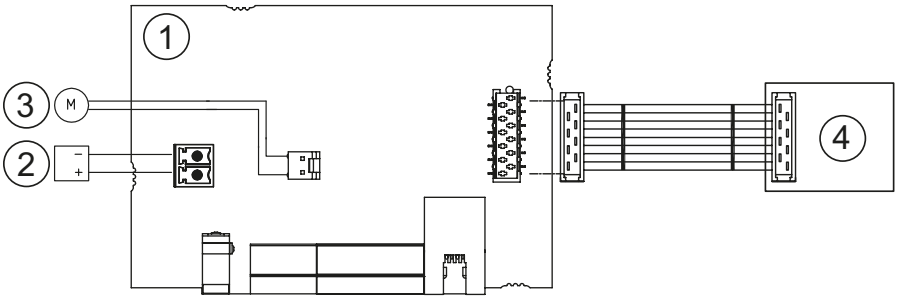
8.4 Electrical Connections



1. Control cable for ventilation unit or ILVA transformer unit, RJ9 connector (modular cable)
2. Power supply: 24 V
3. Control signal for Twist fan unit or EC roof fan: 0...10 VDC*
4. Ext in: Control input for damper and lighting (volt-free contact)*
5. Ext out: Damper position signal (normally open)*

**) Connectors included in the accessory bag.*

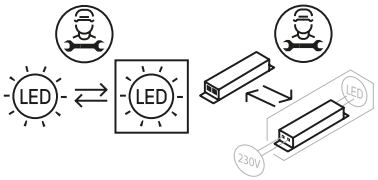
8.5 Internal Connections



1. Control board
2. LED light (3000 K)
3. Damper motor
4. Control panel with buttons

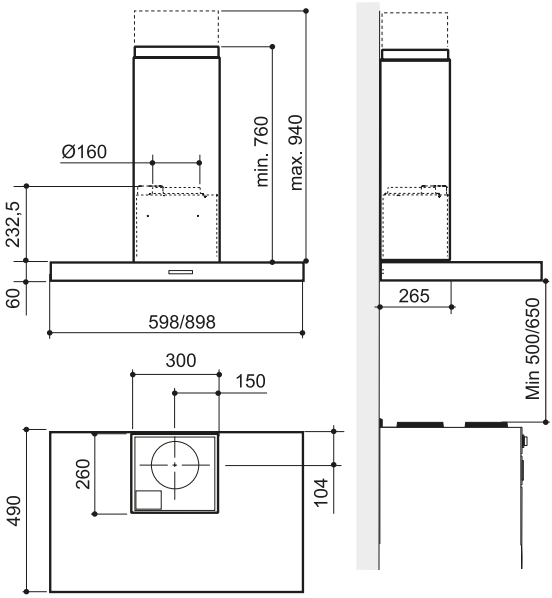
Note!

The LED light and LED driver must only be replaced by a qualified professional. Please contact an authorized service provider.
The light and driver may only be replaced with original spare parts from the manufacturer or equivalent parts approved by an authorized service provider.



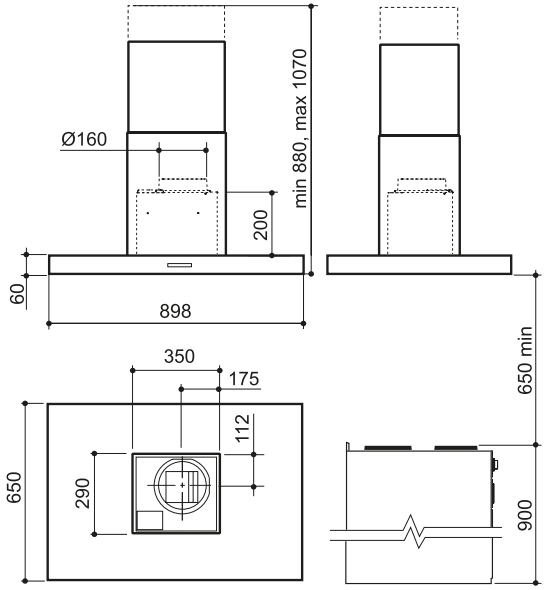
8.6 Dimensions

8.6.1 Rock, wall model



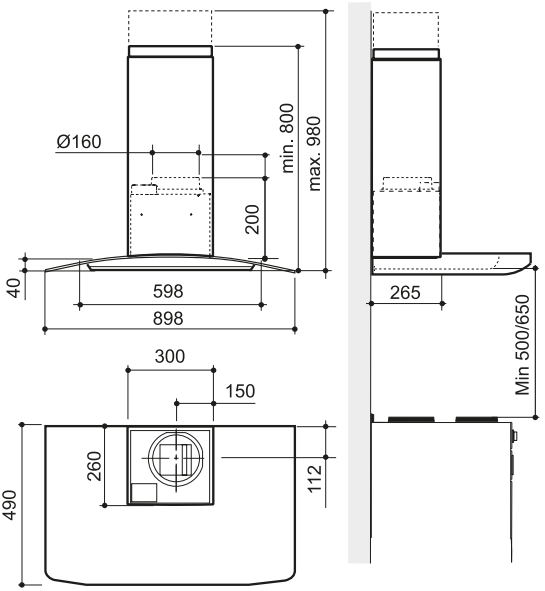
Weight	
Rock 60	16 kg
Rock 90	21 kg

8.6.2 Rock, isalnd model



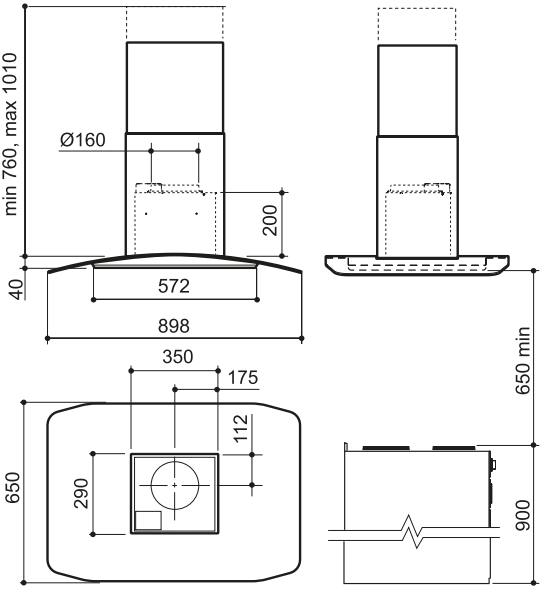
Weight	
Rock 90 I	32kg

8.6.3 Swing, wall model



Weight	
Swing 60	19 kg
Swing 90	23 kg

8.6.4 Swing, island model



Weight	
Swing 90 I	32 kg

8.6.5 Duct Cover Extension (Accessory)

Rock, wall model

Rock 400 (PRJ4)
L_{min} 760 mm L_{max} 1320 mm

Rock 800 (PRJ8)
L_{min} 800 mm L_{max} 1720 mm

Swing, wall model

Swing 400 (PSJ4)
L_{min} 800 mm L_{max} 1360 mm

Swing 800 (PSJ8)
L_{min} 840 mm L_{max} 1760 mm

Rock, island model

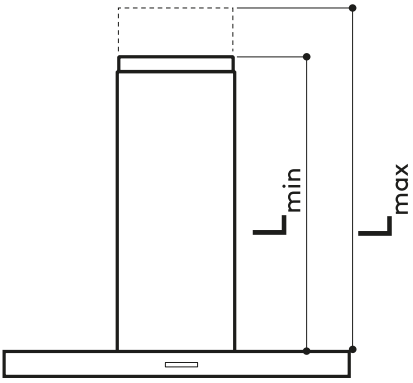
Rock 480 (PSRJ4)
L_{min} 810 mm L_{max} 1490 mm

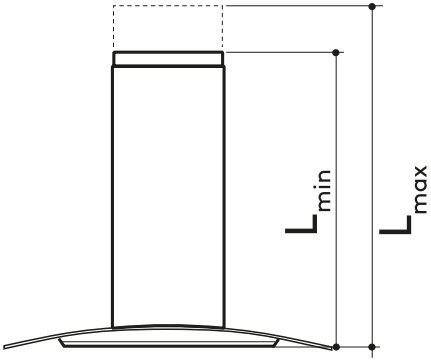
Rock 1190 (PSRJ8)
L_{min} 1000 mm L_{max} 2180 mm

Swing, island model

Swing 480 (PSRJ4)
L_{min} 850 mm L_{max} 1530 mm

Swing 1190 (PSRJ8)
L_{min} 1060 mm L_{max} 2240 mm





Feel good **inside**

Swegon