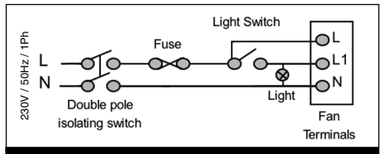
230V Wiring Diagrams

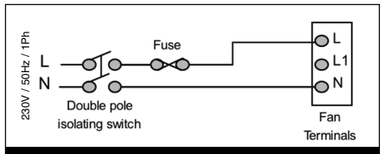
The electrical connections must be carried out by a qualified electrician in accordance with IEE or local regulations.

WARNING: Isolate electricity supply before starting work.

- The fan is double insulated and does not require an earth connection.
- The fan must be connected to a double pole isolating switch having contact separation of at least 3 mm.
- When supplied from a 6 amp lighting circuit no local fuse is required.



With Boost



Without Boost

Fan Specifications

230V Model:

⧈ 220-240V ~ 50Hz / 1Ph IP24

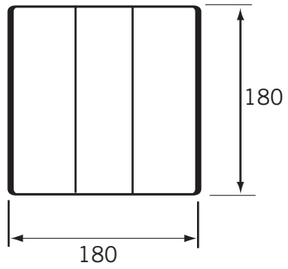
5.5 Watts max. 5, 10 & 15 L/S

airflow performance

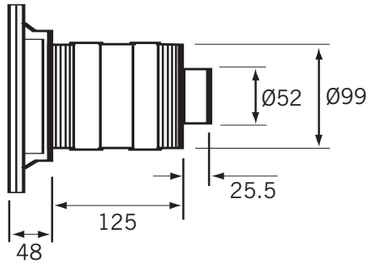
Cable Sizes:

Fixed flat wiring 2 core 1mm^2,

3 core 1/1.5mm^2



Front



Side

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05.10.899 (MCR 618) Issue 2 March 2011

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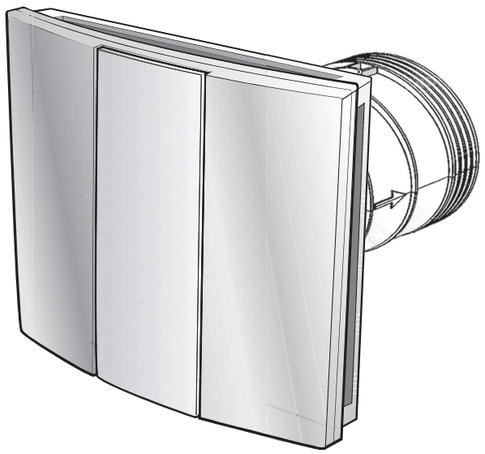
INSTALLATION INSTRUCTIONS

Serenity

Constant Volume Single Point Extract Fan

The Serenity is a continuously running extract fan, designed to offer a simplistic approach to the Building Regulations and an energy efficient domestic ventilation solution. The design concept revolves around 'one product', which has been designed to be flexible in application and to meet the performance requirements of all wet rooms within a dwelling (to be configured during installation). The Serenity fan is also silent in operation and is supplied with an aesthetically styled decorative cover.

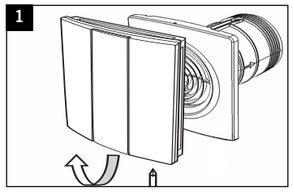


READ ALL INSTRUCTIONS BEFORE COMMENCING INSTALLATION

- Observe appropriate safety precautions if working on steps or ladders. Wear eye protection when breaking out wall or window materials etc.
- The fan should not be sited where it would be subject to a direct source of heat in excess of 40ºC.
- When installing ensure that there are no buried cables or pipes in the way. It is recommended that this fan is mounted 1.8m above floor level.
- A clearance of 75mm to be allowed on at least one side of the fan for the removal of the internal grille.
- The appliance is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the appliance safely. Young children should be supervised to ensure that they do not play with the appliance.
- Siting Notes: Where an open-flued oil or gas-fuelled appliance is installed in the kitchen, extract ventilation can cause the spillage of flue gases. Care must be taken to ensure ventilation is reduced appropriately, as set out in the Building Regulations. Kitchens with solid-fuel appliances should not have extract fans fitted.
- Ensure metal retaining bracket is used in all installations.

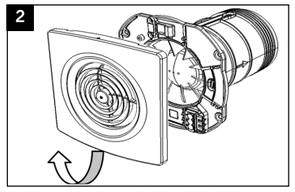
Wall Mounting (Using ED wall duct and EG external grille)

1



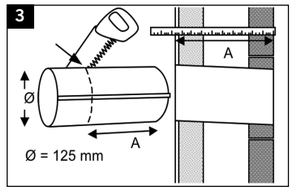
Remove the two retaining screws under decorative cover and then pull bottom of decorative cover while lifting.

2



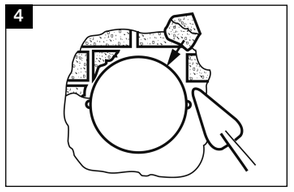
Pull bottom of internal grille while lifting.

3



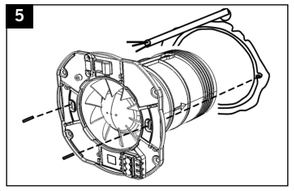
Cut the duct to width of the plasterboard or tiled wall with slight fall to exterior. (Make provisions for cable).

4



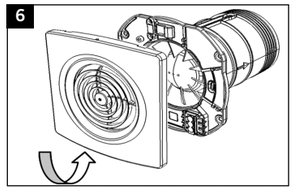
Fill in any gaps with mortar or foam and make good internal and external walls. Make sure that ducting remains circular and screw holes are horizontal.

5



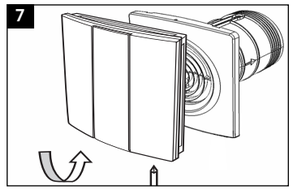
Using No 8 screws, secure fan body to ducting. The electrical cable passes through as appropriate. Wire fan (See wiring details). Ensure metal retaining bracket connecting holes are positioned at the bottom.

6



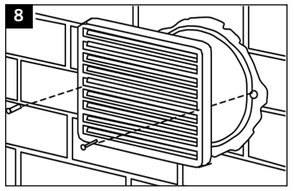
Replace internal grille by hooking the top of grille onto main body then push bottom of grille home.

7

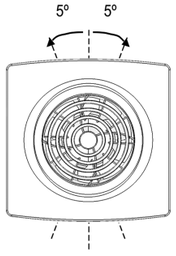


Replace decorative cover by hooking onto the top of grille on the main body then push bottom of cover home. Align screw holes with metal retaining bracket and gently tighten retaining screws at bottom of cover, ensuring no wires are trapped.

8



Screw the protective wall grille over the external duct opening.

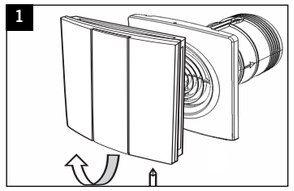


Fine Adjustments

If after installation the fan is not level, the front grille can be turned upto 5º clockwise or 5º anti-clockwise to correct this.

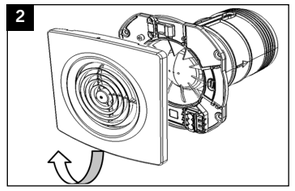
Ceiling Mounting

1



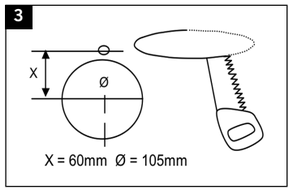
Remove the two retaining screws under decorative cover and then pull bottom of decorative cover while lifting.

2



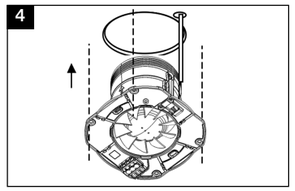
Pull bottom of internal grille while lifting.

3



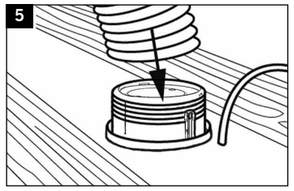
Cut an opening through the ceiling for the fan and electrical cable. Ensure ceiling surface is smooth, clean and dry prior to fixing fan.

4



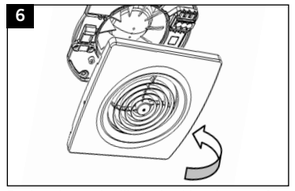
Secure to ceiling using suitable fixing method then Wire fan (See wiring details). Ensure fixing holes on metal retaining bracket are accessible after installation.

5



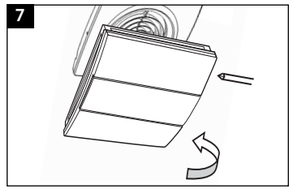
Place flexible ducting over the spigot of the fan. Fit ducting to spigot using ties. Replace front grille.

6



Replace internal grille by hooking the top of grille onto main body then push bottom of grille home.

7



Replace decorative cover by hooking onto the top of grille on the main body then push bottom of cover home. Align screw holes with metal retaining bracket and gently tighten retaining screws at bottom of cover, ensuring no wires are trapped.

8

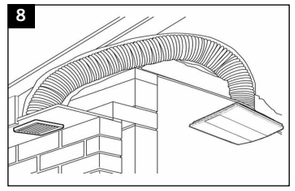


Diagram depicting typical installation ducted through roof soffit.

9

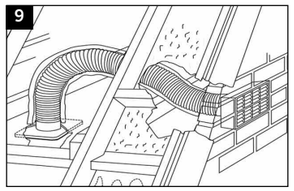
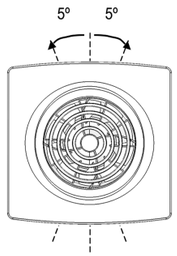


Diagram depicting typical installation ducted through roof to external wall.



Fine Adjustments

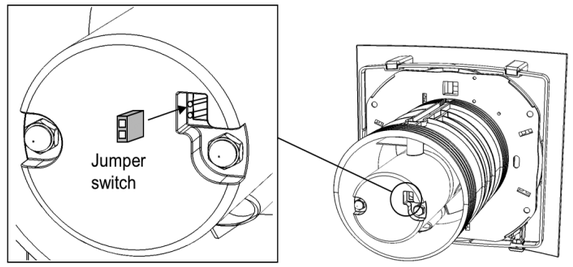
If after installation the fan is not level, the front grille can be turned upto 5º clockwise or 5º anti-clockwise to correct this.

Constant Airflow Settings

WARNING:
Isolate electricity supply before removing or replacing jumper switch.

- Remove jumper switch if 10 L/S constant airflow rate is required.
- Replace jumper switch if 5 L/S constant airflow rate is required.*

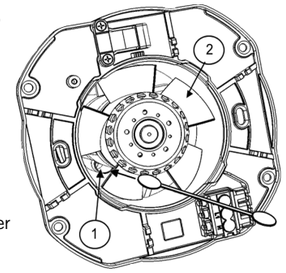
* Factory set at 5 L/S.



To Clean or Service Fan

WARNING:
Always isolate fan from mains supply before cleaning.
Do not use solvents to clean this fan.

- Remove the two retaining screws under decorative cover and then pull bottom of cover while lifting. Pull bottom of internal grille while lifting (as shown in figures 1 and 2).
- The fan may now be cleaned using a brush, cotton bud or damp cloth.
  DO NOT IMMERSE IN WATER.
- Keep points 1 (sensor) and 2 (impeller) clean for best performance.
- After cleaning replace internal grille and decorative cover. Align screw holes with metal retaining bracket and gently tighten screws at bottom of cover (as shown in figures 6 and 7).



To Clean the Serenity Grille

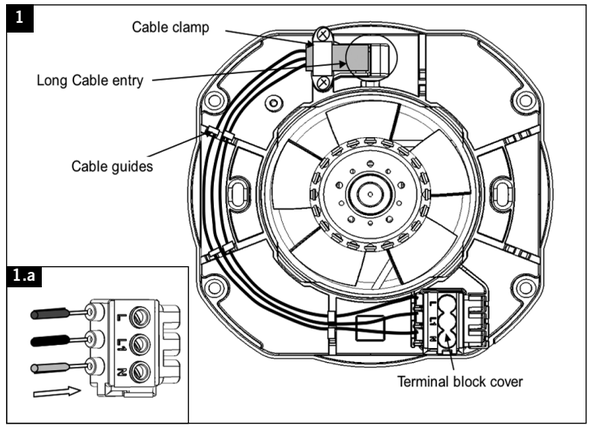
WARNING:
Always isolate fan from mains supply before cleaning.
Do not use solvents or an abrasive cloth to clean the grille.

- Use a soft damp cloth to wipe clean surfaces.
- Use a soft dry cloth to buff surfaces.

Wiring Details

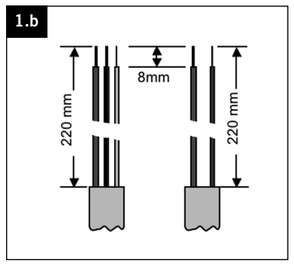
Installation Method 1 - For Long Cable

1



1.a

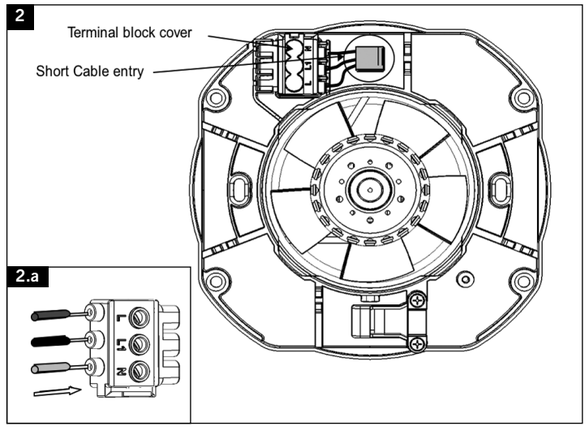
1.b



- Strip cable to correct lengths as shown in diagram 1.b.
- Insert cable through cable entry point, then clamp cable using the cable clamp.
- Use the cable guides to retain the cable wires, then push the wires into the terminal block until cable comes to a dead stop. (Diagram 1.a)
- Peel open the terminal cover, so that terminal screws are visible, then tighten screws and replace terminal cover, making sure that cover is fully replaced.

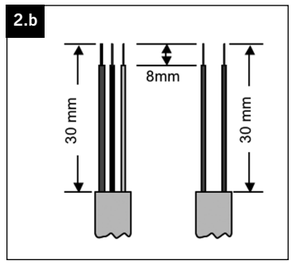
Installation Method 2 - For Short Cable

2



2.a

2.b



- Strip cable to correct lengths as shown in diagram 2.b.
- Break open cable entry point then insert cable.
- Push the wires into the terminal block until cable comes to a dead stop. (Diagram 2.a)
- Peel open the terminal cover, so that terminal screws are visible, then tighten screws and replace terminal cover, making sure that cover is fully replaced.

Declaration of Performance
Residential Ventilation Unit Bisque Serenity Fans

Supplier Name or Trade Mark	Bisque		
Model Identifier	SEFBR / MR		
Options Installed[1]	Local Demand Control (with 1 sensor)		
SEC in [kWh/(m²a)] for Each Climate[2] (Cold, Average, Warm)	-50.2	-25.1	-10.7
SEC Class (Cold, Average, Warm)	A+	C	E
Declared Typology	Unidirectional		
Type of Motor Drive Installed	Multi-Speed		
Type of Heat Recovery[3]	None		
Heat Recovery Efficiency[4]	n/a		
Maximum Flow Rate in [m³/h] / [l/s][5]	54 / 15		
Electric Power Input at Maximum Flow Rate [W][6]	5.5		
Sound Power Level (L_{WA}) in [dB(A)] Maximum / Trickle[7]	31 / 27		
Sound Pressure Level (L_{PA}) in [dB(A)] Maximum / Trickle[8]	14 / 10		
Reference Flow Rate in [m³/h] / [l/s][9]	n/a		
Reference Pressure Difference	0		
SPI in [W/(m³/h)][10]	0.10		
Control Factor and Typology	0.65		
Declared Maximum Internal and External Leakage [%][11]	Internal: n/a External: n/a		
Position and Description of Visual Filter Warning	n/a		
Internet Address for Preassembly / Disassembly Instructions	www.bisque.co.uk		

1: Type of Sensor: Integral Humidity Sensor or via Occupancy Sensor, i.e. switch-live activation.

2: Continuous Ventilation: SEC calculations based on unit running on trickle speed continuously & boost 1 $^{1}/_{6}$ hours per day.

3: Type of Heat Recovery: Recuperative is without humidity recovery and Renewable is with humidity recovery.

4: Efficiency according to EN13141-7:2010 at reference airflow rate @ 0 Pa; and according to EN13141-8:2014 systems without connection.

5: Maximum flow at 0 Pa external pressure (shown in both m^3/h and l/s).

6. Electrical power input at the maximum airflow rate (Watts).

7: Casing noise radiation at both maximum and trickle flow rates at 0 Pa external pressure.

8: Sound Pressure Level measured at 3 metres.

9: If applicable, reference flow rate is 70% of the maximum airflow at 0 Pa external pressure according to EN13141-7:2010 (shown in both m3/h and l/s).

10: In accordance with EN13141-7:2010 at reference flow rate.

11: In accordance with EN13141-7:2010 at reference flow rate, and EN13141-8:2014 systems without connection.

SEC: Specific Energy Consumption

SPI: Specific Power Input

AEC: Annual Electricity Consumption

AHS: Annual Heating Saved