



## Installation guide for SEM motors 1, 2, 7, 8

### BEFORE YOU INSTALL

This installation should only be performed by a qualified tradesperson. Where possible, use a trained Sirius recommended installer (see [Siriusbrand.com](http://Siriusbrand.com)). Sirius will not be held responsible for issues that occur due to installation of product by an unqualified tradesperson.



- Motor must be accessible for servicing purposes. If not, servicing may be refused unless access can be provided.
- The ducting of the rangehood must not be connected to ducting which is used for exhausting other fumes from appliances, such as central heating, boilers etc.
- For the external exhausting of the fumes, comply with the Australian building standards.
- Ventilate the room suitably according to the Australian building standards when the appliance is working together with gas or oil appliances.
- The SEM motor is powered by the rangehood. Standard 10AMP GPO at the point of rangehood required.
- Before connecting the rangehood to the mains supply, make sure that the voltage indicated in the rating plate corresponds to the mains voltage in the home.
- Before carrying out any sort of maintenance or cleaning operation, make sure that the appliance is disconnected from the electrical mains.

### IMPORTANT INFORMATION BEFORE INSTALLATION IN YOUR SIRIUS RANGEHOOD

- **Rangehood and SEM motor cannot be installed back-to-back. There must be a minimum of 2 metres between rangehood and motor for noise reduction reasons.**
- Only use ducting that falls within the necessary minimum and maximum length requirements as specified in the installation guide.
- Try and minimise bends to the ducting for optimum performance.
- Use only suitable ducting as specified by Sirius. Under no circumstances is flexible ducting to be used as it creates unwanted noise, vibration and can place the motor under unnecessary stress resulting in premature failure of the SEM motor.
- Under no circumstances is the duct diameter to be reduced. A constant minimum diameter of 150mm for the SEM 1 / 2 / 5 must be maintained at all times. For SEM 7 / 8 motors a constant diameter of 200mm must be maintained at all times.
- Read the mounting and operating instructions of the rangehood carefully.
- The manufacturer cannot be held responsible for a decrease of the airflow or for an increase of noise level caused by non-compliance with the instructions above.

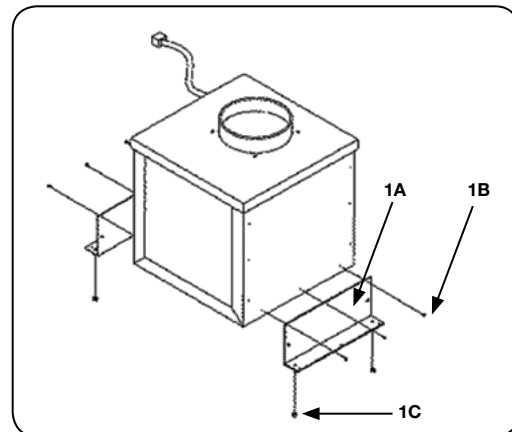
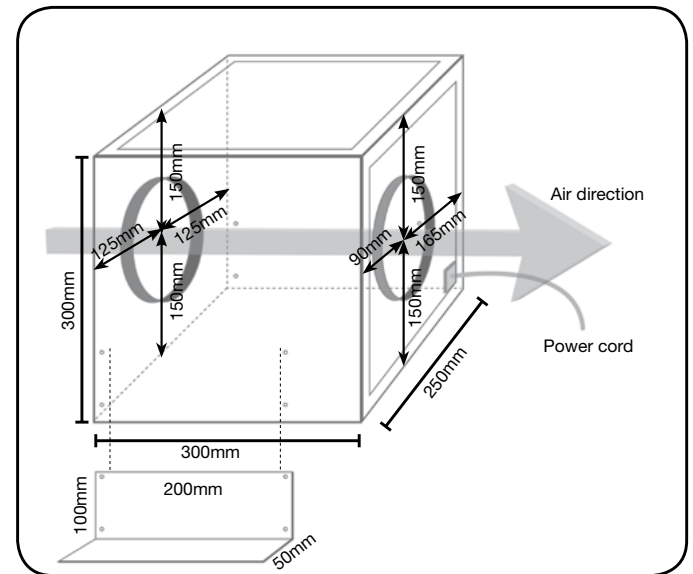
**6 Year  
Warranty**  
**when Sirius ducting is used.**  
Full replacement warranty on parts and labour.

For ease of installation the SEM 1 motor can be fixed inside the roof cavity or positioned underneath the floor of the house, providing the SEM motor is protected from the elements. The SEM motor uses mounting brackets to fix it securely to the predetermined location. This location must be accessible.

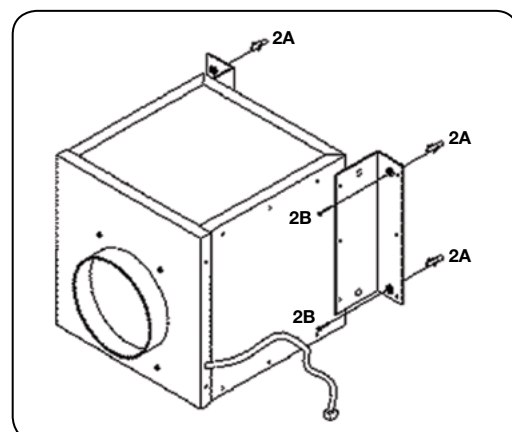
1. After determining the location of the motor (no back-to-back installation, no closer than 2 metres and no further than 7 metres from the rangehood). The motor should ideally be located closer to the venting point for maximum air movement. Insert the supplied rubber anti-vibration caps into holes on the supplied brackets. The rubber caps must be inserted on the side of the bracket that fixes to the structure. These caps will reduce any vibration and reduce the noise level of the motor.  
(Fig 1. [1C])
2. Using the supplied screws connect the brackets (Fig. 1A) to the motor (Fig. 1B)
3. Align the SEM motor brackets with predetermined location and mark the points required for pre-drilling of the holes.
4. After pre-drilling the holes, insert the plastic dowels (Fig. 2A) and then fix in place using the supplied screws (Fig. 2B).

5. Connect a length of Sirius 150mm ducting to the collar of the rangehood and secure with a URC25/215 ring clamp (if using semi-rigid ducting).
6. Run the length of ducting to the location of the SEM motor and secure to the inlet collar and secure with another URC25/215 ring clamp (if using semi-rigid ducting).
7. Run another length of 150mm ducting from the outlet collar on the SEM motor to the predetermined exit point/vent.

8. The SEM motor has a 7 metre long cable with a 6 pin connection and an earth wire. Run the cable from the location of the rangehood and connect the 6 pin connection, then connect the earth wire to the rangehood by removing a screw from the rangehood housing and then fixing it in place by reattaching the screw.
9. The motor will draw power itself from the rangehood which is plugged into a 10AMP powerpoint located within 1 metre of the rangehood.

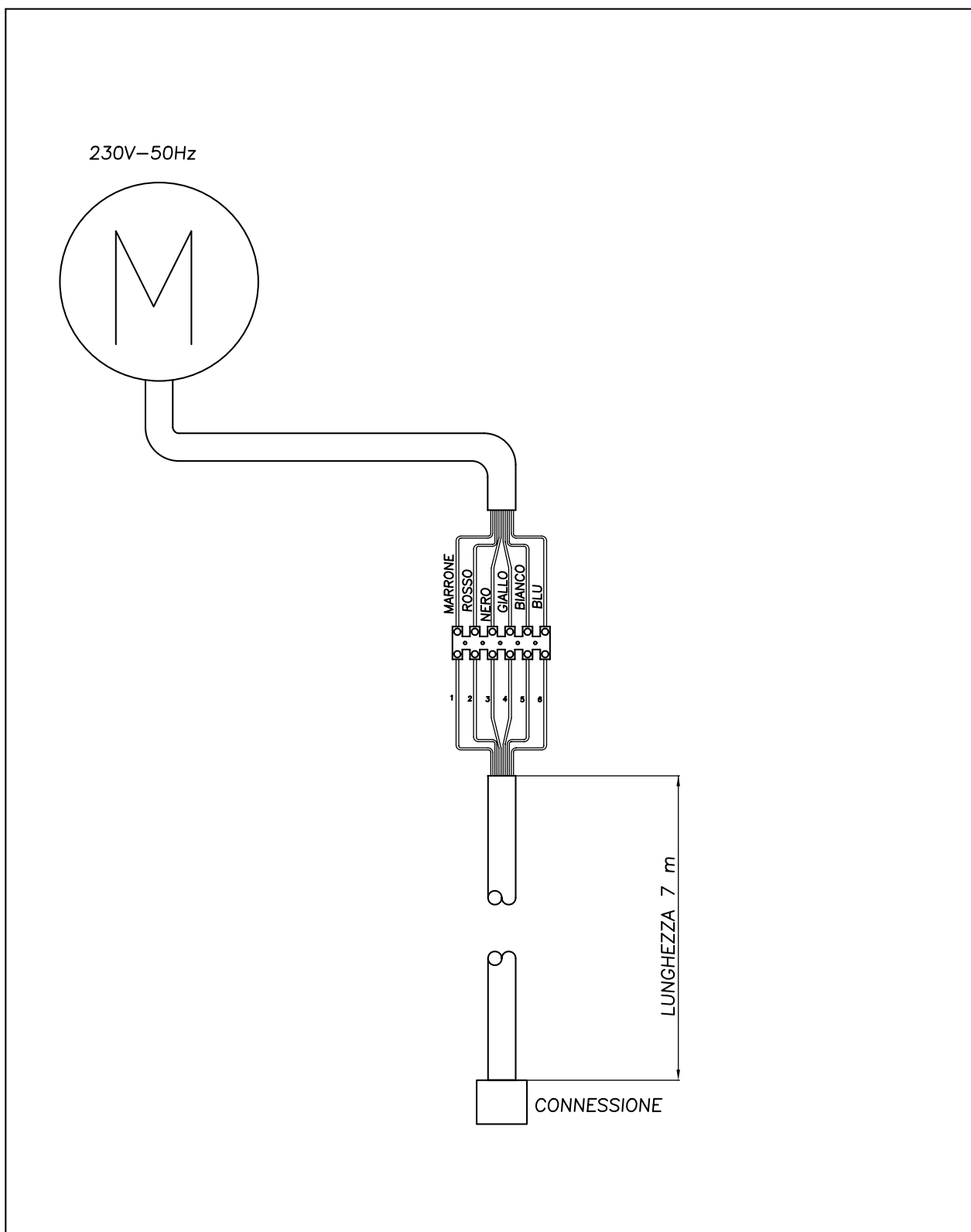



(Fig.1)



(Fig. 2)

# SEM1 MOTOR WIRING DIAGRAM



				0.6 mm	
POS.	DENOMINAZIONE	N°	MATERIALE	SPESSORE	N° DISEGNO
DISEGNATO:	DENOMINAZIONE:  <i>SCHEMA ELETTRICO TYPE SEM1</i>	INDICE MODIFICA	6	 <b>Sirius</b>	
<i>B.FABRIZIO</i>			5		
VERIFICATO:			4	N° DISEGNO: <b>SHM-014</b>	
—			3		
SOSTITUITO DAL N°:	SOSTITUISCE IL N°:	ATTREZZATURA N°:	FOGLIO:	SCALA:	DATA:
—	—	—	3xA3	20:1	11/10/00
Il presente disegno, o parte di esso non può essere riprodotto in nessuna forma, con nessun mezzo e per nessuno scopo, senza autorizzazione della proprietà.					

## SEM2 MOTOR

The SEM2 motor is designed to exhaust fumes and odours silently and effectively. It must be installed on an external wall a minimum of 500mm from the ground and connected to the rangehood.

- **Note: the SEM2 motor cannot be installed back-to-back with the rangehood.**
- Note: due to OHS regulations if the SEM2 motor is positioned higher than 2 metres from the ground, additional servicing costs may incur. Please note: motor must be accessible.

Note: Due to the noise of the motor itself once installed, be sure to check that if it located close to a boundary fence or you are in a built-up area that you have checked with neighbours or local council regulations prior to installation.

### Motor location

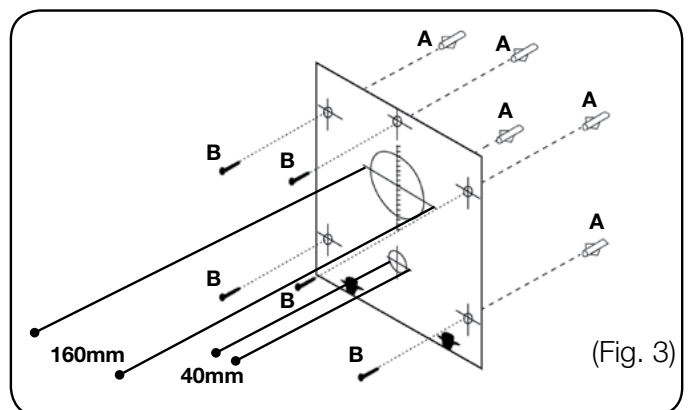
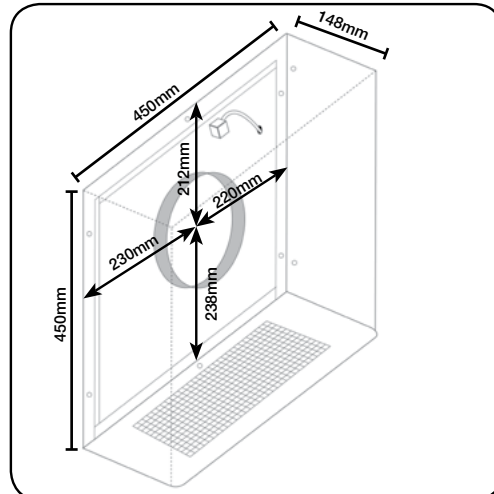
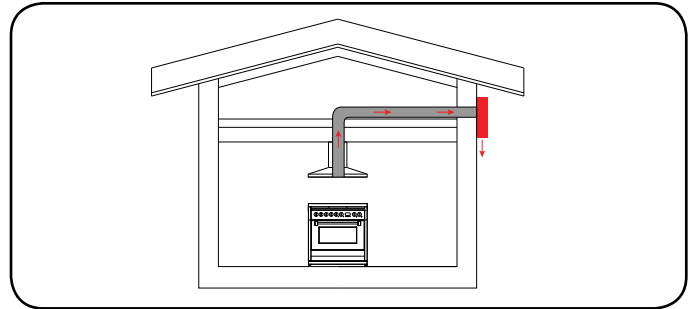
1. **Please note that the SEM2 motor must be installed at a minimum distance of 2 metres from the outlet collar on the rangehood.** A maximum of 7 metres must not - under any circumstances - be exceeded. All SEM2 motors come fitted with a 7 metre long control cable.

### Installation

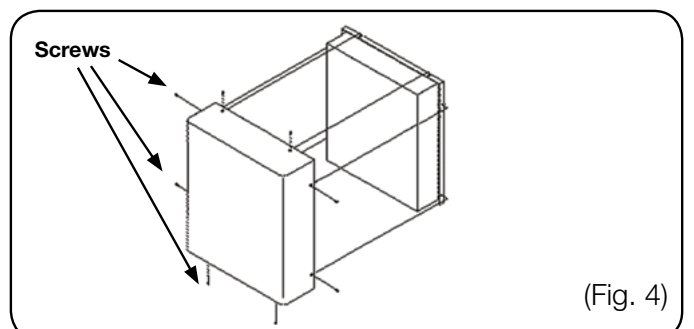
1. The installation of the SEM2 motor must only be made by a qualified technician/tradesperson. Where possible use a Sirius recommended installer (See [www.siriusbrand.com](http://www.siriusbrand.com) for a list under the support tab)
2. After predetermining the location of the motor, make sure you are within the recommendations above in regards to min/max distances. Use the supplied drill hole template that is supplied with SEM2 motor and drill support holes, paying careful attention to make sure that the area behind is clear of electrical cables and piping/plumbing. These holes are to be drilled with an 8mm drill bit.
3. 160mm diameter hole to be cut into house for 150mm ducting. Please note that if a solid masonry block wall or brick wall is being used that a series of holes may need to be drilled and then the remainder of the hole be knocked out by hand with a hammer and chisel. If a masonry hole bit is available, this will provide the best result.
4. A hole must also be made to contain the plastic pipe that the SEM2 wiring loom is fed through. 40mm hole is required (Fig. 3). 40mm drill bit required.
5. Remove the stainless steel body to expose the motor and fixing points by removing the external screws located on the outside of the SEM2 motor (Fig.4).
6. Run the length of semi-rigid/solid duct through the pre-cut hole and attach to the SEM2 collar. Secure in place with a URC-25/215 ring clamp, making sure it is fastened tightly and will not come off. Feed the cable from the motor through the 40mm plastic pipe at the same time.
7. Lining up the fastening points with the pre-drilled holes, secure the motor in place using the supplied plastic dowels and the supplied screws.
8. Replace the stainless steel body by following the step 5 in reverse, making sure that the holes line up perfectly to ensure the unit is sealed correctly. **Do not silicone motor to the wall.**
9. Run the length of ducting back to the location of

the rangehood and secure to the outlet collar on the rangehood using another URC25-215 ring clamp.

10. Run the cable from the motor to the rangehood and plug in the 6 pin plug to the top of the unit. There is a 2 pin plug that is the speed control that needs to be plugged in as well. Remove the red dummy plug and connect the 2 pin plug. The motor must then be earthed to the body of the rangehood using the green and yellow cable by unscrewing one of the body screws, connecting the earth wire to the rangehood by tightening the screw back up.
11. The SEM2 motor will draw power directly from the rangehood which needs to be plugged into a 10AMP powerpoint located within 1 metre of the rangehood.



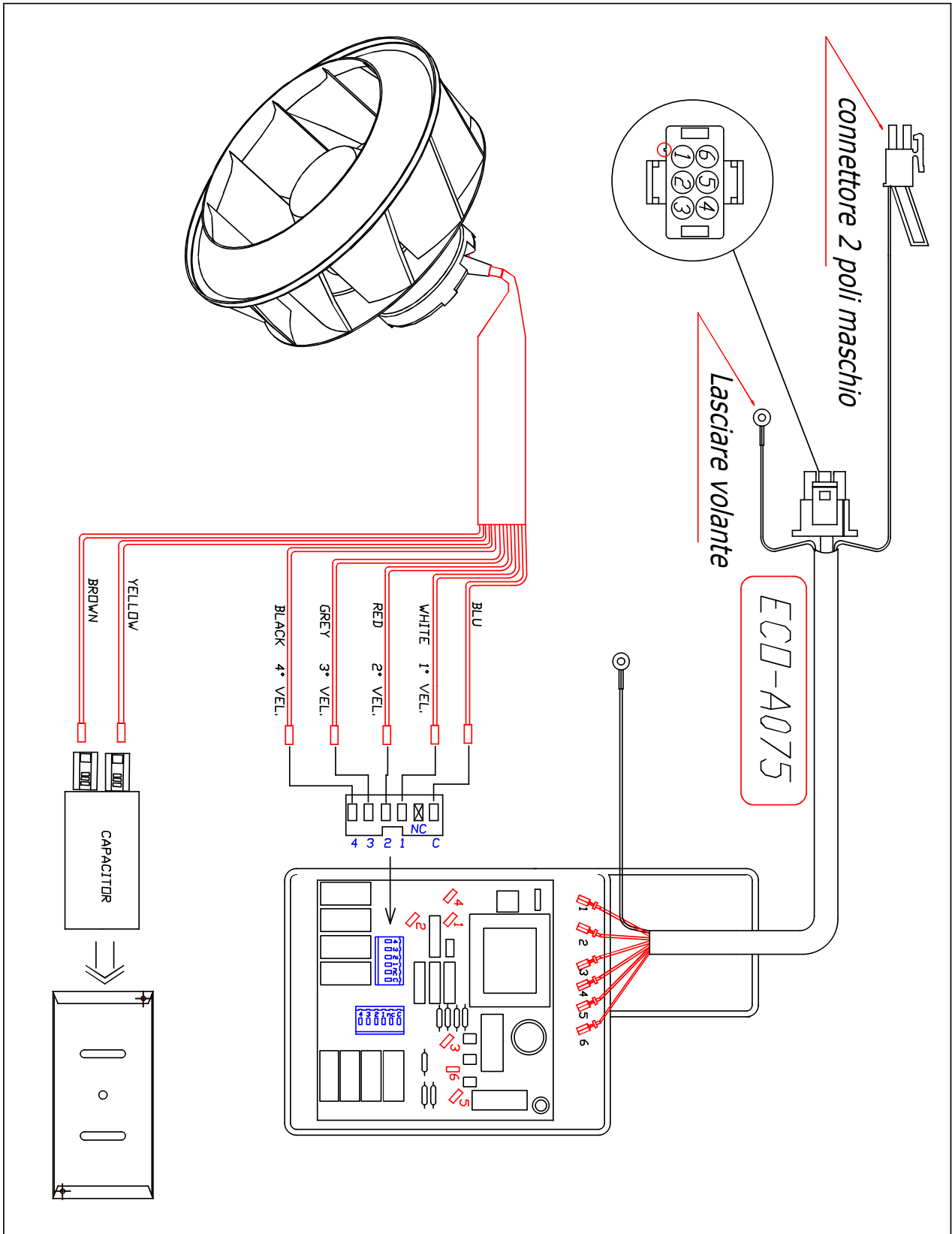
(Fig. 3)



(Fig. 4)

# SEM2 MOTOR WIRING DIAGRAM

## WIRING DIAGRAM SEM2



## SEM7 MOTOR

The SEM7 motor is designed to exhaust fumes and odours silently and effectively. It must be installed on an external wall a minimum of 500mm from the ground and connected to the rangehood.

Note: due to OHS regulations if the SEM7 motor is positioned higher than 2 metres from the ground, additional servicing costs may incur. Please note, motor must be accessible for servicing.

Note: due to the noise of the motor itself once installed, be sure to check that if it is located close to a boundary fence or you are in a built up area that you have checked with neighbours or local council regulations prior to installation.

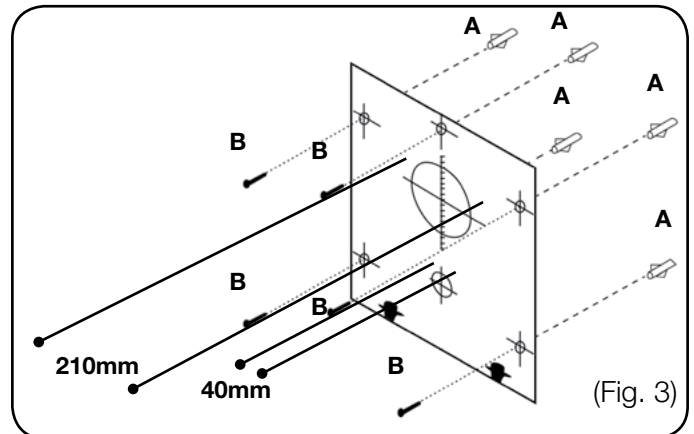
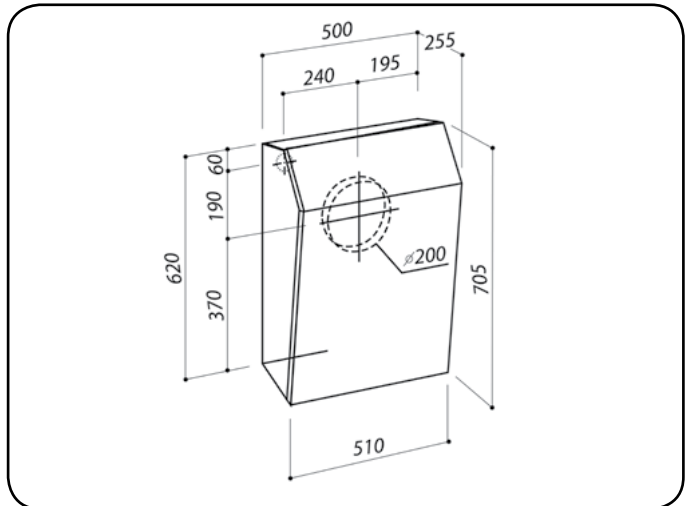
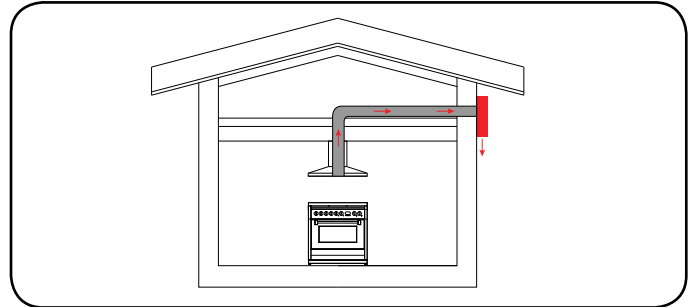
- **Note: the SEM7 motor cannot be installed back-to-back with the rangehood.**

### Motor/ducting and electrical connection installation

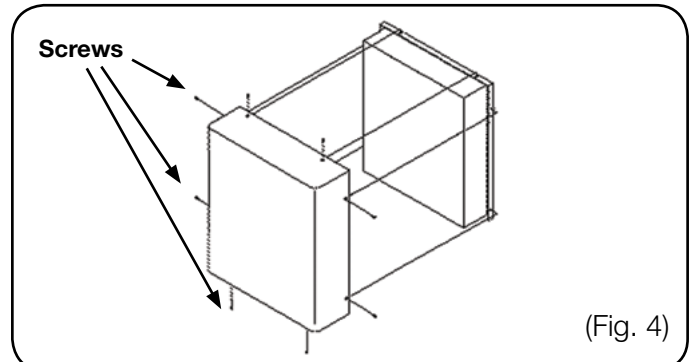
- Please note that the SEM7 motor must be installed at a minimum distance of 2 metres from the outlet collar on the rangehood. A maximum of 7 metres must not under any circumstances be exceeded. All SEM7 motors come fitted with a 7metre long control cable.
1. The installation of the SEM7 motor must only be made by a qualified technical/tradesperson. Where possible use a Sirius recommended installer. (See [www.siriusbrand.com](http://www.siriusbrand.com) for a list under the support tab)
  2. After predetermining the location of the motor, make sure you are within the recommendations above in regards to min/max distances. Use the supplied drill hole template that is supplied with the SEM7 motor and drill support holes, paying careful attention to make sure that the area behind is clear of electrical cables and/or piping & plumbing. These holes are to be drilled with an 8mm drill bit.
  3. 210mm diameter hole to be cut into house for 200mm ducting. Please note that if a solid masonry block wall or brick wall is being used that a series of holes may need to be drilled and then the remainder of the hole be knock out by hand with a hammer and chisel. If a masonry hole bit is available, this will provide the best result.
  4. A hole must also be made to contain the plastic pipe that the SEM7 wiring loom is fed through. 40mm hole is required. 40mm drill bit required.
  5. Remove the stainless steel body to expose the motor and fixing points by removing the external screws located on the outside of the SEM7 motor. (Fig.4)
  6. Run the length of semi-rigid/solid duct through the pre-cut and attach to the SEM7 collar. Secure in place with a URC-25/215 ring clamp, making sure it is fastened tightly and will not come off. Feed the cable from the motor though the 40mm plastic pipe at the same time.
  7. Lining up the fastening points with the pre-drilled holes secure the motor in place using the supplied plastic dowels and the supplied screws.
  8. Replace the stainless steel body by following the step 5 in reverse making sure that the holes line up perfectly to ensure the unit is sealed correctly. **Do not silicone motor to the wall.**
  9. Run the length of ducting back to the location of the rangehood and secure to the outlet collar on the rangehood using another URC25-215 ring clamp.
  10. Run the cable from the motor to the rangehood and plug in the 6 pin plug to the top of the unit. There is a

2 pin plug that is the speed control that needs to be plugged in also, removal of the red capped dummy plug will expose the location. The motor must then be earthed to the body of the rangehood using the green and yellow cable by unscrewing on of the body screw, connecting the earth wire to the rangehood by tightening the screw back up.

11. The SEM7 motor will draw power directly from the rangehood which needs to be plugged into a 10AMP powerpoint located within 1 metre of the rangehood.

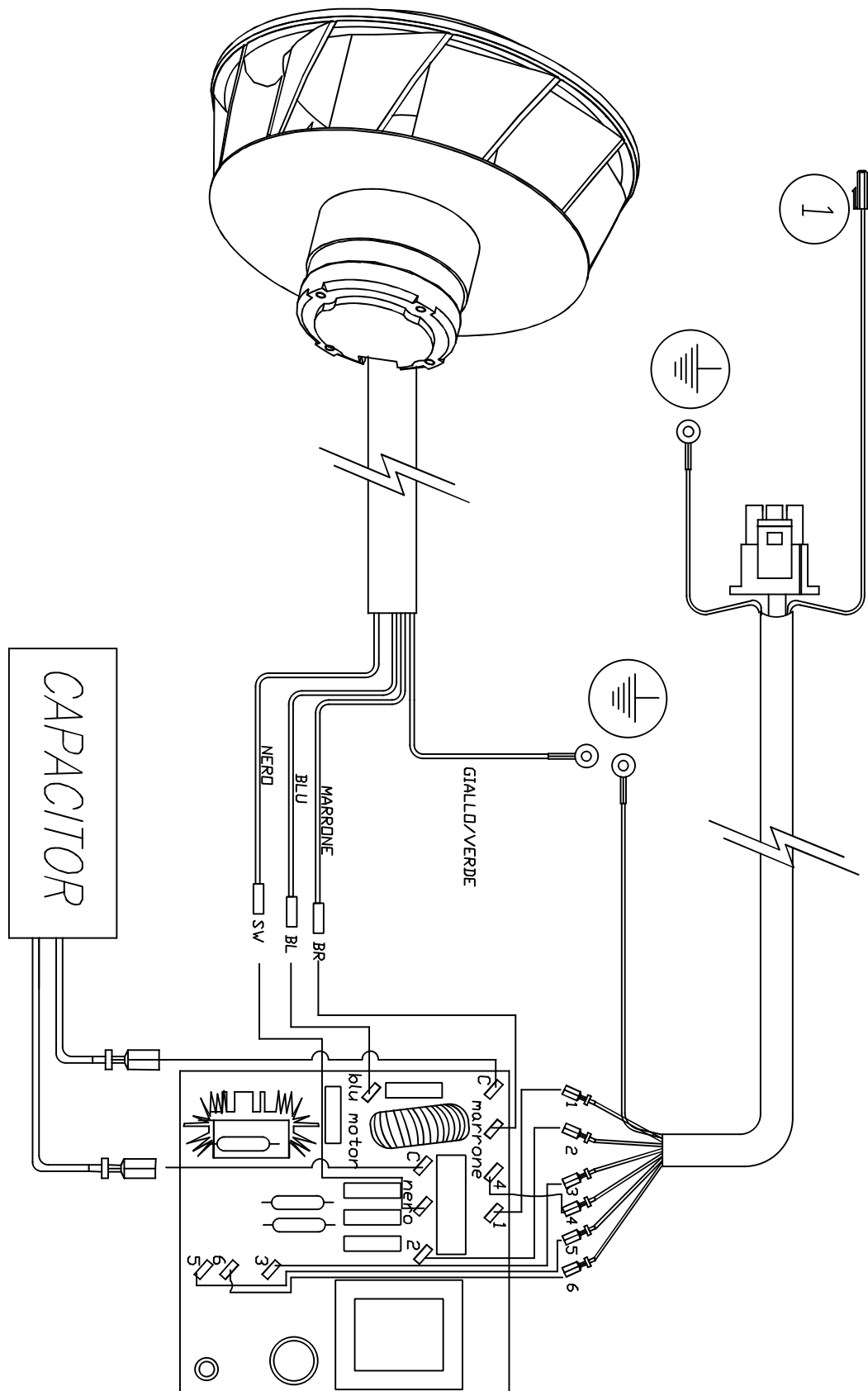


(Fig. 3)



(Fig. 4)

## SEM7 MOTOR WIRING DIAGRAM



## SEM8 MOTOR

For ease of installation the SEM8 motor can be fixed inside the roof cavity or positioned underneath the floor of the house, providing the SEM8 motor is protected from the elements. The SEM8 motors uses mounting brackets to fix it securely to the predetermined location. This location must be accessible.

- **Note: the SEM8 motor cannot be installed back-to-back with the rangehood.**

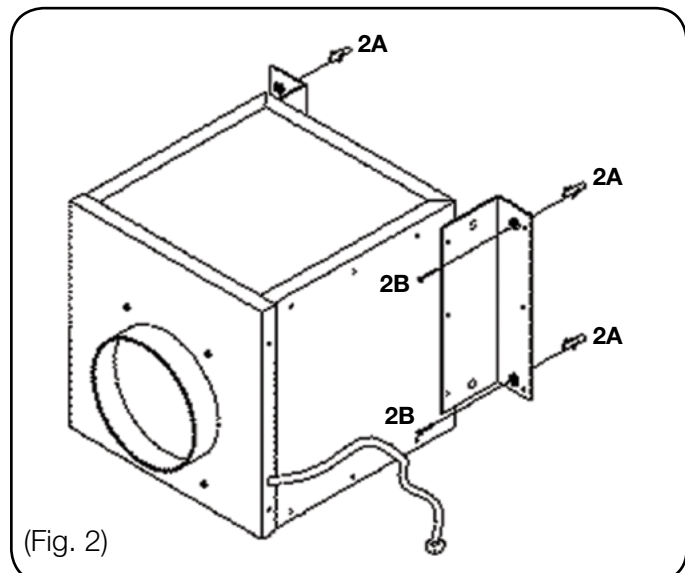
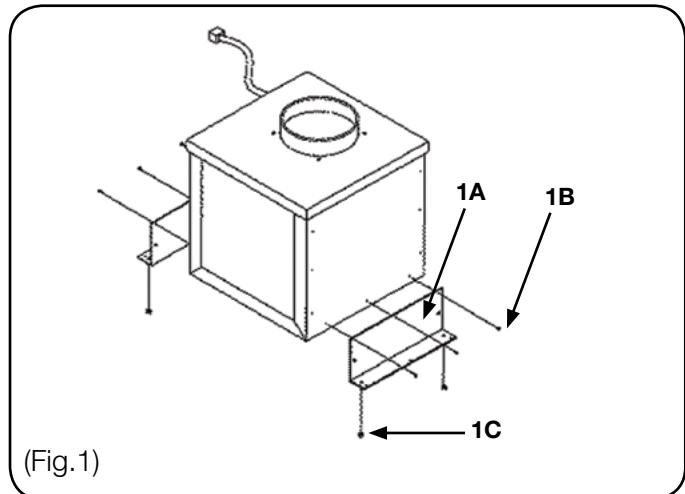
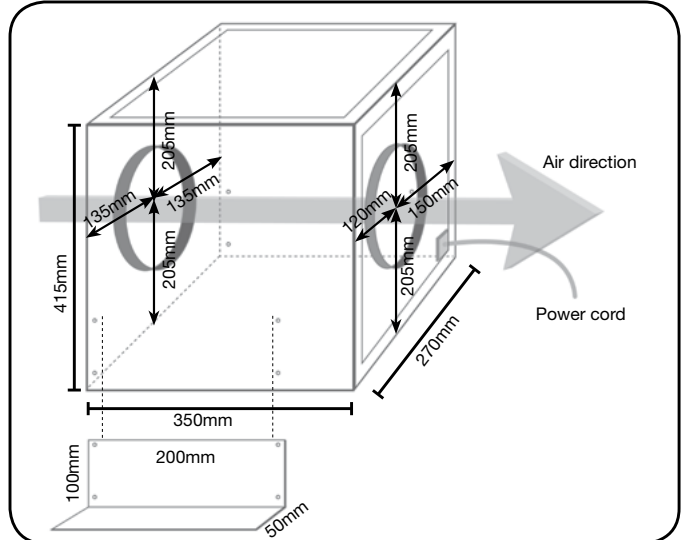
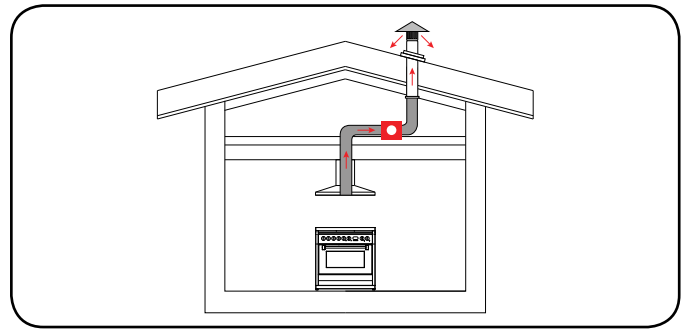
### Motor/ducting and electrical connection installation

1. After deciding the location of the SEM8 motor (no back-to-back installation, no closer than 2 metres and no further than 7 metres from the rangehood) insert the supplied rubber anti-vibration caps into the holes on the supplied brackets. The motor should be ideally located closer to the venting point for maximum air movement. The rubber caps must be inserted on the side of the bracket that fixes to the structure. These caps will reduce any vibration and reduce the noise level of the motor.  
(Fig1. [1C])
2. Using the supplied screws connect the brackets (Fig. 1A) to the motor (Fig. 1B).
3. Align the SEM8 motor bracket with predetermined location and mark the points required for pre-drilling of the holes.
4. After pre-drilling the holes, insert the plastic dowels (Fig. 2A) and then fix in place using the supplied screws (Fig. 2B).

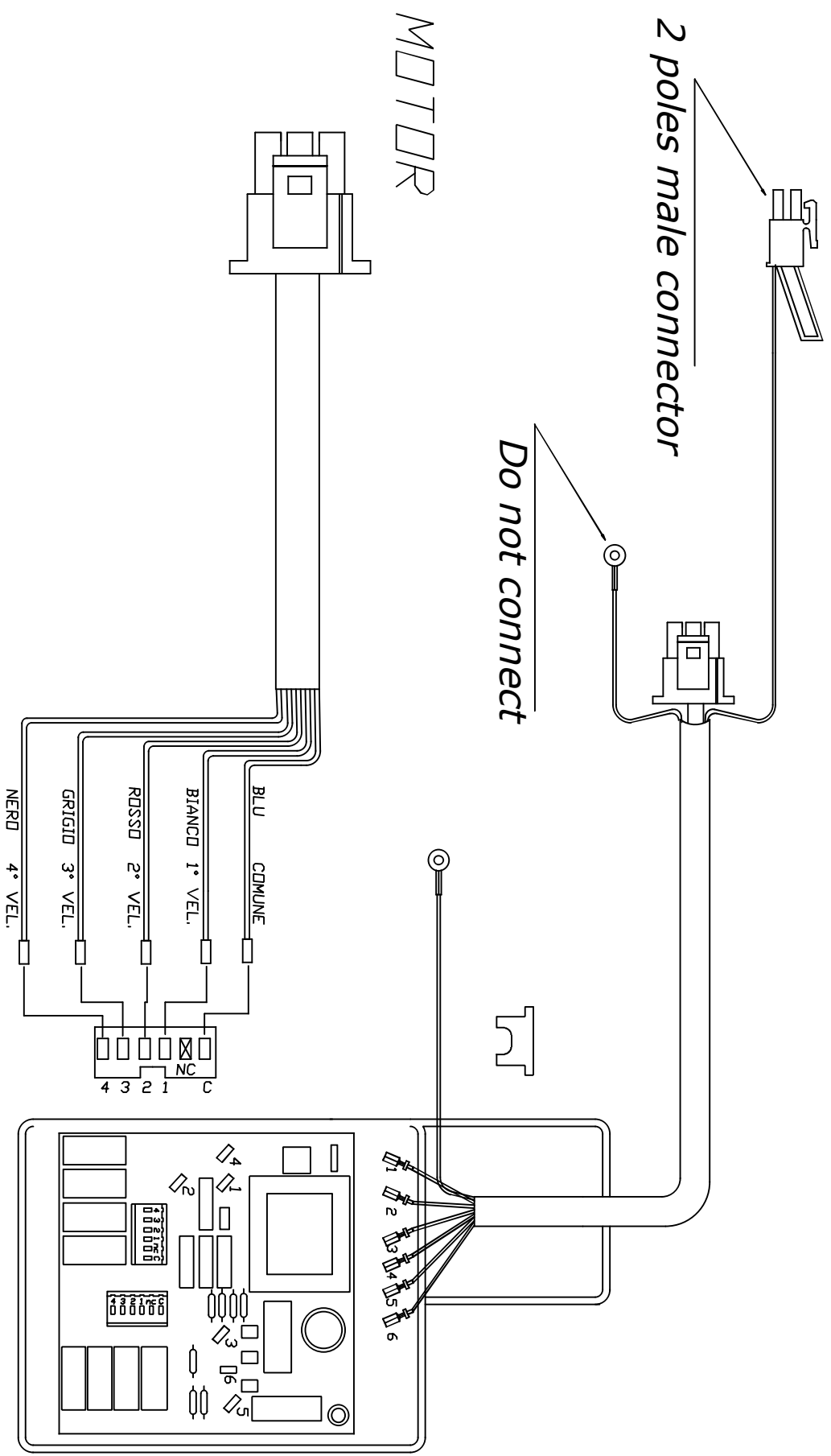
Make sure you have taken note of the inwards and outwards arrows on the SEM8 motor and the motor is positioned accordingly.

5. Connect a length of Sirius 200mm ducting to the collar to the rangehood and secure with a URC25/215 ring clamp (if using semi-rigid ducting).
6. Run a length of ducting to the location of the SEM8 motor and secure to the inlet collar and secure with another URC25/215 ring clamp (if using semi-rigid ducting).
7. Run another length of 200mm ducting from the outlet collar on the SEM8 motor to the predetermined exit point/vent. See Sirius website for wall/room and eave venting options or contact your nearest Sirius retail partner.
8. Run the cable from the motor to the rangehood and plug in the 6 pin plug to the top of the unit. There is a 2 pin plug that is the speed control that needs to be plugged in as well. Remove the red dummy plug to expose the location. The motor must then be earthed to the body of the rangehood using the green and yellow cable by unscrewing one of the body screws, connecting the earth wire to the rangehood by tightening the screw back up.
9. The motor will draw power itself from the rangehood which is plugged into a 10AMP powerpoint located within 1 metre of the rangehood.

Roof venting option shown



SEM8 MOTOR WIRING DIAGRAM



**ARISIT PTY LIMITED** (Australia)

ABN 23 091 515 294

40-44 Mark Anthony Drive  
Dandenong South VIC 3175

**P:** Sales & Service: 1300 762 219

**F:** Sales & Service: (03) 9768 0838

**E:** arisit@arisit.com

**ARISIT PTY LIMITED** (New Zealand)

1A Howe Street Newton, Auckland 1145

PO Box 68-140 Newton, Auckland 1145

**P:** (09) 306 1020 - Fax: (09) 302 0077

**E:** sales2@aristonappliances.co.nz

[www.arisit.com](http://www.arisit.com)

[www.arisitwarranties.com.au](http://www.arisitwarranties.com.au)

[www.siriusbrand.com](http://www.siriusbrand.com)

**6 Year  
Warranty**

**when Sirius ducting is used.**

Full replacement warranty on parts and labour. Check website for T&Cs.

Sirius Hoods and ducting products are only available from our select group of Sirius Professional Stockists nationwide. For the latest list of Sirius Stockists near you, please refer to [www.siriusbrand.com](http://www.siriusbrand.com)

All efforts have been made to ensure that the information provided in this brochure is correct at the time of printing. Due to continuous product improvement and ongoing development, Sirius reserves the right to make changes to the products and technical data without prior notice. Some products appearing in this brochure may be for illustrative purposes only. Diagrams are indicative measures only. Prior to commencing cabinetry cutouts the operating/installation instructions accompanying the product must be referred to at [www.siriusbrand.com](http://www.siriusbrand.com)

**10 year warranty on SEM motors.**