

**General Instructions
DWV Series**



FITTING AND WIRING INSTRUCTIONS

Important recommendations

1. The installation must be in accordance with the electrical standards and regulations in force in your country.
2. Ensure the shutter arm is located into the shutter slot when the external grill is fitted. Finally check for correct running and shutter operation.
3. If the fan operates as an extractor in a room with a boiler or any other type of appliance requiring air for combustion. check that air replacement inlets are sufficiently sized.
4. Ensure that the values of voltage and frequency of main supply are compatible with those indicated on the rating plate of the appliance.
5. Please ensure that a suitable isolator switch is provided in the electrical circuit. The DWV Series fans are of Class II (double Electrical Insulation), and therefore do not need to be connected to earth.
6. Check that the appliance is in perfect conditions when unpacking it, as any manufacturing fault is covered by the KRUGER guarantee.

Installation in windows with a minimum thickness of 3 mm and walls or panels with a maximum thickness of 25 mm

- Cut a hole following the dimensions indicated on fig. A
- Dismantle the DWV fan in accordance with the following instructions.
 - Fig. 1** - Loosen the retaining screw (b) fixing the internal front cover (a)
 - Fig. 2** - Remove the internal front cover (a) by pressing the knobs (c)
 - Fig. 3** - Unscrew the 3 bolts (d) fixing the external grille (e) and separate it from the support plate (f).

Install the DWV fan as follows:

- Fig. 4** - Pull the external grille (e) towards you and turn the rubber mounting (g) on the screws (h), towards the inner side of the grille.
- Fig. 5** - From the outside, place the external grille (e) over the hole in the glass. From the inside, turn and push the rubber mountings (g) until they are located against the rubber keeping the external grille (e) in its correct position.
- Fig. 6** - Mount the support plate (f) to the screws (h) of the external grille (e) and tighten the bolts (d) to suit the thickness of the glass.
 - Glass thickness 3 -14 mm: Fig. 6a.
 - Panel thickness 14 -25 mm: Fig. 6b

Tighten the screws taking care not to flatten the rubber joints between the support plate and the external grille.

Ensure that the glass is not in contact with the plastic frame.

Fig. 7 - Make the necessary hole in the gland (i), and feed the electrical cables through the clamp (p) and correct them in the terminal box (k).

Fig. 8 - Mount the internal cover (a) by slotting the rectangular openings (l) on the top of the cover (a) into the receivers (m) of the support plate (f) until the two knobs (c) are correctly positioned.

Fig. 9 - Tighten the locking screw (b).

Wall mounting (extended fixing rod set accessory must be used)

- Cut a hole in the wall where the unit is to be mounted, in accordance with the dimensions indicated in Fig. A.
- Measure the thickness of the wall and cut a threaded rod (n) 5mm shorter than this thickness.
- Use the appliance to mark on the wall the position of the fixing holes for the support plate (f), drill the fixing holes and insert the wall plugs.
- Dismantle the DWV fan in accordance with the following instructions:

Fig. 10- Loosen the retaining screws (b) fixing the internal front cover (a)

Fig. 11- Remove the internal front cover (a) by pressing the knobs (c)

Fig. 12- Loosen the 3 bolts (d) fixing the internal grille (e) and separate it from the support plate (f).

Install the DWV fan as follows:

- Fig. 13** - Pull the internal grille (e) towards you and take the rubber mountings (g) away from the screws (h).
- Fig. 14** - Fix the threaded rods (n) to the screws (h) on the external grille (e) with the threaded couplers (p) supplied and put back the rubber mountings (g) on the rods.
- Fig. 15** - From the outside, place the external grille (e) over the hole in the wall. From the inside, turn and push the rubber mountings (g) until they are located against the wall keeping the external grille (e) in its correct position.
- Fig. 16** - Mount the support plate (f) to the threaded rods (n) and tighten the bolts (d) to suit the length of the rod sticking out from the support plate (f).

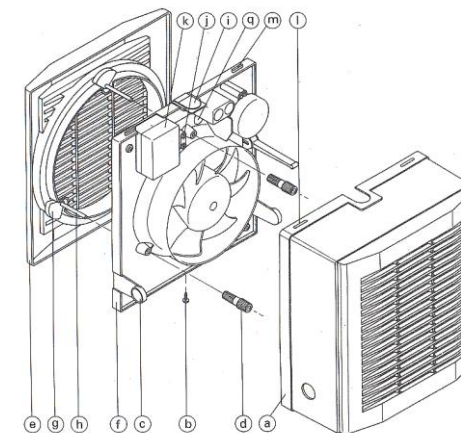
Fig. 17 - Fix the support plate (f) to the wall and tighten the bolts (d).

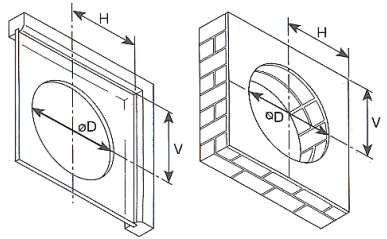
Fig. 18 - Depending on the position of the incoming electrical cables, make a hole on the gland (i) on the front cover (a) or in the gland (p) on the support plate (f), introduce the electrical cables through the clamp (p) and connect to the terminal box (k).

Fig. 19 - Mount the internal cover (a) by slotting the rectangular openings (l) on the top of the cover (a) into the receivers (m) of the support plate (f) until the two knobs (c) are correctly positioned.

Electrical wiring:

The electrical installation should be made with a multipolar isolating switch with an opening distance between contacts of at least 3 mm. Those appliances can be connected through the electrical accessory CR-150, taking into account that the bridge must be changed from 5-1 to 5-2 (Fig. B). They can also be connected following the chart on Fig. C.





(mm)	DWV 150	DWV 230	DWV 300
ØD (Min)	187	259	327
ØD (Max)	190	262	330
ØH (Min)	150	185	220
ØV (Min)	160	200	230

Fig. A

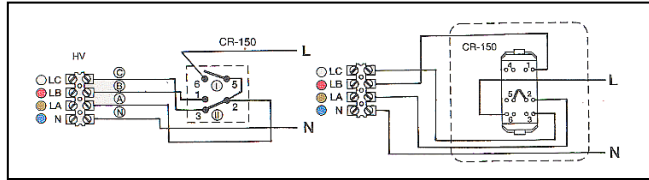


Fig. B

Ⓝ- Neutral ⓐ- Open ⓑ- Extract ⓒ-Intake

* Caution : The connection bridge must be changed from 5-1 to 5-2.

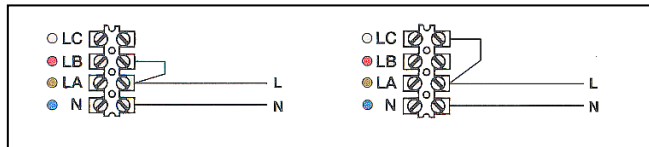
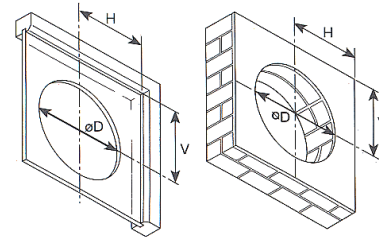


Fig. C



(mm)	DWV 150	DWV 230	DWV 300
ØD (Min)	187	259	327
ØD (Max)	190	262	330
ØH (Min)	150	185	220
ØV (Min)	160	200	230

Fig. A

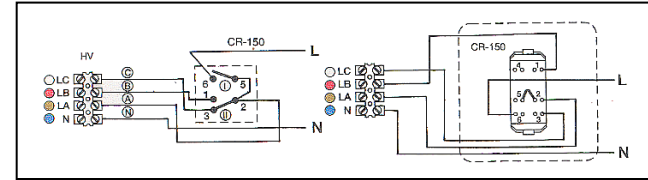


Fig. B

Ⓝ- Neutral ⓐ- Open ⓑ- Extract ⓒ-Intake

* Caution : The connection bridge must be changed from 5-1 to 5-2.

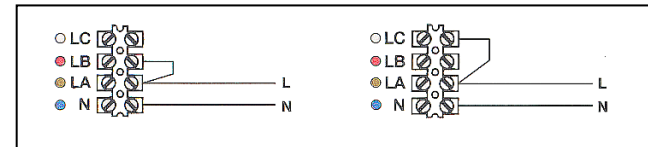


Fig. C