

# POLAR TWO DOOR

## Installation Instructions



## The assembly box contains:

- 12 wood screws 5 x 65 mm for securing the cabinet sides
- 16 wood screws 5 x 60 mm for securing the cabinet doors
- 28 white decorative caps with a washer to conceal the screws
- 46 wood screws 4 x 30 mm for securing the elements, the rails for the interior fittings and legs
- 4 screws 4.5 x 30 mm for securing the top fittings
- 16 self-drilling screws 4.2 x 16 mm
- 4 wood screws 5 x 50 mm for securing the top hinge
- 2 pins m8 with washer and nut for the bottom hinge
- 2 extra shims for use where necessary
- 1 ventilation grille for installation on the plinth
- 6 plinth legs
- 2 white fittings for floor and ceiling. The largest must be fitted on the ceiling
- 1 Allen key (Unbraco)
- 2 self-adhesive cable trunkings are included with the unit
- 1 tube white sealing compound
- 2 white aluminium brackets pre-fixed to the floor and the ceiling with 16 m6 x 60 mm screws
- 2 switches, lamps and wiring
  - one set accompanies the unit, and the other is in the installation box.
- 2 brackets for fixing the cabinet to the wall

## Internal fittings:

- 4 shelves (1050 x 300 mm)
  - 2 rails for fixing the shelves
  - 10 shelves for the door
- Accessory pack, where required

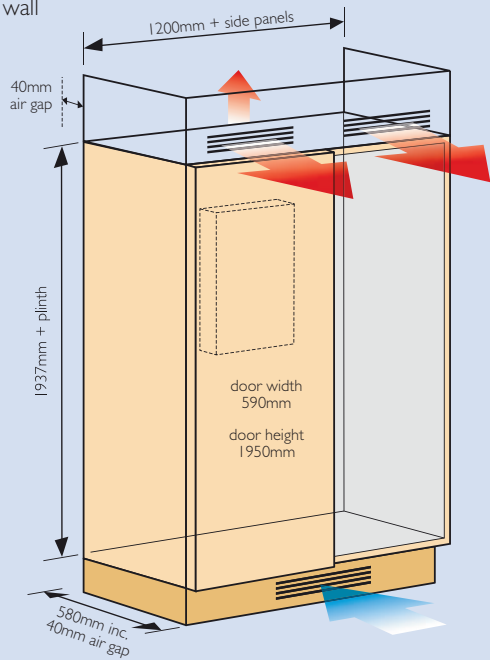




Fig. 1



Fig. 2



Fig. 3

## Installation instructions for the Polar Two Door

The Polar Two Door cabinet arrives packed in an upright wooden crate containing the unit, interior fittings and the accessory pack, if required (in its own packaging).

### Adaptation to different kitchen models

The depth of the side panels and/or the work surface determine the depth of the cabinet. The cold storage room may need to be pulled forwards because the work surface should not be more than 10 mm deeper than the side panel. If not, the doors will interfere with the work surface. The cabinet is prepared for side panels with  $D = 593$  mm. If the side panels are deeper; e.g. 600 mm, the cabinet must be pulled forwards into the room by a corresponding amount.

### Power supply

Contacts are positioned centrally above and below the rear wall. Both must be accessible in the event of service. The upper contact is positioned 220 cm from the base or in an adjoining high-level wall unit. The lower contact is positioned under the cabinet and can be used for the heating cable in the central upright in the event that condensation forms on it during extra-hot periods.

### Recommended tools

Cordless drill with star (Torx) and hex (Unbraco) bits, spirit level, sealant gun, hammer and awl.

### IMPORTANT!

It is essential that the elements are fixed together securely during the entire installation process. The adjustment profiles must seal completely with adjoining elements so that the cabinet is airtight and level.

1 All the elements are covered with a protective film. This must be removed before continuing with the installation. This is particularly important on the rear side of the back wall. If not, the film may work loose and block the air gaps.

2 Start by installing the six legs on the underside (veneered side) of the base. The holes are pre-drilled. Screw the brackets for the legs securely in place with  $4 \times 30$  mm wood screws. Make sure that the pointed part faces in towards the middle of the base (**Figure 1**). Use the hammer to ensure that the steel legs are properly secured (**Figure 2**).

3 Turn the base and position it facing towards the wall. Use a spirit level to regulate the height of the legs by adjusting the bottom part. The height of the legs can be regulated by 2.5 cm, from 14.5 to 17 cm. If it is wished for the plinth to be even lower, the steel legs can be cut (**Figure 3**). A free air passage must be maintained under the cabinet, however, so that the unit has access to cool air from below. The cabinet must **never** be placed on an airtight plinth.



Fig. 4

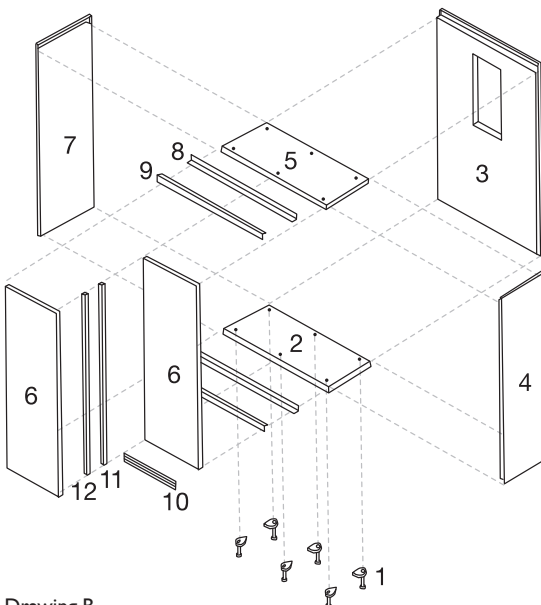


Fig. 5

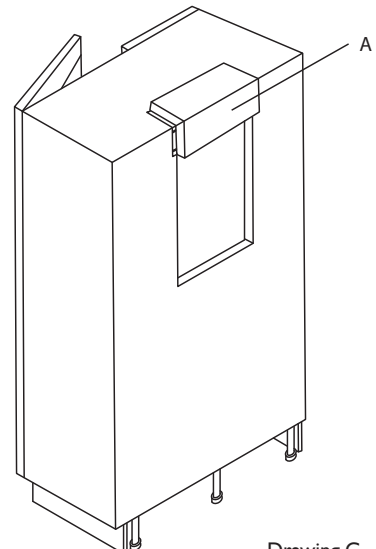


Fig. 6

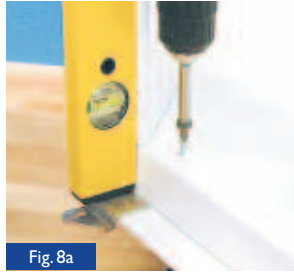
- 4 Then pull the base forwards again to gain access around the cabinet for the rest of the installation.
- 5 Begin with the back wall (3), which has a recess for the unit. Make sure that the overlapping groove at the bottom of the wall is fixed securely around the base. Continue with one of the side walls, 4 or 7. The overlapping groove must go around the back wall, and the stiffening on the wall engages in the groove on the base and the ceiling (**Figure 4**). Now push the ceiling (5) into place. The elements can be tapped into engagement with one another with the hand. Fix the ceiling and the base to the walls on the rear edge with 4 x 30 mm wood screws. The holes are pre-drilled. Use an awl to make holes in the innermost panel (**Figure 5**). The walls are fixed in the middle with a 4.2 x 16 mm self-drilling screw. Then fix the other side wall in the same way.
- 6 The unit gives off heat, which **MUST** be conducted away from the cabinet. The air channel (A) (**drawing C**) must facilitate this. It is also important for reducing the noise from the unit. Fix it as illustrated in the drawing with 4.2 x 16 mm self-drilling screws, two on each side, from the rear side of the cabinet. The supply of cool air from the ventilation grille in the plinth will now pass through the unit and will be conveyed upwards and out into the room from the top of the cabinet.



Drawing B



Drawing C



- 7 Now lift up the cabinet carefully onto the wall. Make sure that the legs do not bend. An air gap of 45 mm will now be present behind the rear wall. Check that the air duct/sound attenuator A is standing firmly above the recess for the unit. The cabinet must be fixed with brackets on the rear edge (**Figure 6**). If not, the cabinet can tilt forwards due to the weight of the doors. Unscrew the aluminium bracket on the base.
- 8 Now put the central upright (11) over the lowest bracket and slide it into place from the rear over the bracket on the ceiling, as shown in Figure 7. Screw the central upright firmly in position with 4.2 x 16 mm self-drilling screws in the pre-drilled holes at the top and bottom. Now fix the fittings on the ceiling and the base over the aluminium angle brackets using 4.5 x 30 mm screws at the top and 4.2 x 16 mm at the bottom. The broadest fitting must be at the top. Make sure that these are flush with the frame at the sides because this is the edge with which the magnetic strip will make contact (**Figure 8a**). If not, the doors will not seal properly. The supplied shim may be used, if necessary, to ensure that this is the case (**Figure 10**). The fitting (**Figure 12**) is fixed over the central upright. Present inside the fitting is a heating cable, which can be used if condensation forms on the central upright, e.g. in hot periods during the summer. Press in this fitting so that it is flush with the fittings at the top and bottom (**Figure 8b**).
- 9 Install the doors by placing the white washer on the bottom hinge, then insert the pin from above and secure it with the nut below (**Figure 9**). Secure the top hinge with 5 x 50 mm screws (**Figure 11**). Check that the frame is level all the way round, as otherwise the magnet will not work on the rubber strip. Adjust the doors with the help of the grooves in the bottom hinge so that the magnetic strip does not rotate against the frame or catch on the side panels. Adjustment can be made both to the side and at the front and the back. Go into the cabinet, close the doors and check that no light finds its way in.





Fig. 12

**10** Fix the handle to the wooden door. The cabinet door is installed with a 5 x 60 mm through screw. Pass the white plastic washer onto the screw first. Drill a 5 mm hole 10 cm from the bottom and top and 35 mm from the sides. This is because the screws must not touch the frame (**Figure 12**). Press the white decorative caps over the screws (**Figure 13**). The sides are fixed in the same way, although 5 x 65 mm screws are used here.



Fig. 13

**11** In order to ensure that the cabinet is completely airtight, a joint of sealing compound is applied to all corners and terminations. Use masking tape to either side of the joint. The application of a little washing-up liquid with a finger will make the joint smooth and neat.

**12** Screw the wall rails for interior fittings securely in place with 4 x 30 mm screws in the pre-drilled holes on the back wall. The screw holes on the rails must face in towards the middle of the wall (**Figure 14**). Rails for the shelves in the doors are installed at the factory.



Fig. 14

**13** Read the INSTALLATION AND OPERATING INSTRUCTIONS FOR THE UNIT and place it in position. Take particular note of the importance of cleaning the filter every three months.

**14** The switch for the lamps is installed in two pre-drilled holes in the ceiling, using 4 x 15 mm screws. Remove the lamp cover and fix the lamp with 3 x 40 mm screws. Cut the self-adhesive cable trunking and secure the wiring as shown in the drawing (**Figure 15**). The wiring is secured to the mounting on the unit.

**15** Now secure the white cover with 4 x 40 mm wood screws, two above and two below. The filter is now accessible in the gap on the front (**Figure 16**). It is VERY IMPORTANT that this is cleaned at least every three months.



Fig. 15

**16** The ventilation grille must be installed in the front plinth (**Figure 17**). If the interior fitting goes all the way to the ceiling, two additional ventilation grilles must be installed above the cabinet (**Figure 18**). This is important to ensure an adequate flow of air to the unit.

**17** The shelves are positioned at the desired height. If an accessory pack is supplied, the shelf with sliding rails for fruit and vegetable boxes must be positioned at the bottom of the cabinet, as shown in Figure 19. You have now utilized all the space, including under the shelves.



Fig. 16



Fig. 17

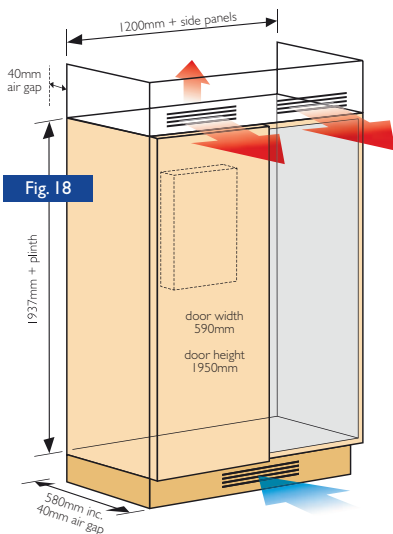


Fig. 18

## Noise level

When the cooling compressor is running, the noise level is approximately 36 dB(A) measured 1 m from the door. The noise level can increase during periods of extreme heat. The compressor will start and stop depending on how often the door is opened. This is to ensure that the temperature remains within  $\pm 2$  °C of the temperature to which the thermostat is set. The noise level is approximately 25 dB(A) in the "stand-by position". If the unit is placed against an internal wall, this should be insulated in order to prevent the noise from being amplified in the cavity inside the wall.

## Checking installation

If hot air finds its way into the cabinet, the compressor will run excessively. It is important, therefore, for the cabinet to be airtight so that hot air does not find its way in either around the door or in the corners. Go into the cabinet, close the door and check that the magnetic strip provides an effective seal and that the lights go out. Make sure that all corners and joints are joined with sealing compound. Ensure that nothing obstructs the air duct at the top of the cabinet and that the flow of air through the unit is adequate. Minimum air gap at the bottom: 220cm<sup>2</sup>. If the kitchen interior fittings go all the way to the ceiling, two ventilation grilles or an air grille made of wood, equivalent to a minimum air gap of 440cm<sup>2</sup>, must be installed in addition. The grilles must be installed at the top against the ceiling to prevent a hot air pocket from forming inside.

Fig. 19



The Polar Two Door has undergone comprehensive testing under extreme conditions in a climate chamber at a temperature of 35 degrees and with 75% atmospheric humidity. If the cabinet is installed correctly so that it is airtight and so that the air circulation is adequate, the only maintenance required will be to clean the dust filter every three months. You will then save time and effort by having all your food ingredients to hand in the kitchen – precisely where you need it. Elegantly concealed behind an attractive cabinet door, you will have an all-in-one refrigerator, cold-storage room and pantry.



Unit 4 Brunel Close, Harworth, Doncaster, DN11 8QA  
Tel: 01302 759308 or Local Rate on 0845 061 6622  
Fax: 01302 751233 E-mail: [info@cornerfridge.com](mailto:info@cornerfridge.com)  
[www.cornerfridge.com](http://www.cornerfridge.com)