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Tools required:

- 1 x Large Cross Head Screwdriver
- 1 x Pop Riveter
- 1 x Ø3.5mm Drill Bit
- 1 x Battery Operated Drill

Plenum Installation

1. Install the Plenum Box prior to fitting the ceiling grid by suspending it from its mounting holes with Drop Rods (supplied by others). When the grid has been fitted, centralise the Plenum in both directions within the opening where the Diffuser is to be fitted (see fig 1).

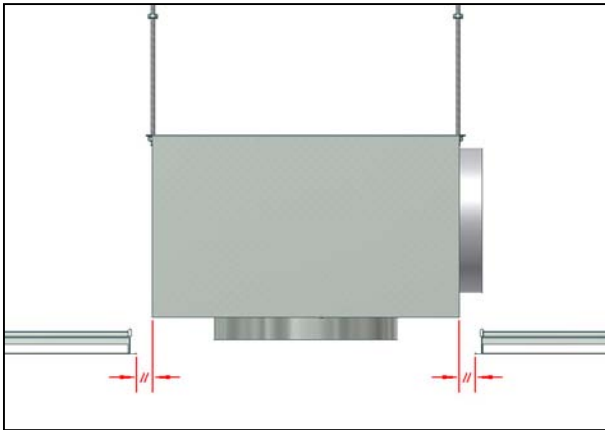


Figure 1: Centralise Plenum

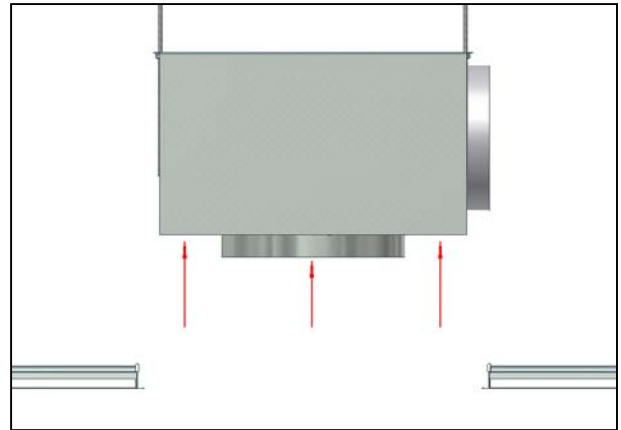


Figure 2: Raise Plenum Box

2. Once you are satisfied with its alignment within the ceiling grid, raise the Plenum Box approximately 200mm (or as required) above the grid to allow sufficient space to install the Diffuser (See figure 2).
3. Locate one end of the Diffuser into the ceiling opening, and in a sliding motion move it to the far end of the opening (figure 3).

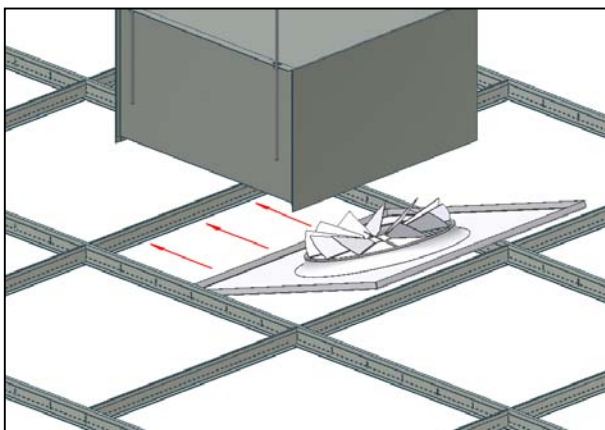


Figure 3: Slide Diffuser into opening

4. Once the Diffuser is positioned, lower it into the opening, ensuring that it is firmly seated against the tee bars of the ceiling grid. (See figure 4).

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5. Lower the Plenum Box over the rear stack of the Diffuser (Figure 5). Take care to ensure that the stack is positively located within the Plenum Collar (figure 5a). Do not tighten the Drop Rod lock nuts at this time, as some adjustment may be required.

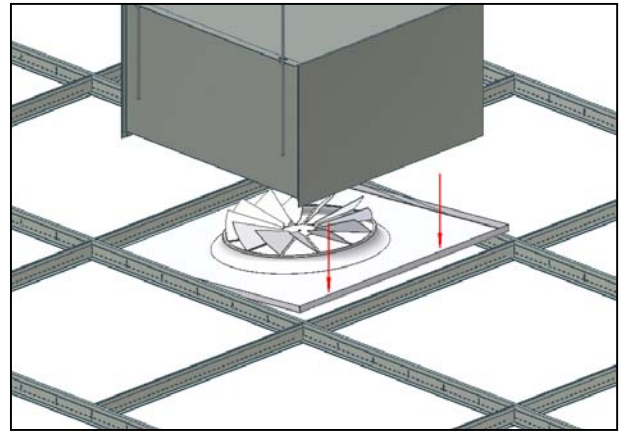


Figure 4: Lower Diffuser into position

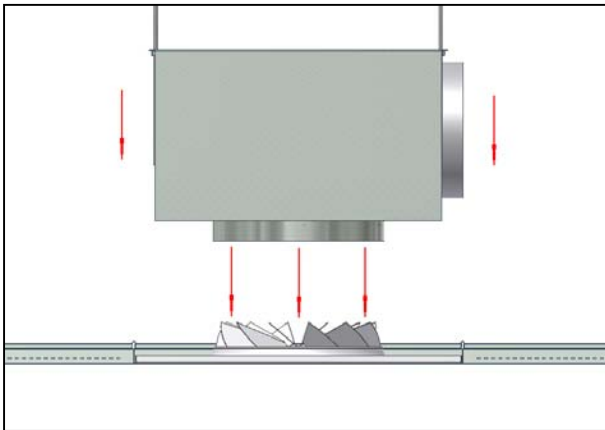


Figure 5: Lower Plenum...

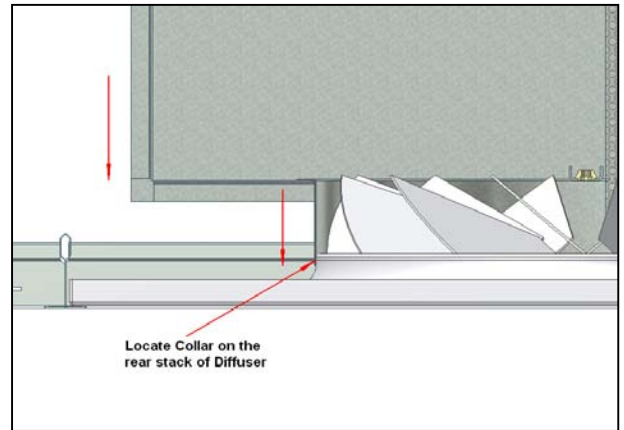


Figure 5a: ...onto rear stack of Diffuser

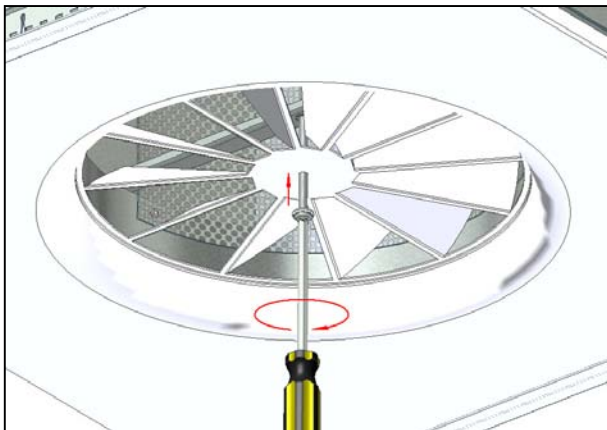


Figure 6: Screw Diffuser to Plenum

6. Once you are happy with the Plenum position, take the fixing screw from the fitting kit supplied. Remove the plastic cap from the screw and secure the Diffuser to the Plenum as shown in figure 6. Take care not to over tighten the screw as this could distort to the Diffuser face.

7. This operation may cause the Diffuser to be lifted off the ceiling grid creating a gapping effect (figure 7). If this occurs, adjust the height of the Plenum and Diffuser by raising or lowering the assembly using the lock nuts on the Plenum Drop Rods until the desired effect is acquired.

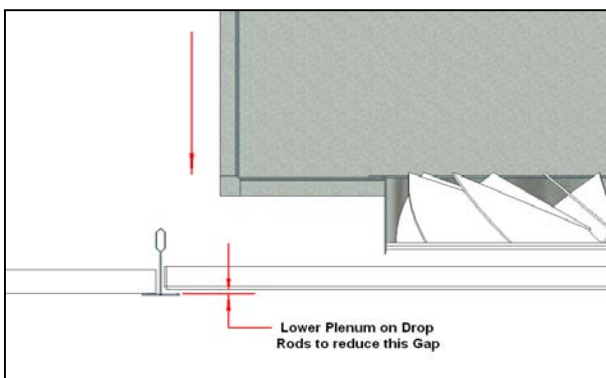


Figure 7: Lower Plenum to close gap

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8. Finally, Clip the plastic cap back onto the head of the fixing screw (figure 8).

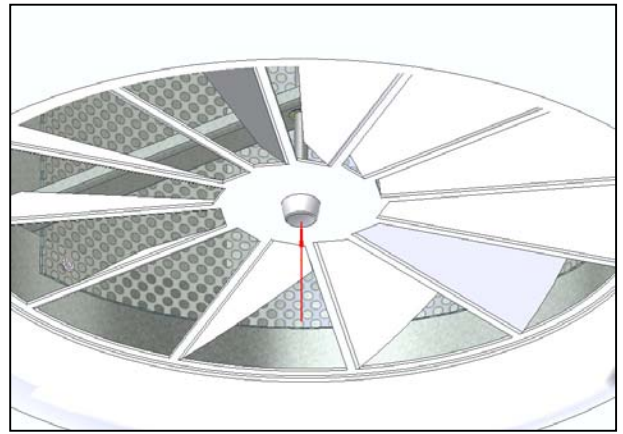


Figure 8: Refit cap on fixing screw

Duct Mount Installation

An alternative method of installing this range of Diffusers is the use of a steel Duct Mount Collar. This allows both rigid and flexible ductwork to be connected directly to the rear of the Diffuser. These Duct Mounts are supplied to order, and the installation instructions are as follows:

1. Take the Diffuser and place it face down on the table, taking care to lay it on something to protect the paint finish.
2. Orientate the Duct Collar so that its mounting bar 'U' channel is open to the top, then place the Collar over the rear stack of the Diffuser. Take care to ensure that the stack is positively located within the Collar (figure 9).
3. Remove the plastic cap from the fixing screw supplied. Stand the Diffuser on edge whilst still holding the Duct Collar in place, then insert the fixing screw and secure the Diffuser to the Duct Collar as shown in figure 10. Take care not to over tighten the screw as this could distort to the Diffuser face.
4. Refit the plastic cap onto the head of the fixing screw.
5. Locate one end of the Diffuser into the ceiling opening, and in a sliding motion move it to the far end of the opening (figure 11).

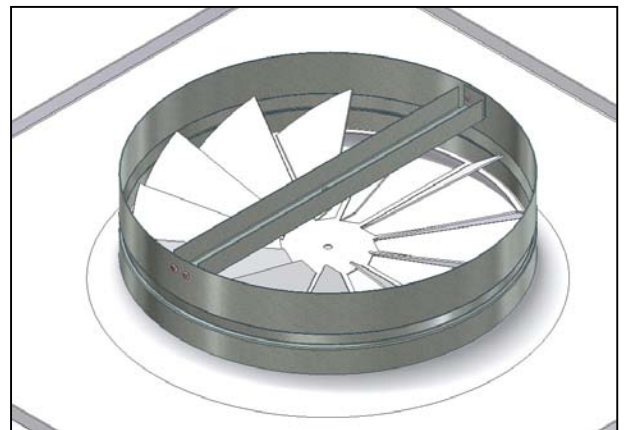


Figure 9: Position Duct Collar on Stack

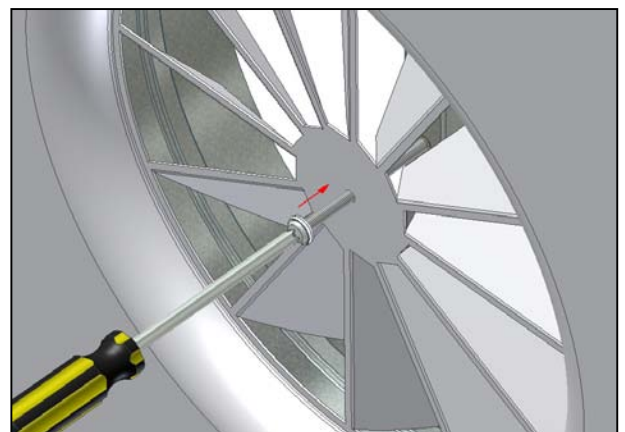


Figure 10: Screw Diffuser to Duct Collar

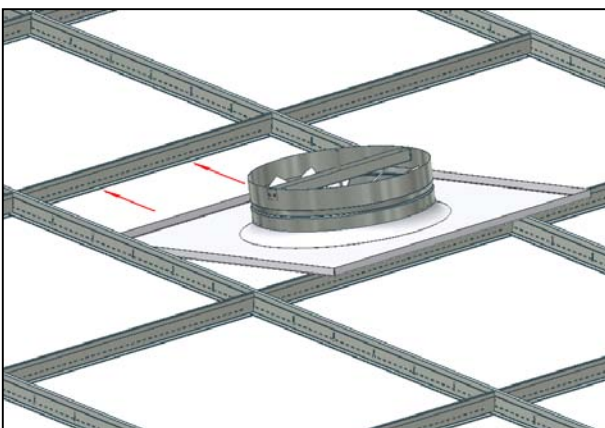


Figure 11: Slide into Ceiling Grid opening

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6. Once the Diffuser is positioned, lower it into the opening, ensuring that it is firmly seated against the tee bars of the ceiling grid. (See figure 12).

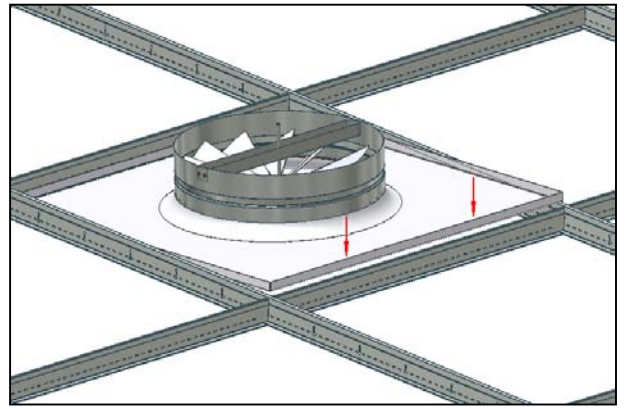


Figure 12: Lower Diffuser into place

7. Rigid Ductwork

- a. Lower the Ductwork on the Drop Rods to allow it to slide over the exterior of the Duct Collar. Continue this until it reaches the swage line as shown in figure 13. Anchor it in position using the lock nuts on the supporting Drop Rods.

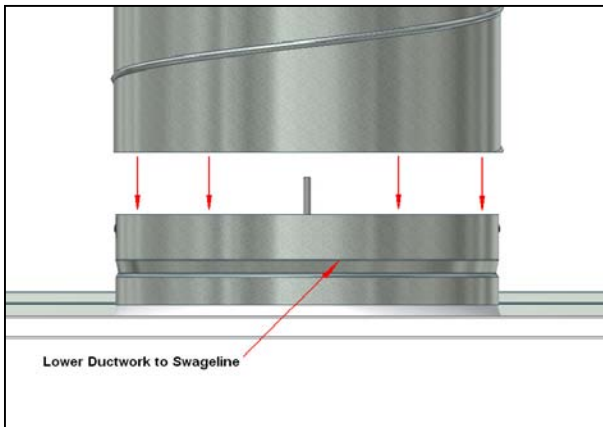


Figure 13: lower the Ductwork

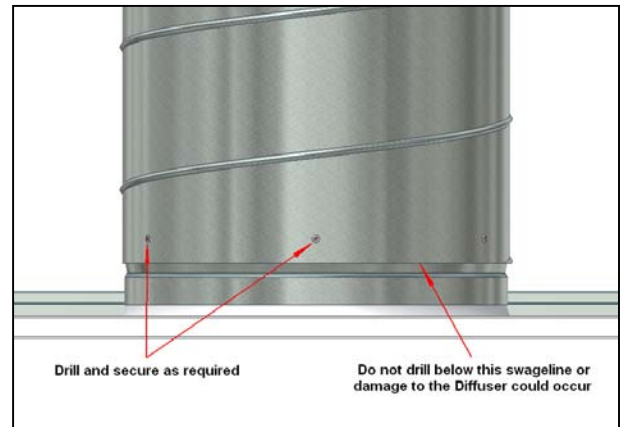


Figure 14: Secure Ductwork in place

- b. Secure the ductwork by drilling through it and the Duct Collar above the swage line, then riveting or screwing them in place (figure 14). Do not under any circumstances fix the ductwork below the swage line as damage to the Diffuser may occur.

8. Flexible Ductwork

- a. Place the open end of the flexible ductwork over the outside of the Duct Collar and secure in place using a worm drive hose clip.

Cleaning and Maintenance

To clean, use warm soapy water and a damp cloth. Wipe down the Blades and Face of the Diffuser and leave to dry.