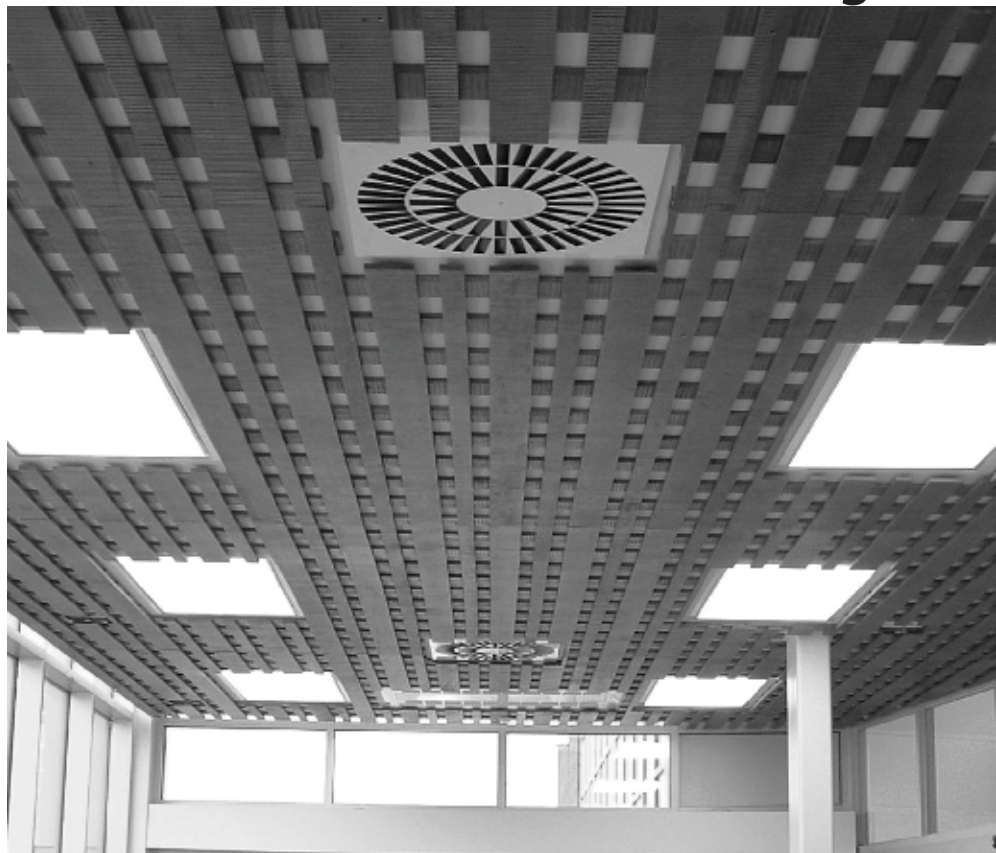




Swirl diffuser DAL 359



Maintenance and installation guide



KEEP THIS GUIDE

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CONFIGURATION

The DAL 359 is available with a round or square frontal plate, with air guiding blades.

The diffuser is mounted on a plenum. The attachment of the front plate is achieved with a central hidden screw (fixed on a cross).

For the nominal dimension 800, four (4) supplementary screws in the corners of the frontal plate ensure proper attachment.

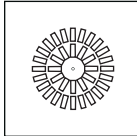
The diffuser will be powder coated with a polyester TGIC-free paint, providing a smooth, easy-to-clean, chip and fade resistant finish. The colours are available from the RAL colour chart.



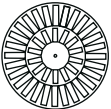
DAL 359-R-400



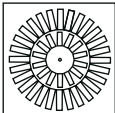
DAL 359-Q-400/400



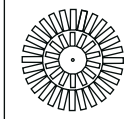
DAL 359-Q-400/603



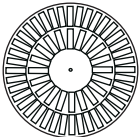
DAL 359-R-500



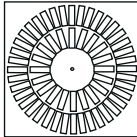
DAL 359-Q-500/502



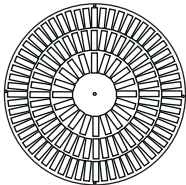
DAL 359-Q-500/603



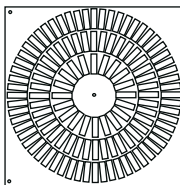
DAL 359-R-600



DAL 359-Q-600/603

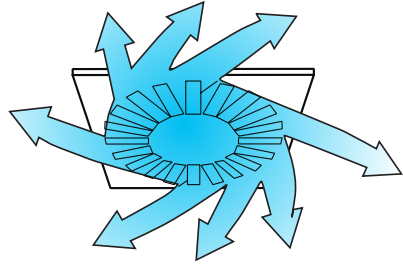


DAL 359-R-800



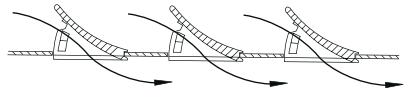
DAL 359-Q-800/800

MODE OF OPERATION



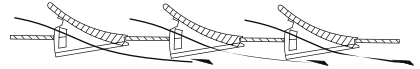
helical discharge

Position 1



The blades produce, at the diffuser's frontal plate, a change in the air flow (from vertical to horizontal) with acoustic and aerodynamic qualities.

Position 2



On position two, the blades can be lowered, reducing the exiting airflow by 50%. If the airflow doesn't change, the air jet penetration can be increased.

INSTALLATION IN A GYPSUM CEILING

DAL 359 Q

A) Opening in the gypsum

Choose one of the three (3) installation options shown on the right.

Option 1 and 2

- Measure the diffuser's dimensions.
- **ADD** 13 mm (1/2") to the width and 13 mm (1/2") to the length.
- Cut a square in the gypsum corresponding to these measures (dimension of diffuser + 13 mm).
- Around this hole, insert a plaster frame and fix it.

Option 3

- Measure the diffuser's dimensions.
- **REMOVE** 13 mm (1/2").
- Cut a square in the gypsum corresponding to these measures (dimension of diffuser - 13 mm).
- Around this hole, insert a plaster frame and fix it.

B) Install the plenum box

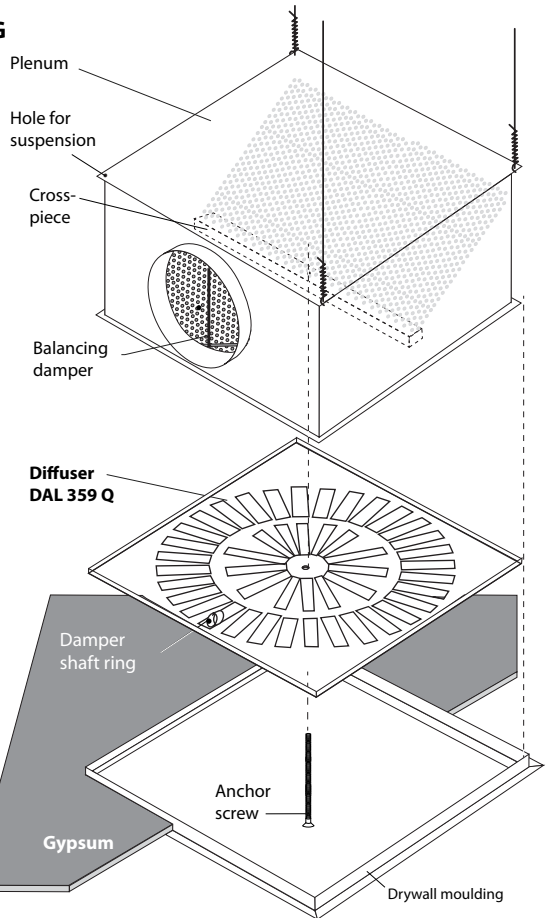
The plenum will be suspended with metal wire through the 4 predrilled suspension holes.

As shown in the drawing on the right, install the plenum by adjusting its height. According to option 1 and 2, the base of the plenum should be 3 mm (1/8") into the hole or, with option 3, the base of the plenum will press outside the gypsum's hole.

C) Install the diffuser

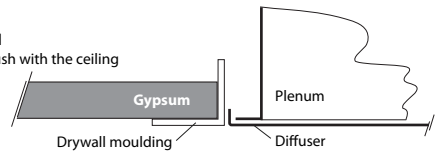
Fix the diffuser using the anchor screw provided for this purpose, through the center of the cross-piece in the plenum.

NOTE : You will find the 140 mm anchor screw clipped on the back of the diffuser.



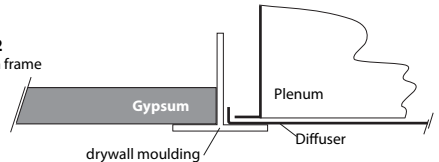
Option 1

diffuser flush with the ceiling



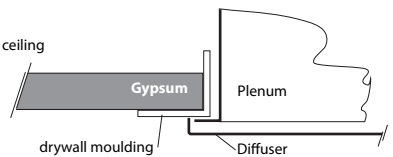
Option 2

diffuser on frame



Option 3

diffuser under the ceiling



Note: For the nominal denomination 800, 4 additional screws in corners of the diffuser's front plate ensure its fixing.

INSTALLATION IN A GYPSUM CEILING

DAL 359 R

A) Opening in the gypsum

Choose one of the two (2) installation options shown on the right.

Option 1

- Measure the diffuser's diameter ($\varnothing D$).
- **REMOVE** 13 mm (1/2").
- Cut a circle in the gypsum equivalent to this new measure ($\varnothing D + 13$ mm (1/2")).
- Around this hole, place the gypsum guide and fix it.

Option 2

- Measure the diffuser's diameter ($\varnothing D$).
- **ADD** 13 mm (1/2").
- Cut a circle in the gypsum equivalent to this new measure ($\varnothing D - 13$ mm (1/2"))
- Around this hole, place the drywall moulding and fix it.

B) Install the plenum

The plenum shall be hung with metal wire through the paraseismic hanging plates (3).

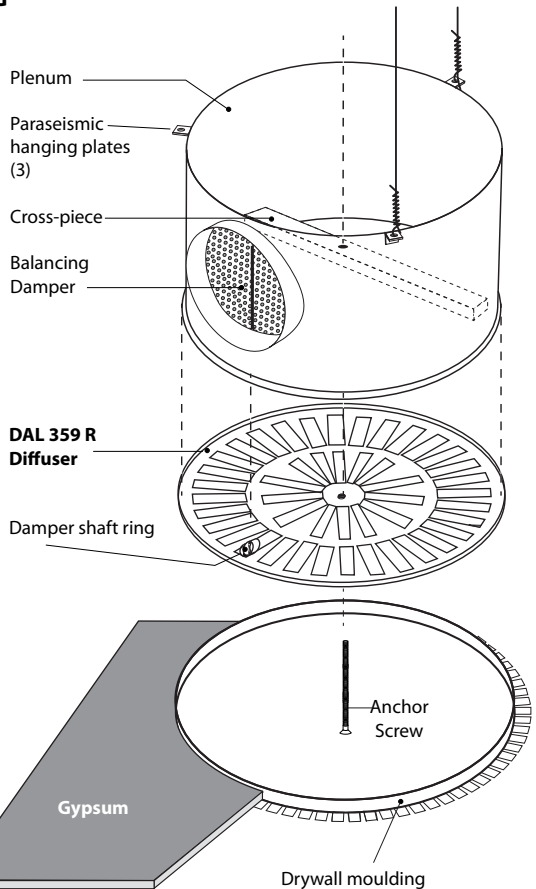
As shown in the drawing on the right, install the plenum and adjust its height.

According to **option 1**, the lip of the plenum will be installed 6 mm under the gypsum. **Or**, according to **option 2**, the base of the plenum must be 3 mm (1/8") into the hole.

C) Install the diffuser

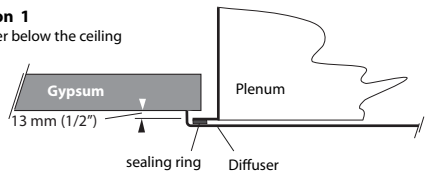
Install the diffuser, making sure that the ring is perfectly aligned on the damper shaft ring.

Fix the diffuser using the 140 mm anchor screw provided for this purpose, through the center of the cross-piece in the plenum.



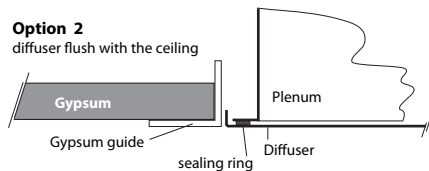
Option 1

diffuser below the ceiling



Option 2

diffuser flush with the ceiling



Note: For the nominal denomination 800, 4 additional screws in corners of the diffuser's front plate ensure its fixing.

INSTALLATION IN SUSPENSION CEILING

DAL 359 Q

A) Grid mouldings

Make sure that the grid mouldings of the suspended ceiling match the diffuser's dimensions.

Also, make sure that the ceiling mouldings are firmly anchored.

B) Install the diffuser to the plenum box

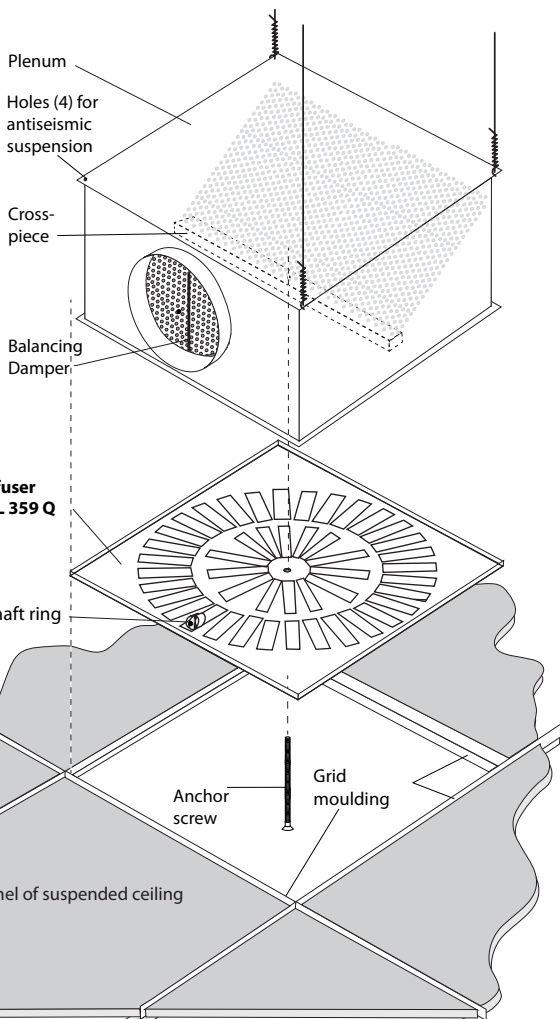
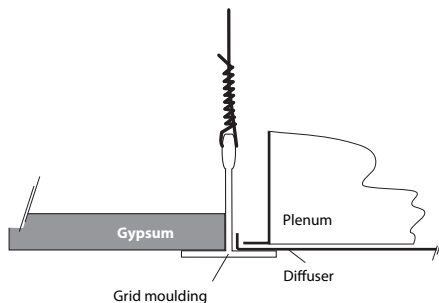
Place the diffuser in the plenum and fix it using the screw anchors provided for this purpose, through the center of the cross-piece in the plenum.

C) Install the plenum and the diffuser

Slowly move the diffuser and plenum box in the ceiling space.

Important

Secure the support by suspending the plenum with metal wire, through the 4 predrilled antiseismic suspension holes.



Note: For the nominal denomination 800, 4 additional screws in corners of the diffuser's front plate ensure its fixing.

MAINTENANCE

The NAD Klima DAL 359 diffuser requires no special maintenance other than periodic cleaning.

We recommend cleaning the diffuser with a multi-filament brush or microfiber duster that you will pass softly on the diffuser. The thermo-lacquered finish allows for easy cleaning of the diffuser as dust does not stick to it.



When cleaning, gently move the brush or duster in the same direction of the rollers so as not to change their adjustment.

Quality
NAD Klima®

NAD Klima diffusers are the result of a manufacturing process in which our experts successfully meet your requirements and particular challenges.

Our range of equipment comprises the latest technological innovations. Our passion for work well done and digital precision ensure that the resulting product will guarantee the highest standards.

Manufactured in Sherbrooke, Quebec, (Canada) and distributed all across North America, our products raise the bar in terms of standards of quality, efficiency and energy savings.

A leader in air diffusers for LEED projects, NAD Klima is always striving to provide better comfort to consumers.

All NAD Klima products are the pride of an inventive, innovative and devoted team.

Our goal is not only to supply diffusers, but to create outstanding results.

We are NAD Klima.

