

Flexible diffuser

FDD



Maintenance and installation Guide



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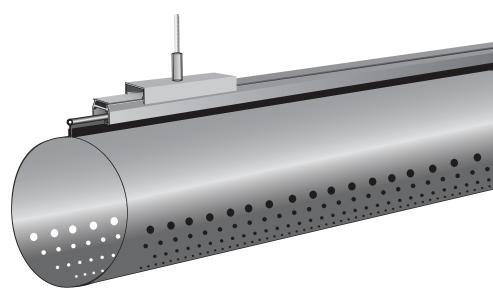
Configuration

The FDD diffuser is a flexible circular diffuser with perforations.

Each section can reach up to 15 m (50 ft) in length. The FDD diffuser is available in any diameter from 200 mm (8 in) to 1473 mm (58 in).

A PVC extrusion is integrated into the diffuser to allow its suspension.

At each end, a metal collar or a zipper is used to join sections of the FDD diffuser together.



Single suspension FDD

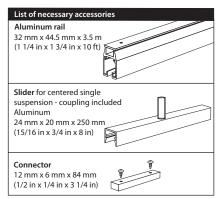
Rail installation

The rail is suspended by a threaded rod (not supplied) of \emptyset 9 mm (3/8 in).

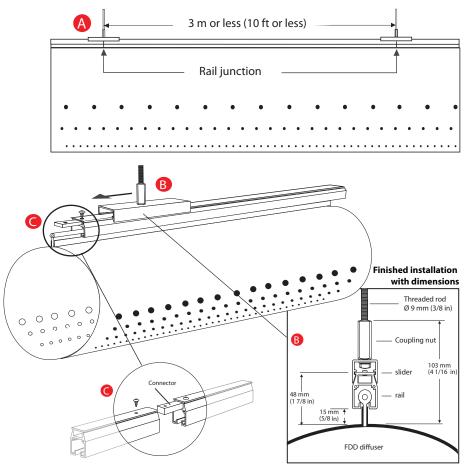
Install threaded rod and a slider at the duct's begining.

Threaded rods and subsequent sliders can be installed at intervals ranging from 1.5m to 2.5 m (5 to 8 ft). (B)

To ensure a strong union to each rail junction, there must be a connecting screw on each of the two rails.



To install the diffuser on the rail, see page 5 "Installing the diffuser."



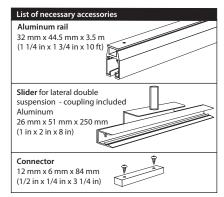
Double suspension

Rail installation

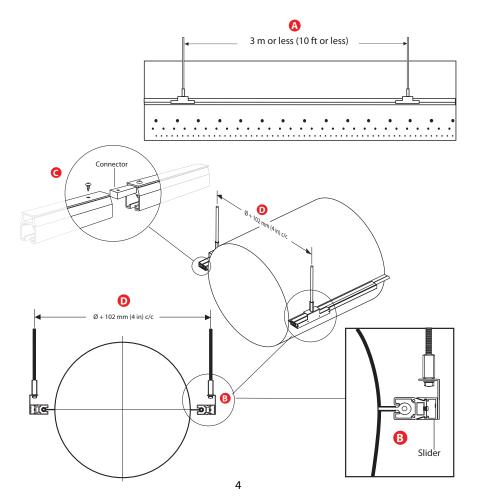
Each rail is hanged by a threaded rod (not supplied) of \emptyset 9 mm (3/8 in) every 3 m (10 ft), (A) at the junction of the rail, recovered by the slider. (B)

To ensure a solid connection to each rail junctions, there must be a connector screwed to each of the two rails.

The two rods supporting the parallel rails have a mutual spacing of: Ø diffuser + 102 mm (4 in) center / center. **D**



To install the diffuser on the rail, see page 5 "**Installing the diffuser**".



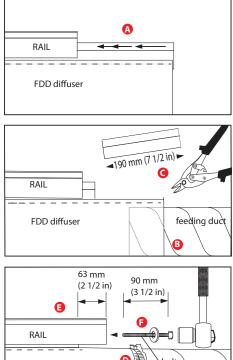
Diffuser installation

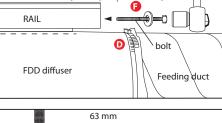
- Once the rail is properly installed, you must slide the FDD diffuser in the aluminum rail.
- Insert about 76 to 102 mm (3 to 4 in) of the FDD diffuser in the feeding duct.
- C Using a pair of metal shears, remove 190 mm (7.5 in) of PVC guide.
- Once the PVC guide is cut, install the hose clamp to join solidly the diffuser to the feeding duct.
- Measure, from the end of the rail, 63 mm (2.5 in) of PVC guide that will slide inside the rail.
- Insert the 90 mm (3.5 in) bolt and flat washer (serving for tensioner) in the end of the PVC guide. Screw the clamping bolt up to the rail without putting tension.
- G At the other end, cut the last rail section of 63 mm (2.5 in) longer than the diffuser.
- Insert the second tightening bolt to make a soft and smooth tube. Screw a first clamping bolt at the entrance of the diffuser, as needed.

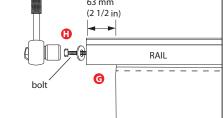
Note: Normally, one inch of tension is sufficient for a length of 15 m (50 ft). Prevent overtension to avoid sections being re-opened one after another.

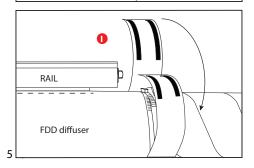
Place the 102 mm (4 in) belt over the collars to hide them.

They get attached themselves using velcro.









Join two section of diffuser

When the diffuser is in two sections, or for the installation of the end cap, the two sections or the end cap are joined together by a zipper.

A fabric flap covers the zipper.

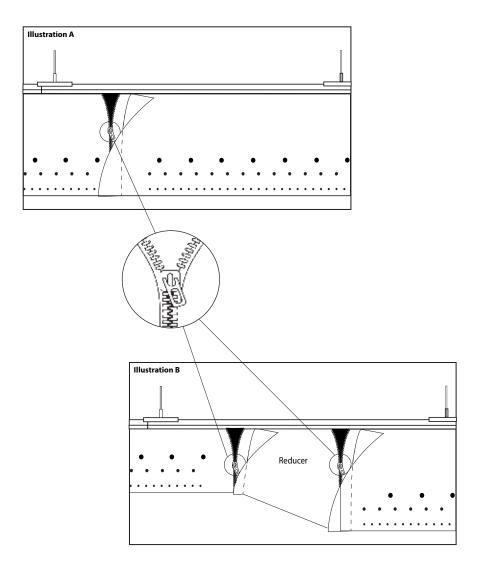
Reducer installation

When the diffuser requires a reducer, the diffuser and reducer are joinded together by a zipper.

A fabric flap covers the zipper.

See illustration B

See illustration A

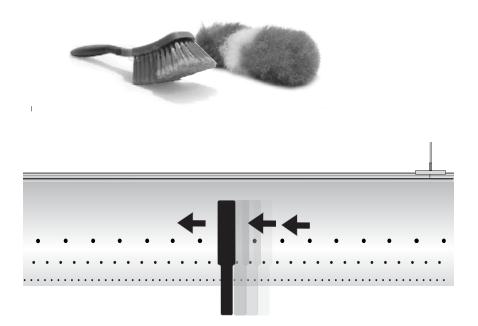


MAINTENANCE

The NAD Klima FDD flexible 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 low dust adhesion allows for easy cleaning of the diffuser .





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.

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

All products of NAD Klima 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.





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