SUPPLY AIR DIFFUSER [ACTIVE AND REACTIVE]

MAINTENANCE

Lindinvent's supply air diffusers are maintenance-free. This applies to both active and reactive. The unit can be wiped clean on the outside with a slightly damp cloth

CLEANING INTERVAL AND FUNCTION CONTROL

No parts of Lindinvent's supply air diffusers with connections require periodic maintenance or calibration.

GUIDELINES FOR CONTROL MEASUREMENT

Airflow measurement in ducts should be carried out in accordance with European standard SS-EN 16211, which specifies methods for measuring air velocity and calculating air flow from point measurements over the cross-sectional area of the duct. Correct measurement requires a sufficiently long straight section and a stable velocity profile.

Lindinvent recommends that airflow measurement be carried out using a Prandtl tube or a hot-wire anemometer. Since the Prandtl tube measures the dynamic pressure in the duct, the velocity should at least exceed 3 m/s (corresponding to approximately 5 Pa) to provide a sufficiently high measuring pressure. Therefore, always use a hot-wire anemometer at lower air velocities.

Lindinvent advises against using a direct-flow meter with a hood, such as Accubalance, when measuring supply air diffusers. This method alters the diffuser's characteristics and yields meaningless measurement values. Lindinvent instead recommends measuring the airflow before and after the supply air diffuser. Measurement is carried out using a Prandtl tube or a hot-wire anemometer, as specified above.

When measuring extract air devices (valves and grilles), however, experience has shown that a direct-flow meter with a nozzle works well.

OPERATIONAL OPTIMIZATION AT THE SYSTEM LEVEL

Climate control in buildings can be monitored and operationally optimised using the web tool LINDINSPECT. Equipment and operating conditions can be visualised and analysed via the tool. Patterns in utilisation and trends in energy use can be followed to develop proposals for energy and functional improvement measures. Deviations and measures can be planned, ordered and monitored until the desired functionality is achieved.

The inspection is recommended as a preventive measure or as a basis for decisions concerning technical maintenance work.

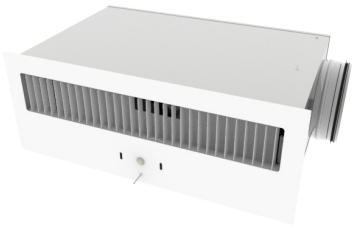
SAMPLES OF DIFFUSERS

See the website and Indoor Climate for available diffusers.

Diffuser ICI-F.

Diffuser ISQ-160C.

Diffuser ISQ-FM.



Diffuser ISQ-V2.

CONTACT

In the event of error reporting or other questions about climate control in the property, the responsible technician should be contacted.