

Air Diffusers

Highest product quality for best air quality

Have you never seen our air diffusers?

It is not very strange if you don't notice Swegon's air diffusers. This is a sure sign that we have done a good job. Quiet, free of draught and well-designed to blend in among other fittings in their surroundings, our air diffusers give rooms a fresh, energizing indoor climate, without our senses having to perceive this; without disturbing us in our daily life.

Design is function

The obvious difference between our different air diffusers is their appearance. In order to blend in into the décor of the room and uplift its overall impression, they need to look a certain way; but the design of these products is also decisive for their function. When the surroundings undergo a change, air diffusion settings also have to be changed. Swegon's uniquely designed air diffusers make it simpler than ever to change their diffusion pattern.

Quiet

Our ears are constantly exposed to background noise found everywhere. Headaches and tiredness are only two examples of how we are affected by noise. These are hardly factors that contribute to an effective working environment. Ventilation is far too often considered synonymous with irritating background noise. Swegon's air diffusers are thoroughly tested to make sure that they won't convey noise to rooms. Their effective sound attenuating characteristics and flexible location options enable us to minimize the volume of flow-generated sound in all types of rooms.

No draught

It is neither comfortable nor healthy to spend time, especially longer periods, in environments where there is a cold draught. Swegon has air diffusers for every airflow and air velocity. They are all designed to supply air free of draught. This is by far one of the most important functions of air diffusers for achieving an energizing indoor climate. Our air diffusers can also be modified to conform to your present needs.

High comfort

– Quiet and free of draught!

Can easily be modified

– Easily adjusted to suit the activity in the room

Pleasing design

– Fit in well in many different environments.

High flexibility

– Many installation and position options.



The air diffusers are available in several different versions for various environments and needs.



Swegon's air diffusers can be used in very demanding type of environments. All spaces in the Opera House in Oslo, Norway, have air diffusers from Swegon.

Highest product quality for best air quality

Manufacture

Swegon has factories for the manufacture of air distribution products and flow control products, air handling units, chillers and heatpumps, waterborne indoor climate systems, sound attenuation products and home ventilations products. Automated manufacturing processes contribute to increased productivity, high and uniform quality.

Development

Regardless of how good a product is, it can always be better. This is the goal we have to pursue, in order to continuously be able to supply high-quality products. Modern laboratories with state-of-the-art testing equipment guarantee that our R&D efforts really yield results.

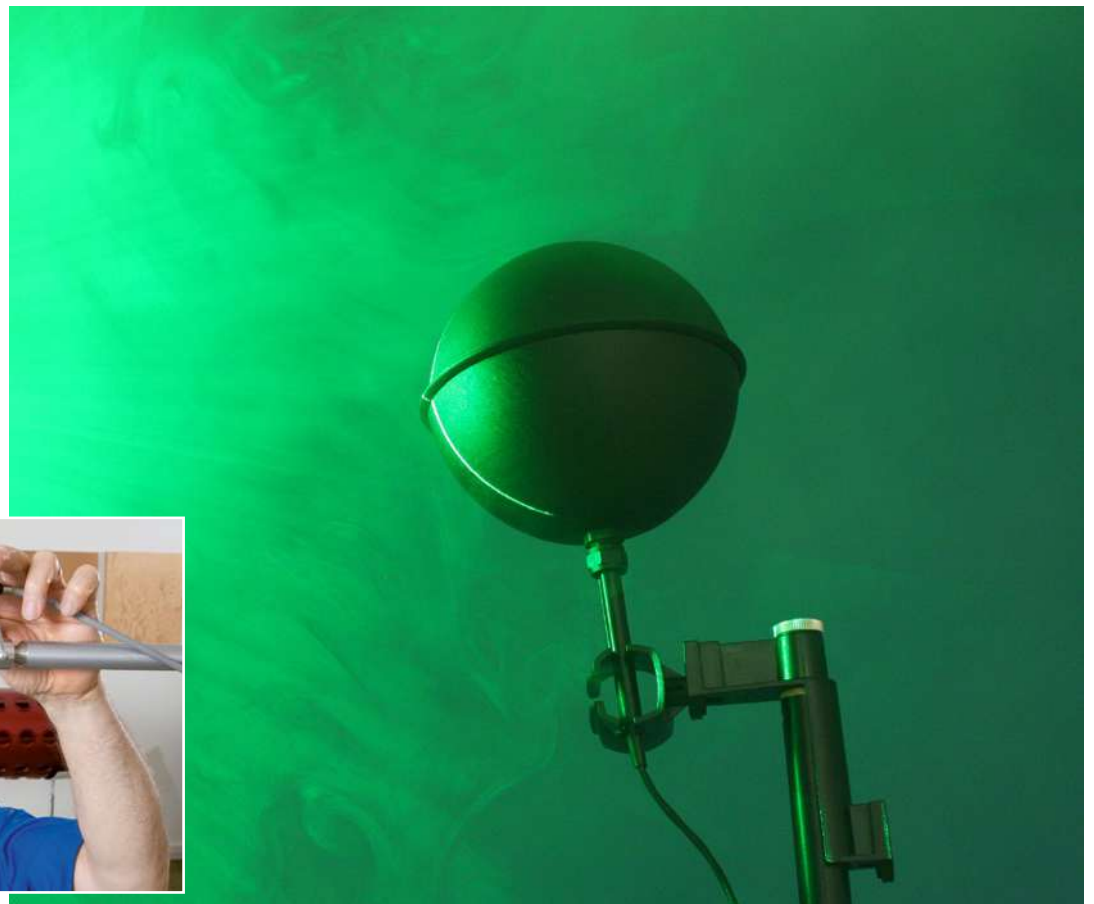
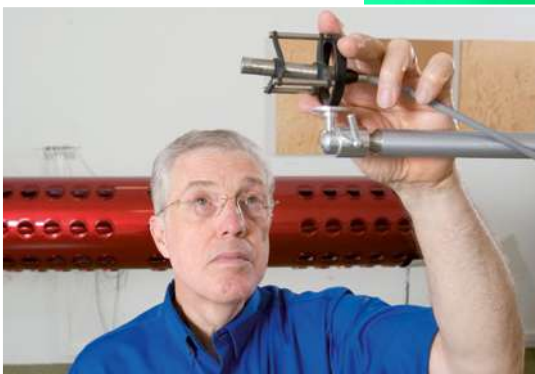
Quality and environmental Awareness

Since our aim is to provide fresh air indoors, we also understand the importance of having fresh air outdoors. Our entire organization is quality and environmentally certified. A product that does not measure up to the right quality is not good for the environment either. Our goal is to be the leading company in our trade in terms of environmentally compatible corporate operations and environmentally compatible products.



An automated production process in the factory for air diffusers.

*Modern laboratories
for testing air distribu-
tion and flow control
products.*



Disc diffusers

How would you like to have your air today?



Even cool air can be supplied into a room without draught when Swegon's disc diffusers are used. Fresh air is effectively mixed into the warm air in the room, thus providing more comfortable air exchange. Swegon's unique, aerodynamically designed discs always make it possible to set the diffusion pattern so that no one will have to feel a cold draught in the room. The diffusion pattern is very simple to alter any time without affecting the sound level, airflow or pressure!

Swegon's disc diffusers enable you to adapt the supply of air to rooms to suit the activities for which they are used, without expensive re-commissioning or new purchases of products.



Swegon's disc diffusers have fully adjustable diffusion pattern that won't affect the pressure or increase the level of flow-generated sound. (Diffuser with commissioning box shown)

Benefits

100% flexible diffusion pattern

The discs of the air diffuser can be set to provide the diffusion pattern desired. Even completely vertical air discharge is possible for effective heating.

– Greater flexibility and more effective heating!

High induction rate

In a wide flow range, substantially under-tempered air can be mixed into the room air without draught.

– Better efficiency, cooling capacity and comfort!

Wide range of products

Many variants and many customising possibilities.

– This means that you can always find an air diffuser that fits both aesthetically and functionally.

Brief facts

Size

17 different models in various sizes.

Airflow

Up to 700 l/s (5500 m³/h).

Other

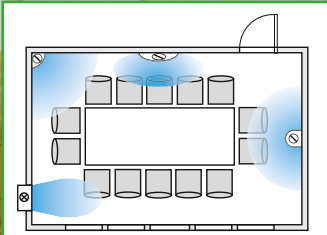
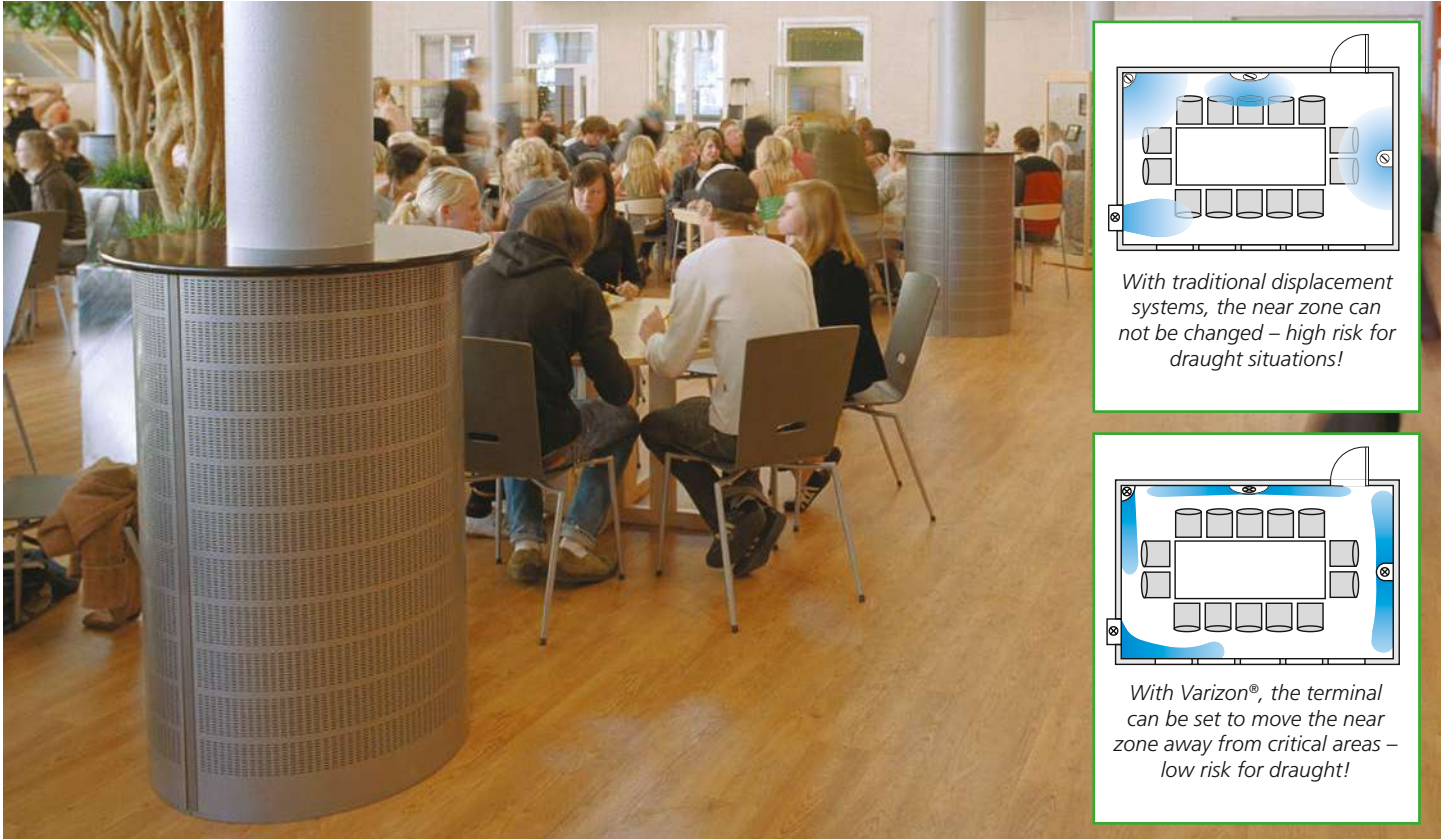
Recommended disc settings are specified in each product leaflet.

They are available in optional colours.

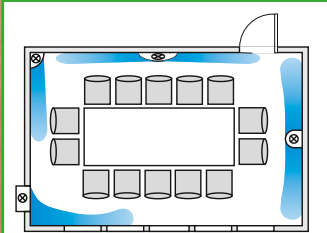
For complete specifications, visit: www.swegon.com.

Displacement terminals

Best comfort at close range



With traditional displacement systems, the near zone can not be changed – high risk for draught situations!



With Varizon®, the terminal can be set to move the near zone away from critical areas – low risk for draught!

Swegon's displacement terminals are made to effectively discharge air at low velocity. To ensure good comfort in rooms, most of the air terminal devices are equipped with Swegon's flexible Varizon® air distribution system, which makes it possible to alter the diffusion pattern. In rooms with high ceilings, substantial energy savings are possible by installing Swegon's displacement terminals with Varizon®.

Swegon offers displacement terminals in many different designs for a wide range of airflows.



Maximal flexibility with discs in Swegon's Varizon® system.

Benefits

Adjustable diffusion pattern

Varizon®, diffusion system makes adjustment of diffusion image possible.

- Increased comfort. You can be in the vicinity of the air diffuser and not experience draughts.

Effective at low air velocity

Effective air exchange despite low discharge velocity, means lower demands on air handling unit capacity.

- Good ventilation efficiency with maintained good comfort.
- Lower installation costs with smaller air handling units.

Brief facts

Sizes

14 different models.

Airflow

Up to 3000 l/s (11000 m³/h).

Other

Available in optional colours. Versions suitable both for comfort and industrial ventilation.

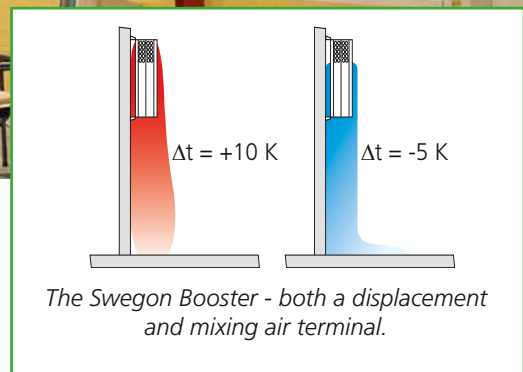
For complete specifications, visit: www.swegon.com.

The combination that alternates warm with cold



The Booster is a unique air diffuser because it can alternate displacement ventilation. The air diffuser is designed for use in buildings with high ceilings (e.g. sports centres, shopping centres, factories, etc.) and can be either installed suspended from the ceiling or secured to a wall. In this way, the Booster doesn't take up any floor space.

When the room needs to be heated, air is discharged downward through the discs in the upper section of the diffuser (mixing ventilation). When the room needs to be cooled, the lower section of the diffuser serves as a displacement air diffuser, supplying air below room temperature at low velocity to the room.



Thanks to the Varizon® air distribution system, the diffusion pattern of the chilled air can also be adjusted to prevent draughts.

Benefits

Can alternate between heating and cooling

When cooling is required the Booster serves as a displacement terminal, but when its Booster function is active, it presses hot air downward.

- Great flexibility. It automatically adjusts itself to meet room requirements.

Suspended installation

The Booster can be suspended from the ceiling or secured to a wall.

- More floor space for other uses.

Joint operation with the GOLD

Swegon's GOLD air handling unit can automatically control the settings of the air terminal devices.

- High and lasting indoor comfort!

Brief facts

Size

Six sizes: Ø200-Ø630 mm.

Airflow

Up to 1800 l/s (6500 m³/h).

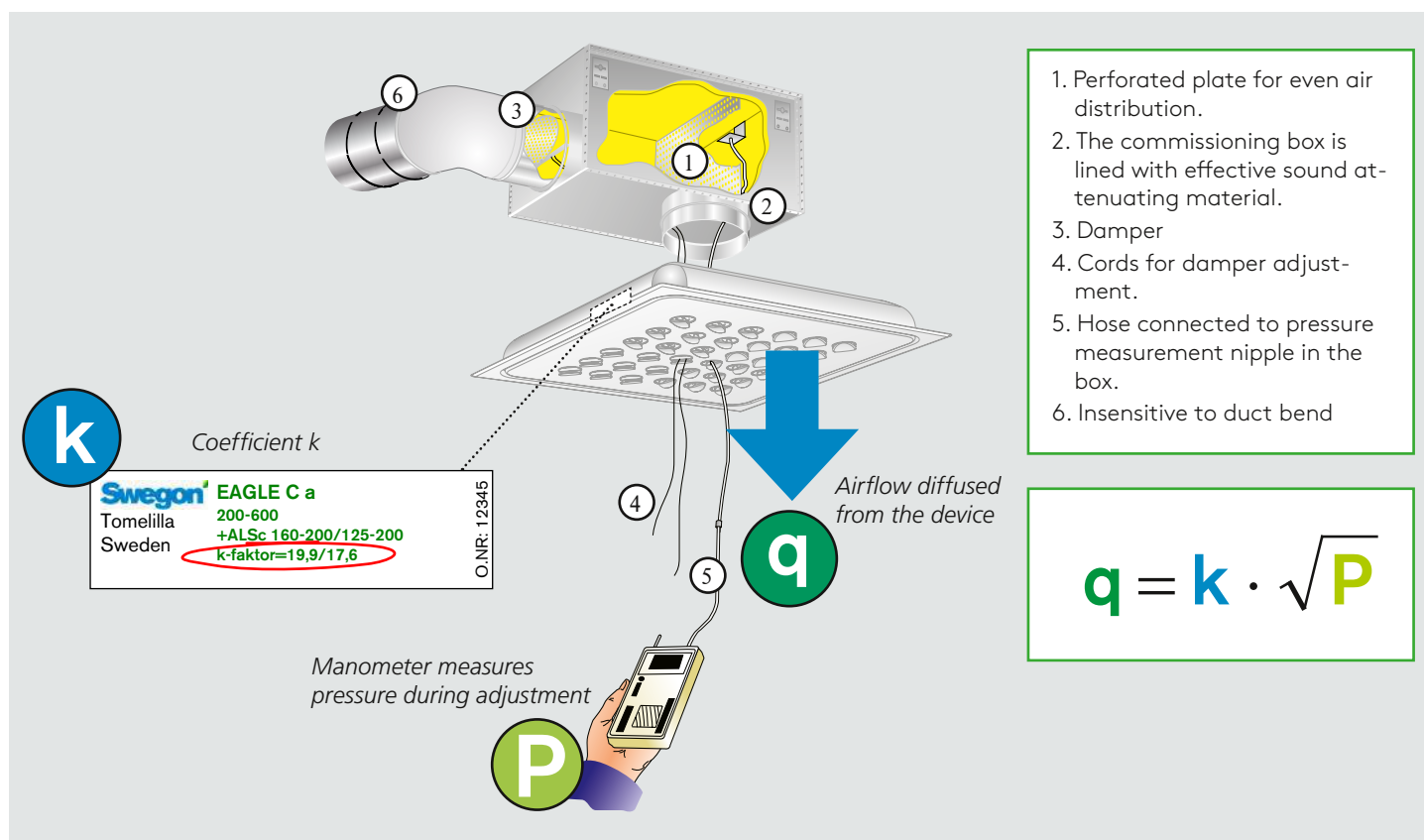
Other

Adjustable between mixing and displacement function.

Accessory: VHC control equipment.

For complete specifications, visit: www.swegon.com.

Find balance quickly and accurately



A well balanced air distribution system is quiet, free of draught, energy efficient and it distributes air evenly between the rooms. Therefore it is important that the system is accurately commissioned.

Swegon's ALS commissioning box makes commissioning much easier. Instead of having to measure the airflow, the ALS has a unique solution for measuring the pressure. The airflow required can be calculated using the current manometer reading and a coefficient of performance, symbolised by a "k", specified on all of Swegon's air diffusers. Measuring the pressure instead of the airflow is done more quickly, is much more accurate, cuts installation costs and provides better balance in the system with all its advantages!



Quick Access when commissioning, means that it is quick and simple to mount and dismantle the face plate.

Benefits

Reduced demand for energy

A well-balanced system is less burdensome on the ventilation unit.

– Lower operating costs.

Flexibility and logistics

The commissioning box fits all of Swegon's ceiling air diffusers. Always in stock.

– Quick delivery.

Accurate measurement values

Pressure measurements involve very small margins of error.

– Better balanced systems. Right airflow and climate in all the rooms. Better comfort.

Brief facts

- Fits all of Swegon's ceiling diffusers.
- Pressure measurement hose and cord for damper adjustment.
- Flow control, sound attenuation, pressure measurement and air distribution in one and the same box.
- Max. 5% deviation of the flow.
- 90° duct bend can be connected directly to the plenum box.

Complete guide for commissioning on www.swegon.com

Ceiling diffusers



COLIBRI CC/CR

Square ceiling diffuser with square or circular disc pattern for supply and extract air.

q CC = 15–150 l/s, 60–540 m³/h
CR = 15–155 l/s, 60–560 m³/h

- 100% flexible diffusion pattern.
- Swirl function as a standard.
- Easy access with Quick Access
- Designed for modular suspended ceilings
- Can be used in combination with the ALS commissioning box.
- Feasible low installation height.
- Connection sizes: Ø125-400 mm.



EAGLE C

Square ceiling diffuser with discs for supply and extract air.

q 15–215 l/s, 60–775 m³/h

- 100% flexible diffusion pattern.
- Swirl function as a standard.
- Easy access with Quick Access
- Designed for modular suspended ceilings.
- Can be used in combination with the ALS commissioning box.
- Feasible low installation height.
- Connection sizes: Ø125-400 mm.



FALCON C

Adjustable, circular ceiling air diffuser for supply air.

q 20–625 l/s, 70–2250 m³/h

- Used for heating and cooling.
- Manual resetting of diffusion for size 125-500.
- Motorized resetting of diffusion for size 315-500.
- Can be used in combination with the ALS commissioning box.
- Connection sizes: Ø125-500 mm.



HAWK C

Square ceiling diffuser for supply and extract air.

q 20–245 l/s, 65–885 m³/h

- Design perforations arranged in a circular pattern.
- Adapted for "flush" ceiling mounting.
- Easy access with Quick Access
- Designed for modular suspended ceilings.
- Feasible low installation height.
- Can be used in combination with the ALS commissioning box.
- Connection sizes: Ø125-400 mm.



LOCKZONE C

Square ceiling diffuser for supply and extract air.

q 20–220 l/s, 65–790 m³/h

- Guide vane perforations in rotation patterns.
- Designed for flush ceiling mounting.
- Easy access with Quick Access
- Designed for modular suspended ceilings.
- Can be used in combination with the ALS commissioning box.
- Connection sizes: Ø125-400 mm.



PELICAN CS

Square perforated ceiling air diffuser for supply air.

q 15–225 l/s, 60–820 m³/h

- Adjustable air distribution pattern
- Easy access with Quick Access
- Feasible low installation height.
- Can be used in combination with the ALS commissioning box.
- Large throttling range.
- Connection sizes: Ø125-400 mm.

Ceiling diffusers

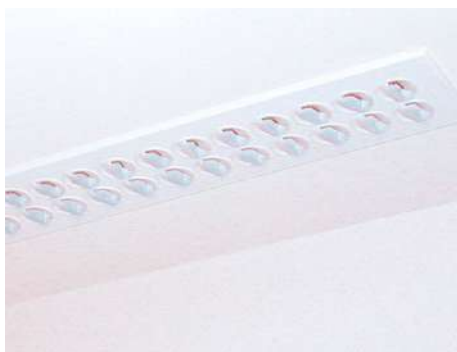


SWAN/SWAN WTW

Rectangular linear air diffuser for supply and extract air.

q 40–150 l/s, 145–540 m³/h

- Modular length 1200 mm with two, three or four slots
- Horizontal/vertical air distribution
- WTW-version makes long lengths possible, so-called wall-to-wall mounting
- Telescopic function
- Can be used in combination with the ALS commissioning box.
- Removable damper
- Connection sizes Ø160-250 mm



SRY

Rectangular supply air diffuser for ceiling-mounting.

q 10–190 l/s, 35–685 m³/h

- 100% flexible diffusion pattern.
- Possibility to mount together into long lengths.
- Measurement and regulation functions.
- Removable damper.
- Connection sizes: Ø125-200 mm.



SWIFT C

Square ceiling air diffuser for supply air and extract air.

q 55–150 l/s, 200–540 m³/h

- Easy access with Quick Access
- Designed for “flush” ceiling mounting
- Rotational air discharge pattern
- Designed for modular suspended ceilings
- Can be used in combination with the ALS commissioning box.
- Connection sizes Ø200-315 mm



VIREO C

Square ceiling air diffuser for supply air.

q 100–250 l/s, 360–900 m³/h

- Easy access with Quick Access
- Designed for “flush” ceiling mounting
- Rotational air discharge pattern
- Designed for modular suspended ceilings
- Can be used in combination with the ALX commissioning box.
- Connection size Ø400 mm



LPA

Circular ceiling air diffuser for supply or extract air.

q 25–235 l/s, 90–850 m³/h

- Guide vane perforations in rotation pattern.
- Designed for flush mounting in plaster-board ceiling.
- Easy to install.
- Can be used in combination with the ALS commissioning box
- Connection sizes: Ø160-400 mm

Ceiling diffusers



CBE

Circular ceiling diffuser with unidirectional diffusion of supply air.

q 10–70 l/s, 40–245 m³/h

- Unidirectional diffusion pattern, rotatable.
- Short throw.
- Easy to install.
- Can be used in combination with the ALS commissioning box.
- Suitable for concrete hollow-core floor/ceiling slabs.
- Connection sizes: Ø100-160 mm.



CDD/CDR

Circular ceiling diffuser for supply air.

q 20–190 l/s, 45–685 m³/h

- Diffusion pattern can be blanked off.
- Can be used in combination with the ALS commissioning box.
- Adjustable slot.
- Perforated diffuser face = CDD.
- Unperforated diffuser face = CDR.
- Connection sizes: Ø100-315 mm.



CDK/CKP

Circular ceiling diffuser for supply air.

q 15–300 l/s, 60–1080 m³/h

- Diffusion pattern can be blanked off.
- Adjustable slot.
- Can be used in combination with the ALS commissioning box.
- Aerodynamically designed outlet cone.
- Unperforated diffuser face = CDK.
- Perforated diffuser face = CKP.
- Connections sizes: Ø100-315 mm.

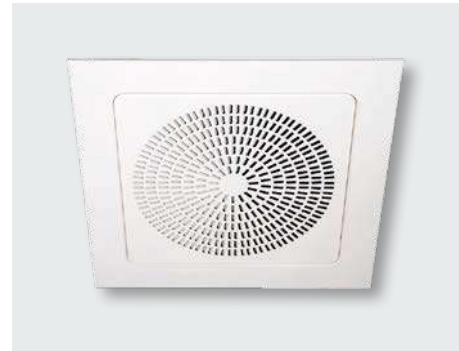


DOMO

Square ceiling/wall diffuser for supply air in rooms with low air flows.

q 5–25 l/s, 20–80 m³/h

- Modern design.
- Measurement and commissioning functions.
- The same design for ceiling or wall mounting.
- Environmentally conscious material selection.
- Connection size: Ø100.

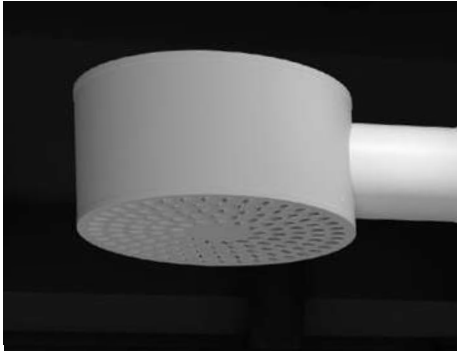


ADAPTER

For the adaptation to most commonly used modular suspended ceilings.

- To achieve a uniform appearance in the premises.
- Fits a wide range of different ceiling systems: Ecophon, Dampa, Lay-in.

Ceiling diffusers, exposed



COLIBRI F

Circular ceiling air diffuser for supply or extract air.

q 10–260 l/s, 40–940 m³/h

- 100% flexible diffusion pattern.
- Swirl function as a standard.
- Removable damper.
- Easy to dismantle diffuser front plate.
- Can be used as an extract air diffuser.
- Connection sizes: Ø100-400 mm.



EAGLE F

Circular ceiling air diffuser for supply or extract air.

q 10–350 l/s, 40–1260 m³/h

- 100% flexible diffusion pattern.
- Swirl function as a standard.
- Removable damper.
- Easy to dismantle diffuser front plate.
- Can be used as an extract air diffuser.
- Connection sizes: Ø100-400 mm.



EAGLE S

Circular ceiling diffuser with discs for supply air.

q 20–300 l/s, 60–1080 m³/h

- 100% flexible diffusion pattern.
- Swirl function as a standard.
- Can be used in combination with the ALS commissioning box.
- Connection sizes: Ø100-400 mm.



FALCON C

Adjustable, circular ceiling air diffusers for supply air.

q 20–625 l/s, 70–2250 m³/h

- Used for heating and cooling.
- Manual resetting of diffusion for size 125-500.
- Motorized resetting of diffusion for size 315-500.
- Can be used in combination with the ALS commissioning box.
- Connection sizes: Ø125-500 mm.



FALCON HF

Circular ceiling air diffuser for supply air.

q 300–1500 l/s, 1080–5400 m³/h

- Used for cooling (horizontal spread) and heating (vertical spread).
- Manual resetting of diffusion as standard, motorized as accessory.
- Same total pressure drop for horizontal and vertical diffusion.
- Connections sizes: Ø315-500 mm



LOCKZONE F

Circular ceiling diffuser for supply air in rooms without suspended ceiling.

q 30–230 l/s, 115–830 m³/h

- Guide vane perforations, LockZone
- Variant for flow-through installation.
- Short throw.
- Removable damper.
- Connection sizes: Ø125-315 mm

Extract air terminals



PELICAN CE

Square perforated ceiling air diffuser for extract air.

q 15–450 l/s, 50–1600 m³/h

- Large throttling range
- Designed for modular suspended ceilings
- Can be used in combination with the ALS commissioning box
- Connection sizes: Ø125-400 mm



PELICAN CE HF

Square perforated ceiling air diffuser for extract air.

q 18–700 l/s, 65–2500 m³/h

- Easy access with Quick Access
- Manages large extract airflows
- Designed for “flush” ceiling mounting
- Designed for modular suspended ceilings
- Can be combined with ALS commissioning box
- Alternatively for centralized extract air with separate silencer and damper
- Connection sizes Ø160-400 mm



EXP

Square perforated ceiling air diffuser for extract air.

q 250–950 l/s, 900–3420 m³/h

- Manages large extract airflows
- For placement directly in suspended ceiling systems of the type visible T-bars, lay in
- Designed for modular suspended ceilings
- Without duct connection
- En storlek, 600x600 mm tre perforeringsalternativ



ALG

Rectangular wall/ceiling diffuser for supply, extract and transfer air.

q 20–300 l/s, 70–1100 m³/h

- 50% free area
- Fixed diffusion pattern
- Installed using an FHA or FHB mounting frame or TRG commissioning box
- Standard sizes: 200x100 – 600x200 mm



EXC

Extract air terminal.

q 10–80 l/s, 30–285 m³/h

- Large throttling range
- High natural attenuation
- Lockable adjustment
- Connection sizes: Ø100-200 mm



EXF

Extract air terminal.

q 5–115 l/s, 18–415 m³/h

- Large throttling range
- High natural attenuation
- Lockable adjustment
- Simple installation with spring mounting
- Connection sizes: Ø100-160 mm



GRC

Circular wall/ceiling grill for extract and transfer air.

q 60–1100 l/s, 215–3960 m³/h

- 90% free area
- Manages large airflows
- Spigot connection
- Connection sizes: Ø160–630 mm



GRL

Rectangular wall/ceiling grilles for extract and transfer air.

q 25–510 l/s, 90–1890 m³/h

- 90% free area
- Manages large airflows
- Installed using an FHA or FHB mounting frame or TRG commissioning box
- Standard sizes: 200x100 – 600x200 mm

Wall air diffusers



COLIBRI W

Wall air diffuser with discs for supply air.

q 10–100 l/s, 45–360 m³/h

- 100% flexible diffusion pattern.
- 1-way standard
- Adjustable slot for increased capacity.
- Can be used in combination with the ALV commissioning box.
- Measurement and control function
- Standard sizes: 300x150 – 550x300 mm



EAGLE W

Wall air diffuser with discs for supply air.

q 15–135 l/s, 60–490 m³/h

- 100% flexible diffusion pattern
- 1-way standard
- Adjustable slot for increased capacity
- Can be used in combination with the ALV commissioning box
- Measurement and control function
- Placement in the room inside corner possible
- Standard sizes: 300x150 – 550x300 mm

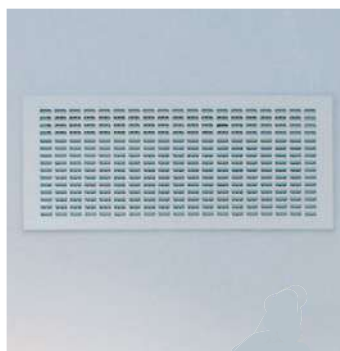


IBIS W

Duct air diffuser with discs for supply air. Mounted where wall meets ceiling.

q 80–160 l/s, 280–580 m³/h

- 100 % flexible diffusion pattern
- Simple to install where the wall meets the ceiling
- Modular length 1500 mm
- Optional connection, rear/side
- Active length, max. 4500 mm
- Connection size: Ø200 mm

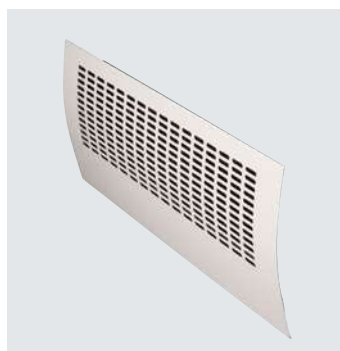


LOCKZONE W

Rectangular perforated wall air diffuser for supply air.

q 15–160 l/s, 60–580 m³/h

- LockZone guide vane perforations.
- Measurement and control function.
- Can be used in combination with the ALV commissioning box.
- Standard sizes: 300x150 – 550x300 mm



PELICAN W

Rectangular wall air diffuser with perforated front plate for supply air.

q 15–130 l/s, 60–470 m³/h

- Flexible air distribution pattern, easy to set
- Simple commissioning, fixed measurement tapping
- Used with ALV commissioning box
- Standard sizes: 300x150 – 550x300 mm



DOMO

Square ceiling/wall diffuser for supply air in rooms with low air flows.

q 5–25 l/s, 20–80 m³/h

- Modern design.
- Measurement and commissioning functions.
- The same design for ceiling or wall mounting.
- Environmentally conscious material selection.
- Connection size: Ø100



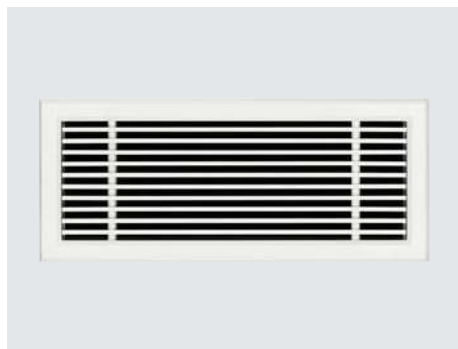
SDW

Bow-shaped wall diffuser for supply air in rooms with low air flows.

q 9–48 l/s, 32–173 m³/h

- Simple supply air diffuser for wall mounting
- Provision for commissioning and air flow measurement
- Throttling/magnetic strips on the inside of the front plate
- Connection size: Ø80-125 mm

Grille air diffusers



ALG

Rectangular wall/ceiling diffuser for supply, extract and transfer air

q 20–375 l/s, 65–1350 m³/h

- 50% free area
- Fixed diffusion pattern
- Installed using an FHA or FHB mounting frame or TRG commissioning box
- Available in a special version for hospitals
- Standard sizes: 200x100 – 600x200 mm

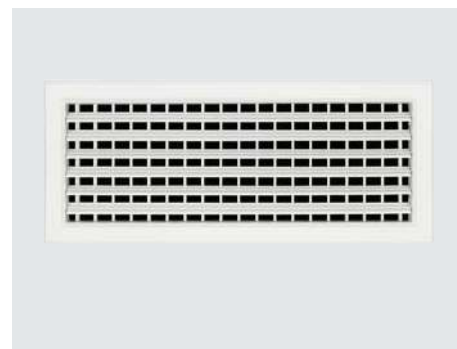


EIV

Circular wall grille for supply air

q 15–75 l/s, 50–270 m³/h

- Can be used in combination with the ALS commissioning box
- Adjustable air deflectors
- Easy to install
- Connection sizes: Ø100-160 mm

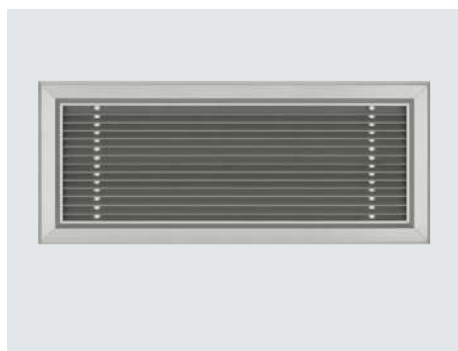


GTH

Rectangular wall grille for supply air.

q 30–350 l/s, 100–1260 m³/h

- 70% free area
- Adjustable deflectors
- Installed using an FHA or FHB mounting frame or TRG commissioning box
- Standard sizes: 200x100 – 600x200 mm



LTA

Light trapping wall grille for transfer air.

q 15–200 l/s, 50–720 m³/h

- Stops light penetration
- Two grilles painted black in series are sufficient for dark room walls
- Telescopic flanged frame
- Standard sizes: 200x100 – 800x200 mm



MFA/UFA/UFK

Universal grille for mounting in floors, walls and window sills.

- Can be used for both supply and extract air
- Extremely versatile, can be customized for every need
- Can be supplied in unlimited lengths
- Made of anodised aluminium
- Available in anodised finish

Duct air diffusers



IBIS

Duct air diffuser with discs for supply air.

q 30–900 l/s, 105–3240 m³/h

- 100% flexible diffusion pattern
- Suspended installation
- 1500 mm long module
- Connection sizes: Ø160-630 mm
- Maximum active length: 4500 mm



KDY

Duct air diffuser for mounting directly in ventilation ducts.

q 20–140 l/s, 65–505 m³/h

- 100% flexible diffusion patterns
- Easy to install
- Is available both for circular and rectangular ducts
- Is specially designed for rebuilding and extension repair

Displacement units with Booster function



BOC Varizon®

Displacement unit with heating function.

q 160–1600 l/s, 580–5760 m³/h

- Varizon® air diffusion system
- For rooms heated and cooled by air
- Electric actuator or manual setting
- For rooms with high ceiling heights
- Requires no floor surface
- Connection sizes: Ø200-630 mm

Displacement units



DBC Varizon®

Displacement unit with adjustable diffusion pattern.

q 75–880 l/s, 270–3170 m³/h

- Adjustable diffusion pattern and near zone
- Well-suited for all types of rooms where high demands are placed on design and finish
- Measurement tapping
- Connection sizes: Ø200–400 mm, Φ 200x600–300x600 mm



DCP Varizon®

Displacement unit with adjustable diffusion pattern.

q 60–1200 l/s, 210–4320 m³/h

- Adjustable diffusion pattern and near zone
- Well-suited for all types of rooms
- Measurement tapping
- Available in induction design
- Connection sizes: Ø125–630 mm



DHC Varizon®

Displacement unit with adjustable diffusion pattern.

q 25–1750 l/s, 90–6300 m³/h

- Adjustable diffusion pattern and near zone
- Well-suited for all types of rooms
- Measurement tapping
- Available in induction design
- Connection sizes: Ø125–800 mm



DIR Varizon®

Displacement unit with adjustable diffusion pattern.

q 30–150 l/s, 105–535 m³/h

- For flush mounting in walls
- Adjustable diffusion pattern and near zone
- Well-suited for all types of rooms
- Measurement tapping
- Connection sizes: Ø100–200 mm



DRI Varizon®

Displacement unit with adjustable diffusion pattern.

q 70–1150 l/s, 255–4140 m³/h

- For flush mounting in walls
- Adjustable diffusion pattern and near zone
- Well-suited for all types of room
- Measurement tapping
- Connection sizes: Ø200–400 mm, Φ 250x800 mm



DVC Varizon®

Displacement unit with adjustable diffusion pattern.

q 25–580 l/s, 90–2090 m³/h

- Adjustable diffusion pattern and near zone
- Well-suited for all types of rooms
- Measurement tapping
- Available in induction design
- Connection sizes: Ø125–400 mm

Clean room air diffusers



CONDOR Varizon®

Supply air ceilings with discs for large airflows.

q 125–690 l/s, 450–2490 m³/h

- 100% flexible diffusion pattern
- 600 x 600 mm disc diffuser modules
- Varizon® air distribution system



CDH/CLH

Ceiling air diffuser with micro filter for clean rooms.

q H14 class, max 200 l/s, 720 m³/h

- Rectangular or circular duct connection
- Equipped with micro-filter with gel or rubber seal
- Painted interior
- Measurement tapings for dip test and pressure measurement across the filter
- Perforated or disc diffuser face
- Four sizes



OPL

Supply air ramps with micro filter for operating theatres.

q 650 l/s, 2340 m³/h

- Airflow specially adapted for operating theatres
- Pressure outlet for filter guard
- Can be opened
- Cleanable
- Micro-filter with rubber seal

Transfer units



CIRCO

Sound attenuating transfer units.

q < 55 l/s, 200 m³/h

- For transferring air through walls
- Circular installation opening
- Mounting frame integrated in the transfer diffuser
- Suitable for use in rooms with normal sound-attenuating requirements



ORTO

Sound attenuating transfer units.

q < 115 l/s, 415 m³/h

- For transferring air through walls
- Rectangular installation opening
- Suited for installation above doors
- Suitable for use in rooms with normal sound-attenuating requirements



SOTTO

Sound attenuating transfer units.

q < 40 l/s, 145 m³/h

- For transferring air through walls
- Circular installation opening
- Suitable for walls with high sound-attenuating requirements



CTK/CTM

Sound attenuating transfer units for large airflows.

**q CTK ≤ 220 l/s, 795 m³/h
CTM ≤ 200 l/s, 720 m³/h**

- For transferring air through walls
- Conforms to crosstalk requirements through walls
- Type-approved sound attenuating material.

Floor air diffusers

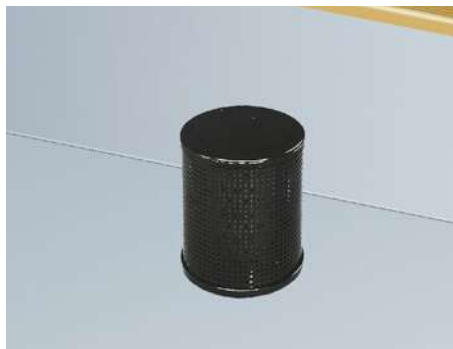


LOCKZONE B

Vortex air diffuser for raised floors.

q 10–60 l/s, 45–115 m³/h

- Robust sheet steel design
- Can be used in combination with ALS commissioning box with damper function or dirt trap LOCKZONE T
- Connection sizes: Ø100–200 mm



DCC

Circular displacement unit for small airflows.

q 15–25 l/s, 60–85 m³/h

- The diffusers are mounted under chairs in the vertical step or in the horizontal plane of the floor.
- Fixed radial diffusion pattern
- Pressure raising insert



DPG

Circular displacement unit for small airflows.

q 10–35 l/s, 30–125 m³

- The diffusers are mounted under chairs in the vertical step.
- Fixed diffusion pattern
- Pressure raising insert
- Maintenance free
- Suitable also as traditional wall diffuser near ceiling



DRG

Rectangular displacement unit for small airflows.

q 15–20 l/s, 50–70 m³/h

- The diffusers are mounted under chairs in the vertical step.
- Adjustable diffusion pattern and near zone.

Reinforced air diffusers

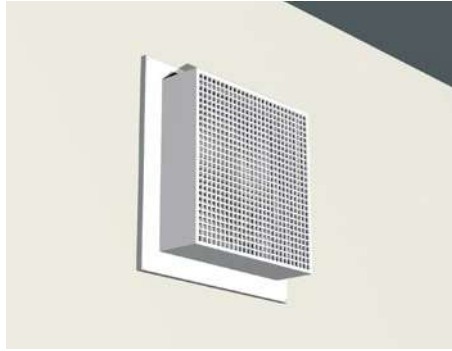


ROC

Circular supply and extract air diffuser.

q 20–45 l/s, 65–165 m³/h

- Robust design
- Supply or extract air
- Guide vane perforations
- Can be used in combination with the ALS commissioning box
- Two connection sizes: Ø125 and Ø160 mm



ROE

Square wall air diffuser for extract air.

q 20–45 l/s, 65–165 m³/h

- Robust design
- Easy to install
- Large throttling range
- High natural attenuation
- Lockable adjustment
- Connection sizes: Ø100-200 mm



ROT

Rectangular sound attenuating transfer air diffuser.

q ≤ 80 l/s, ≤ 295 m³

- Robust design
- For transferring air through walls
- Rectangular installation opening
- Easy to install



ROW

Rectangular wall air diffuser.

q 25–90 l/s, 85–310 m³/h

- Fixed radial diffusion pattern
- Pressure raising insert
- Easy to install
- Available in a large number of special versions for optimal adaptation to rooms
- Two connection sizes: Ø125 and Ø160 mm



CKD

Adjustable, circular, ceiling/wall, so-called jet diffuser for supply air.

q 60–450 l/s, 210–1620 m³/h

- Cone unit adjustable through 360°, for diffused or concentrated diffusion pattern.
- Manual or motorised adjustment of the diffusion pattern.
- Suitable for supplying air warmer than room temperature.
- Can be used in combination with the ALS commissioning box.
- Connection sizes: Ø200-500 mm.

CLIK



Supply air diffuser for wall mounting in homes

Design diffuser, flush or surface mounted, with changeable color fronts

Easy commissioning and airflow measuring

Dimension	Airflow		Sound dB(A)	Pressure (Pa)
	l/s	m3/h		
CLIK 100	18	65	25	30
CLIK 125	23	83	25	40
All rows open				



Technical description

Design

CLIK is a design supply air diffuser for premises with small airflows. It is ideal for rooms with high requirements considering draft and noise levels. Thanks to its changeable cover, CLIK supply air diffuser is suitable for any room either faded to the background or emphasized as an interior decoration element. Beside to the basic white cover, stylish black, dark beige, warm or cool shades of metallic and trendy golden yellow are also available.

Materials and finish

CLIK is produced in powder coated steel sheet, white standard color RAL9016. Different front colors can be selected, black (9005) beige (1035), warm metallic (7032) cool metallic (9006) golden yellow (1007).

Project planning

Use dimensioning charts to design the unit. Sound from a diffuser mounted directly after a bend (4 dB) or T-piece (8 dB) will increase the sound compared to charts. CLIK supply air diffuser can be installed in two ways, flush mounted (A) or Surface mounted (B).

Installation and commissioning

CLIK is extremely easy to install and pre-adjust with the help of protective sheet delivered with packing. The protective sheet also protects the cover of the product efficiently during delivery and before commissioning. Protective sheet includes all the details needed in pre adjustment like k factors and adjustment graphs. Thanks to its unique opening mechanism, the cover of CLIK is extremely easy to CLIK open during maintenance and adjustment.

Maintenance

Clean air diffuser when necessary using warm water and soap. Alternatively use a vacuum cleaner.

K-factor

A pressure of at least 5 Pa is required to obtain at least ± 10% accuracy of the airflow.

Environment

Building declaration is downloadable at our homepage www.swegonhomesolutions.se accuracy of the airflow.

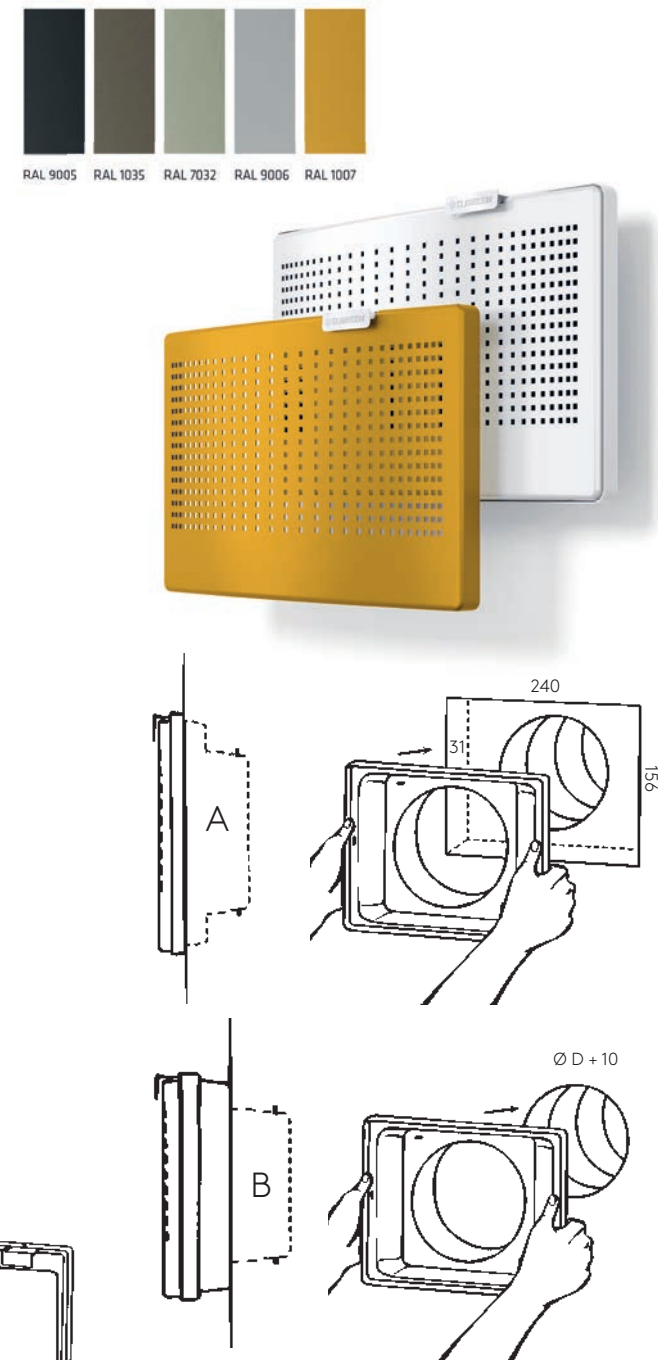
$$q = k \cdot \sqrt{p}$$
$$p = \left(\frac{q}{k}\right)^2$$

q = Airflow l/s

p = Pressure (Pa)

k = Commissioning factor

Figure 1. commissioning



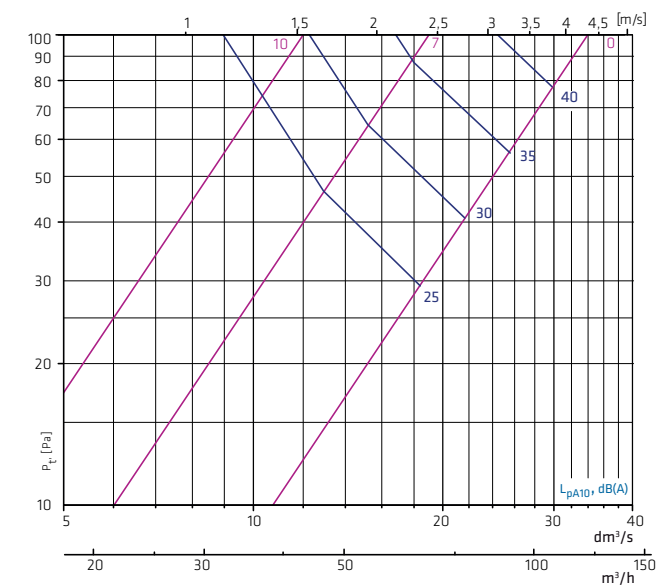
Horizontal rows closed	k
0	3,6
1	3,4
2	3,1
3	2,9
4	2,6
5	2,4
6	2,2
7	1,9
8	1,7
9	1,4
10	1,2
11	1,0
12	0,7
13	0,5

Dimensioning

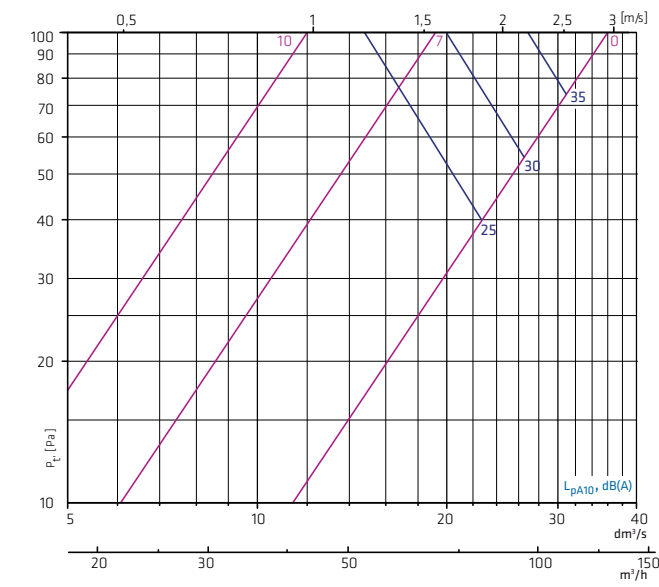
- Throw length in the chart is presented at isothermal conditions
- In general, the aim should be to have the air distribution covering up so much of the room as possible.
- Throw length is presented with isovel 0.20 m/s. In winter cases with request for isovel 0.15 m/s correction factor 0.8 is used. In summer case with requests for isovel 0.25 m/s use the correction factor 1.2.

- Recommended max. under-temperature is 5K.
- Noise level is presented in dB(A) with an acoustic room absorbance of 4 dB (10m2 equivalent sound absorption area).
- Mounting directly after a bend (4 dB) or T-piece (8 dB) will increase the sound compared to charts

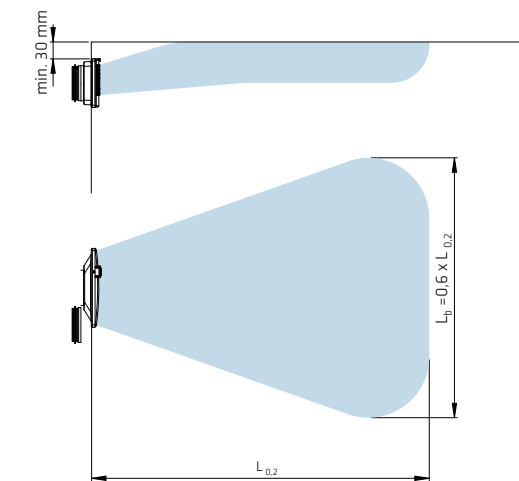
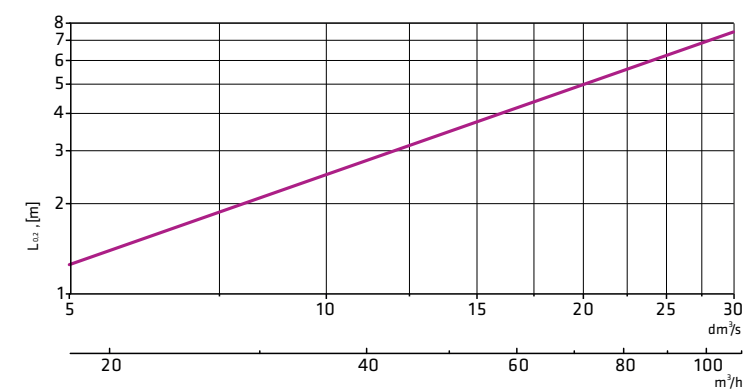
CLIK-100



CLIK-125



THROW LENGHT



Sound data

SOUND POWER LEVEL L_w (dB) TABLE

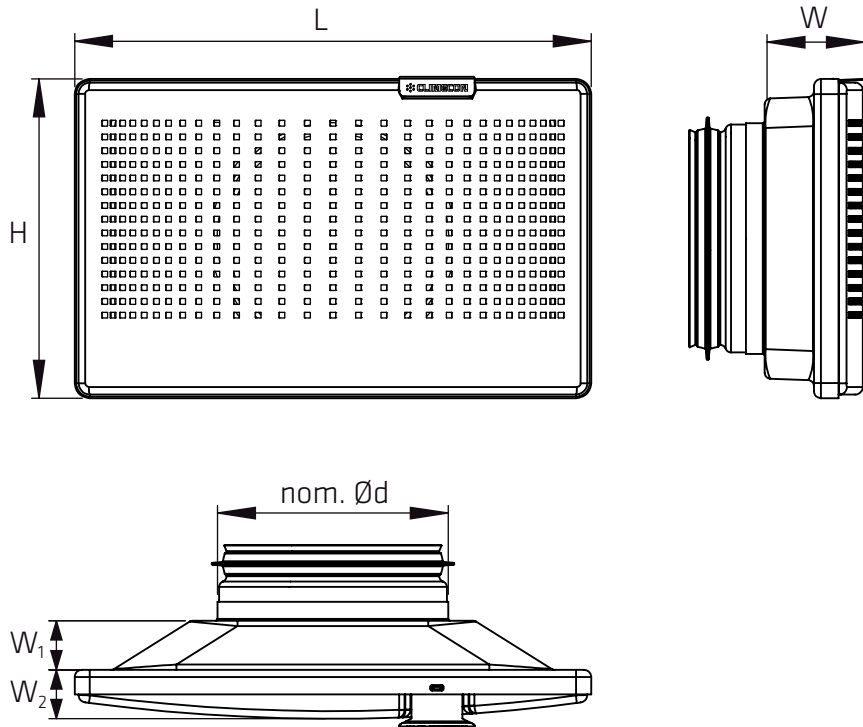
Dimension	Frequency (octave) Hz						
	63	125	250	500	1000	2000	4000
100	-7	-7	-5	-3	-2	-3	-6
125	-7	-5	-6	-4	-3	-2	-6
Tol +/-	6	3	2	2	2	2	2

SOUND ATTENUATION ΔL (dB) TABLE

Dimension	Frequency (octave) Hz						
	63	125	250	500	1000	2000	4000
100	21	17	10	2	-1	3	3
125	19	14	9	2	1	3	4
Tol +/-	6	3	2	2	2	2	2

Dimensions and weight

	nom Ød	L	H	W	W ₁	W ₂
CLIK-100	100	273	169	52	26	26
CLIK-125	125	273	169	52	26	26



Order key

Product

Supply air diffuser: CLIK - aaa

Dimension: 100, 125

Accessory

Changeable cover CCC bbb

9005, 1035, 7032, 9006, 1007

Specification text

QMC SUPPLY AIR DIFFUSER FOR WALL MOUNTING

Perforated design supply air diffuser for premises with small airflows. Quick and easy commissioning, and possible to select with additional front cover in variable colors

TDXX
 Supplier: Swegon
 Type: CLIK (+ CCC-bbb)
 Dim. aaa xx pcs

PINODq



Extract air valve with exceptional design

- Convex design
- Square perforation
- Easy commissioning and airflow measuring

Dimension	Airflow		Sound dB(A)	Pressure (Pa)
	l/s	m3/h		
PINODq 100	16	58	25	80
PINODq 125	22	79	25	90
3 (Ø100) and 4 (Ø125) perforated rows open				



Technical description

Design

The convexly shaped PINOD is a representative of classic Nordic design with clean lines. The silent and easily cleaned PINOD is available with square perforation. Reliable measurement combined with quick and precise commissioning.

Materials and finish

PINOD is produced in powder coated steel sheet, white standard color RAL9016

PINODq is also available in alternative colors, Pure white (9010), jet black (9005), white aluminum (9006) and grey aluminum (9023+9007).

Project planning

Use dimensioning charts to design the unit. Sound from a valve mounted directly in connection with a bend (4 dB) or T-piece (8 dB) will increase the sound compared to charts.

Installation and commissioning

Install PINODq by dismounting the front, insert the spigot in the duct, fasten with screws or rivet and re-mount the perforated front. When commissioning, start by measuring the pressure with the valve fully open. Dismount the front again, use the accompanying magnet strips and cover desired amount of rows. Re-mount the cover and measure again. Use the k-factor and a pressure measurement equipment to set the correct airflow

Maintenance

Clean air diffuser when necessary using warm water and soap. Alternatively use a vacuum cleaner.

K-factor

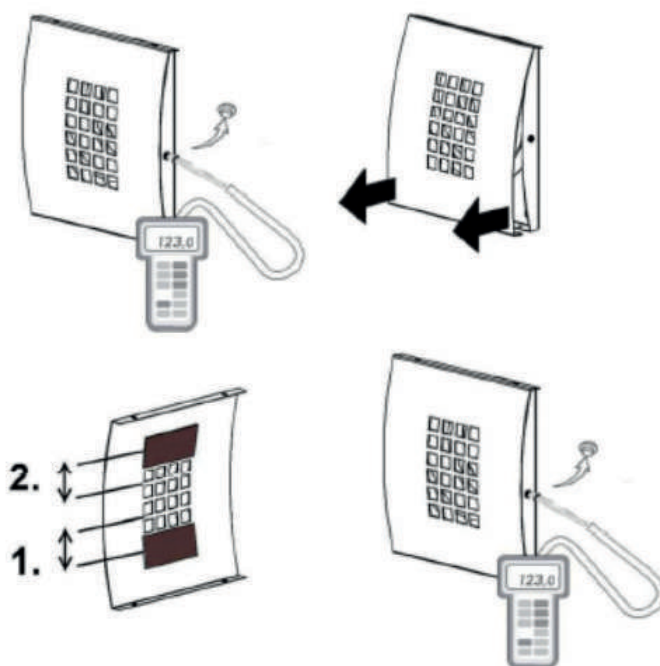
A pressure of at least 5 Pa is required to obtain at least $\pm 10\%$ accuracy of the airflow.

Environment

Building declaration is downloadable at our homepage www.swegonhomesolutions.se

Also available in the following colours:

 Pure white RAL 9010	 Jet black RAL 9005	 White aluminium RAL 9006	 Grey aluminium RAL 9023+9007
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$$q = k \cdot \sqrt{p}$$

$$p = \left(\frac{q}{k}\right)^2$$

q = Airflow l/s
 p = Pressure (Pa)
 k = Commissioning factor

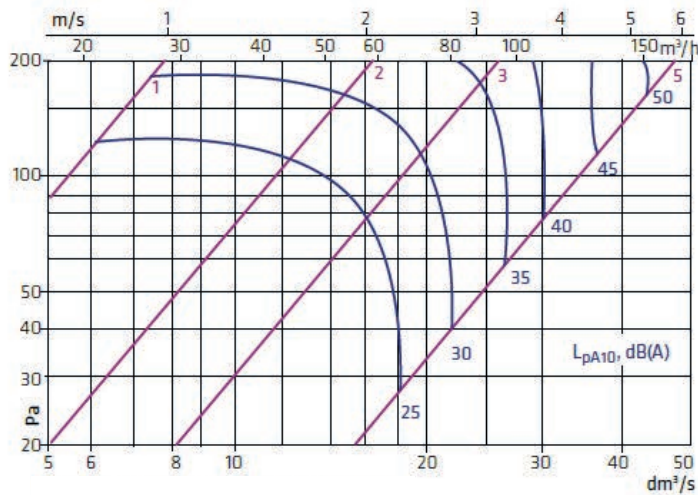
Figure 1. commissioning

		k	
PINODq		100	125
		5x4x=20	6x4=24
A		2,5	3,1
Closed rows	1	2,0	2,6
	2	1,5	2,1
	3	1,0	1,5
	4	0,5	1,0
	5		0,5

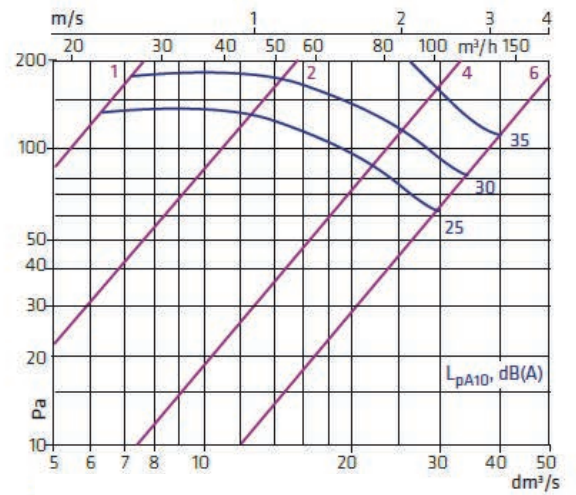
Dimensioning

- Noise level is presented in dB(A) with an acoustic room absorbance of 4 dB (10m² equivalent sound absorption area).
- Mounting directly after a bend (4 dB) or T-piece (8 dB) will increase the sound compared to charts
- The correction of the octave bands, and sound attenuation ΔL is specified for a fully open valve

PINODq-100



PINODq-125



Sound data

SOUND POWER LEVEL L_w (dB) TABLE K_{ok}

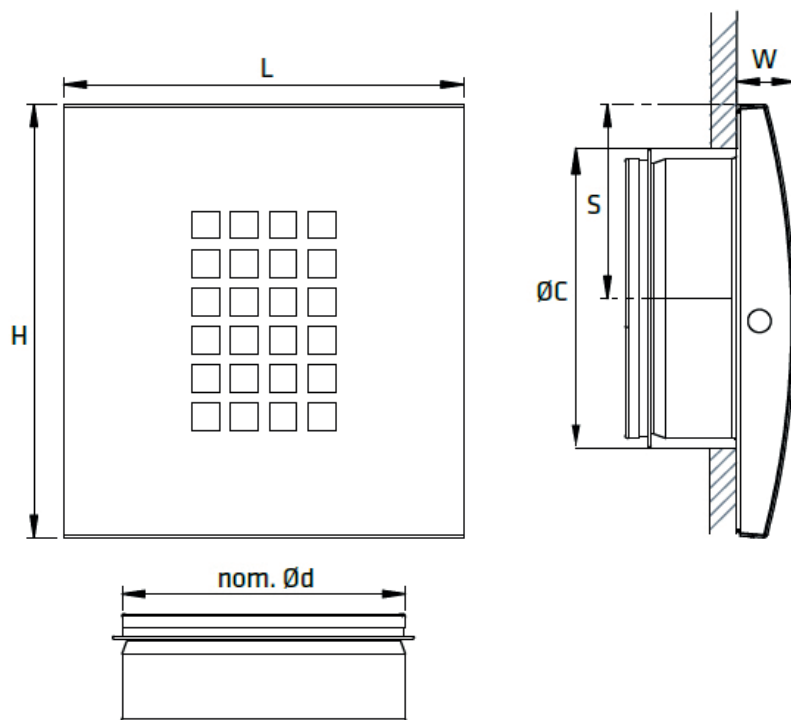
	Frequency (octave) Hz							
Dimension	63	125	250	500	1000	2000	4000	8000
100	-6	-2	-1	-2	0	-2	-9	-10
125	-11	-2	-3	-4	0	-2	-7	-8
Tol +/-	6	3	2	2	2	2	2	2

SOUND ATTENUATION ΔL (dB) TABLE

	Frequency (octave) Hz							
Dimension	63	125	250	500	1000	2000	4000	8000
100	22	16	11	7	0	5	2	3
125	19	14	9	3	1	6	3	4
Tol +/-	6	3	2	2	2	2	2	2

Dimensions and weight

	nom Ød	Ød	ØC	H	W	S	kg
PINODq-100	100	115	150	164	20	70	0,5
PINODq-125	125	145	175	192	25	82	0,6



Order key

Product

Extract air valve	PINODq	aaa
Dimension: 100, 125		

Alternative appearance

Color	RAL	bbb
9016(standard) 9010, 9005, 9006, (9023+9007)		

Specification text

QME EXTRACT AIR VALVE FOR WALL OR CEILING MOUNTING

Perforated design extract air valve for premises with small airflows. Quick and easy commissioning, and possible to select with alternative colors.

FDXX
 Supplier: Swegon
 Type: PINODq
 Color: RAL bbb
 Dim. aaa xx pcs

RINO



Supply/extract air diffuser for ceiling mounting in homes

- Elegant design and 6 color options
- Brilliant design that prevents dirt collecting around the diffuser
- Reliable measurement, quick and precise commissioning

Dimension	Airflow		Sound dB(A)	Pressure (Pa)
	l/s	m3/h		
RINO 100	16	58	25	25
RINO 125	22	79	25	22
RINO 160	32	115	25	17
RINOi 100	16	58	25	18
RINOi 125	24	86	25	17
Diffuser fully open				



Technical description

Design

RINO is a ceiling diffuser with exceptional design and extremely good air and sound properties.

Thanks to its design RINO is suitable for any room and interior style. In addition to the supply air diffuser, the series includes RINOi exhaust air diffuser. All the products have the same design. The exceptional design and the structure of RINO efficiently prevents dirt collecting around the ceiling diffuser.

Materials and finish

RINO is produced in powder coated steel sheet, white standard color RAL9016.

Different colors are available, off-white (9002), Light green (6034), cool metallic (9006) dark red (8029) and black (9005).

Project planning

Use dimensioning charts to design the unit. Sound from a diffuser mounted directly after a bend (4 dB) or T-piece (8 dB) will increase the sound compared to charts.

Installation and commissioning

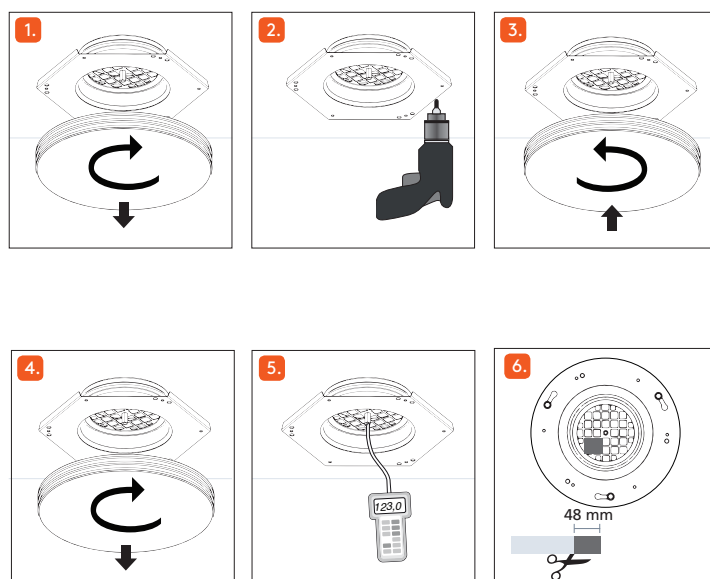
Install the diffuser by dismounting the front plate, fasten the ceiling frame part according to instructions, and re-attach the front plate. Use the accompanying magnet strips to cut and cover desired amount of holes. Use the k-factor and a pressure measurement equipment to set the correct airflow

Maintenance

A pressure of at least 5 Pa is required to obtain at least ± 10% accuracy of the airflow.

K-factor

Building declaration is downloadable at our homepage www.swegonhomesolutions.se



$$q = k \cdot \sqrt{p}$$

$$p = \left(\frac{q}{k}\right)^2$$

q = Airflow l/s
 p = Pressure (Pa)
 k = Commissioning factor

Figure 1. commissioning

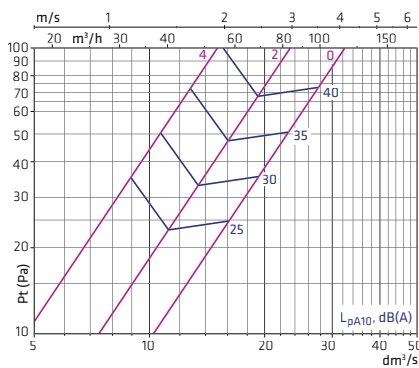
		RINO			
		100	125	100i	125i
Adjustment tape pcs (1 = 4 holes = 48mm)	0	3,14	4,48	3,40	4,90
	1	2,73	4,05	2,89	4,55
	2	2,31	3,70	2,52	4,10
	3	1,96	3,41	2,14	3,80
	4	1,59	3,04	1,78	3,40
	5	1,24	2,72	1,44	3,04
	6		2,44		2,68
	7		2,05		2,38
	8		1,73		1,96

Dimensioning

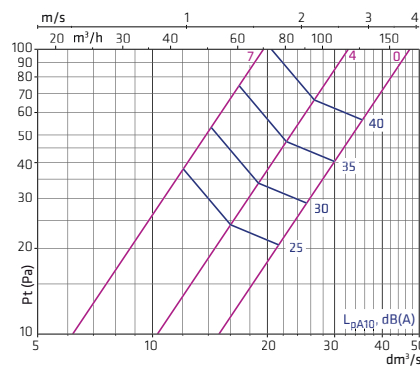
- Throw length is presented at isothermal conditions
- In general, the aim should be to have the air distribution covering up so much of the room as possible.
- Throw length is presented with isovel 0.20 m/s. In winter cases with request for isovel 0.15 m/s correction factor 0.8 is used. In summer case with requests for isovel 0.25 m/s use the correction factor 1.2.
- Recommended max. under-temperature is 10K.
- Noise level is presented in dB(A) with an acoustic room absorbance of 4 dB (10m² equivalent sound absorption area).
- Mounting directly after a bend (4 dB) or T-piece (8 dB) will increase the sound compared to charts

SUPPLY AIR

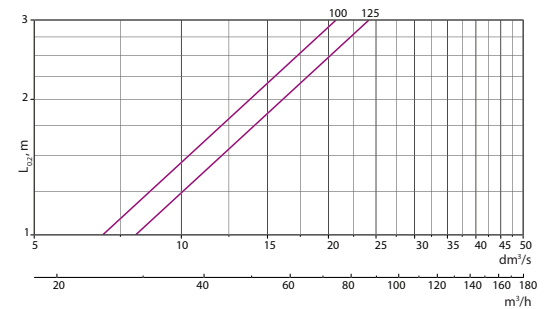
RINO 100



RINO 125

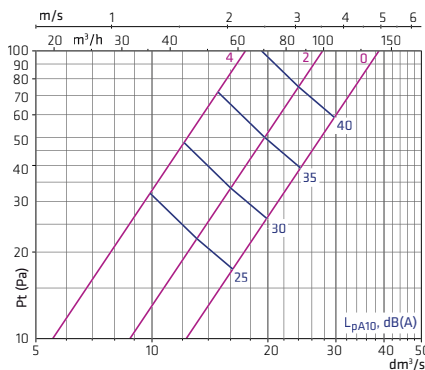


THROW LENGTH

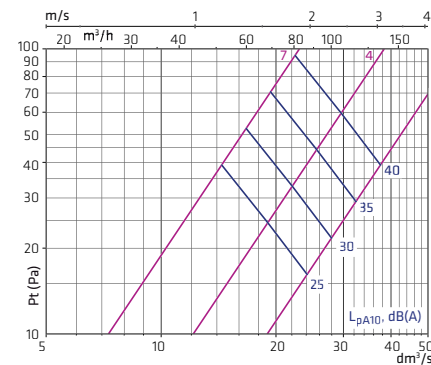


EXTRACT AIR

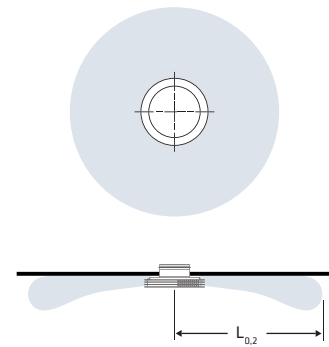
RINOi 100



RINOi 125



THROW PATTERN



Sound data

SOUND POWER LEVEL L_W (dB) TABLE K_{ok}

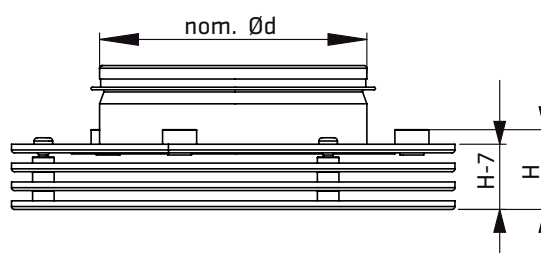
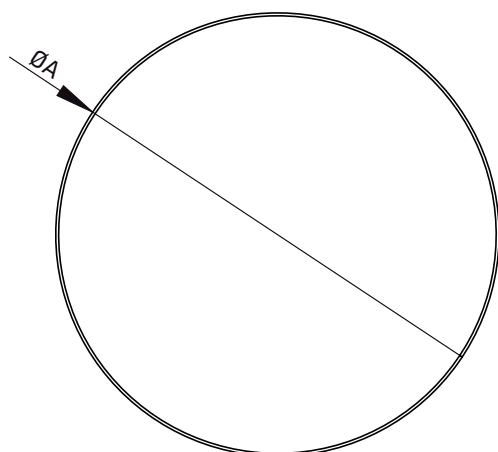
	Frequency (octave) Hz							
Dimension	63	125	250	500	1000	2000	4000	8000
RINO 100	4	7	4	1	-3	-5	-8	-14
RINO 125	1	4	3	1	-1	-5	-7	-14
RINOi 100	1	4	3	1	-1	-5	-7	-14
RINOi 125	-6	3	2	0	-3	-5	-7	-12
Tot +/-	6	3	2	2	2	2	2	2

SOUND ATTENUATION ΔL (dB) TABLE

	Frequency (octave) Hz							
Dimension	63	125	250	500	1000	2000	4000	8000
RINO 100	20	16	12	8	5	5	6	6
RINO 125	20	14	9	5	3	2	4	5
RINOi 100	20	14	9	5	3	2	4	5
RINOi 125	20	14	9	5	3	2	4	5
Tol +/-	6	3	2	2	2	2	2	2

Dimensions and weight

	nom Ød	ØA	H	kg
RINO 100	100	206	28	0,7
RINO 125	125	206	37	0,8
RINOi 100	100	206	28	0,7
RINOi 125	125	206	37	0,8



Order key

Product

Supply air diffuser:	RINO-	aaa
Dimension: 100, 125		

Alternative appearance

Color	RAL	bbb
9016(standard) 9002, 6034, 9006, 8029, 9005		

Product

Extract air diffuser:	RINOi	aaa
Dimension: 100, 125		

Alternative appearance

Color	RAL	bbb
9016(standard) 9002, 6034, 9006, 8029, 9005		

Specification text

QMC **SUPPLY AIR DIFFUSER FOR CEILING MOUNTING**

Multiple slot diffuser with commissioning possibility designed for premises with small airflows.

TDXX
 Supplier: Swegon
 Type: RINO
 Color: RAL bbb
 Dim. aaa xx pcs

QME **EXTRACT AIR DIFFUSER FOR CEILING MOUNTING**

Multiple slot diffuser with commissioning possibility designed for premises with small airflows.

FDXX
 Supplier: Swegon
 Type: RINOi
 Color: RAL bbb
 Dim. aaa xx pcs

SDK



Supply air diffuser for ceiling installation in homes

- Simple supply air diffuser for ceiling installation.
- With possibility of commissioning and airflow measuring.

Dimension	Airflow		Sound dB (A)	Pres- sure (Pa)
	l/s	m ³ /h		
SDK 100, 125-1v	23	83	25	40
SDK 100, 125-3v	29	104	25	38
At 13 mm distance				



Technical description

Design

SDK is a supply air diffuser that is designed for small areas and small air flows. SDK is available both as 1-way air spread and 3-way. The diffuser is made in powder coated steel sheet. The mounting frame is equipped with rubber seal to give a tight connection to the duct system.

Materials and finish

SDK is delivered in powder coated steel sheet, white standard color RAL9003 /NCS 0500-N. The mounting frame is made of galvanized sheet steel with rubber seal.

Project planning

Use dimensioning charts to design the unit. A diffuser mounted directly before a bend or T-piece will increase the sound with 3 dB (A) compared to charts.

Installation and commissioning

Always use mounting frame to mount the diffuser in circular ducts. The diffuser is easy to install in the frame with springs. A distance from the roof to prevent "dirt rings" in the ceiling.

The commissioning pressure is measured behind the sector plate and the airflow is calculated using the k-factor and the formula presented.

Observe the distance between the frame and the plate.

Sector plate position should be toward the outer radius of

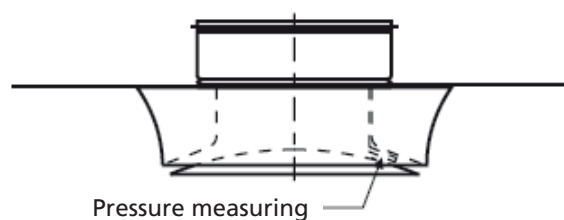
A diffuser mounted in a 90° bend.

Maintenance

Clean air diffuser when necessary using warm water and soap. Alternatively use a vacuum cleaner.

K-Factor

A pressure of at least 5 Pa is required to obtain at least ± 10% accuracy of the airflow.



$$q = k \cdot \sqrt{p}$$

$$p = \left(\frac{q}{k} \right)^2$$

q = Airflow l/s
 p = Pressure (Pa)
 k = Commissioning factor

Figure 1. commissioning

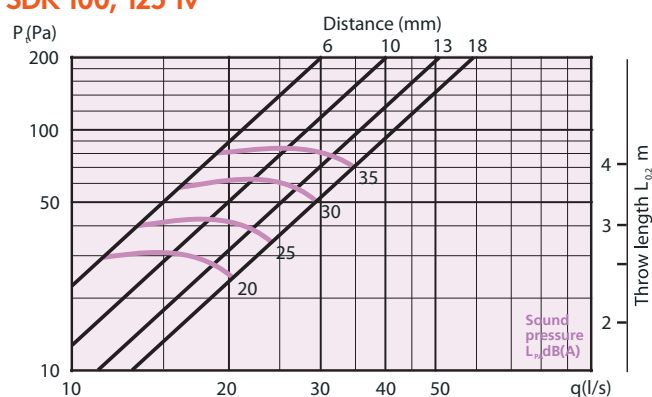
Product	Distance (mm)	Straight duct	90° bend
SDK 100-1v	6	2,0	2,0
	8	2,6	2,5
	10	2,9	2,8
	13	3,4	3,4
	18	4,2	4,2
SDK 100-3v	6	2,6	2,6
	8	3,4	3,2
	10	4,0	3,8
	13	4,9	4,6
	18	5,6	5,4

Product	Distance (mm)	Straight duct	90° bend
SDK 125-1v	6	2,0	2,0
	8	2,3	2,3
	10	2,8	2,8
	13	3,4	3,3
	18	3,7	3,9
SDK 125-3v	6	2,7	2,7
	8	3,4	3,3
	10	4,0	3,8
	13	4,7	4,6
	18	5,3	5,3

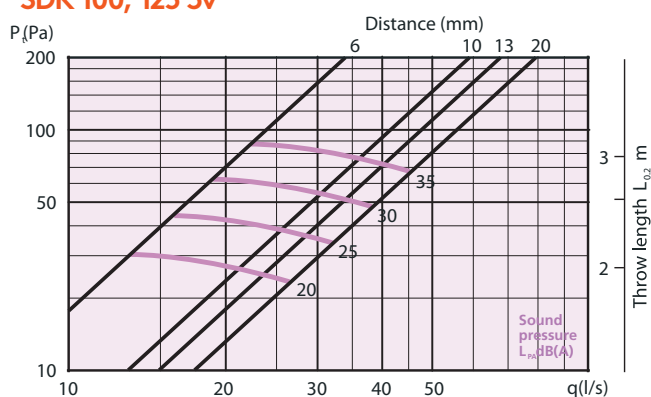
Sizing

- Throw length reported in sizing chart is dependent of the airflow.
- In general, the aim should be to have the air distribution covering up so much of the room as possible.
- Appropriate distribution pattern (1-way or 3-way) depends on the supply air device placement in relation to the room's appearance
- Throw length is presented with isovel 0.20 m/s. In winter cases with request for isovel 0.15 m/s correction factor 0.8 is used. In summer case with requests for isovel 0.25 m / s use the correction factor 1.2.
- Recommended max. under temperature is 10K.
- Noise level is presented in dB(A) with an acoustic room absorbance of 4 dB (10m² equivalent sound absorption area).
- Mounting directly in a bend or T-piece will create a 3 dB (A) noise increase compared to data reported in the sizing chart.

SDK 100, 125 1v



SDK 100, 125 3v



Sound data

Sound power level L_w (dB) table

Dimension	Frequency (octave) Hz							
	63	125	250	500	1000	2000	4000	8000
100, 125 1v	1	-2	5	3	-1	-7	-13	-26
100, 125 3v	4	1	5	3	-2	-7	-11	-25
Tol +/-	6	3	2	2	2	2	2	2

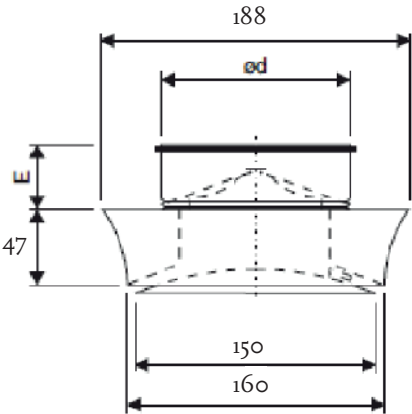
Sound attenuation ΔL (dB) table ΔL

Dimension	Frequency (octave) Hz							
	63	125	250	500	1000	2000	4000	8000
100, 125 1v	16	13	8	6	3	5	3	4
100, 125 3v	16	14	8	6	3	6	4	6
Tol +/-	6	3	2	2	2	2	2	2

Dimensions and weight

SDK

Dimension (Nominal dim.)	Measures (mm)		Weight (kg)
	ød	E	
100	98	45	0,6
125	123	64	0,6



Order key

Product

Supply air ceiling diffuser:	SDK	aaa	-b v
Dimension: 100, 125			
Air spread: -1v, -3v			

Accessories:	EXK	a	bbb
T = mounting frame, insert, rubber seal			
Dimension: 100, 125			

Specification text

QMC.2 SUPPLY AIR DIFFUSER
FOR CEILING MOUNTING

Supply air diffuser with 1-way/3-way air spread designed for areas with small airflows.

TDXX
Supplier: Swegon
Type: SDK + SDKT
Dim. / air spread: XXX-Xv X pcs.

We make every breath count.



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