

Description and application:

Ceiling diffusers are designed for gravity ventilation, low and medium pressure ventilation and air conditioning systems. They are mounted on rectangular and round ventilation ducts, plenum boxes and suspended ceilings. Thanks to its construction, viral outflow and high air induction diffusers provide rapid reduction of the temperature and air flow.

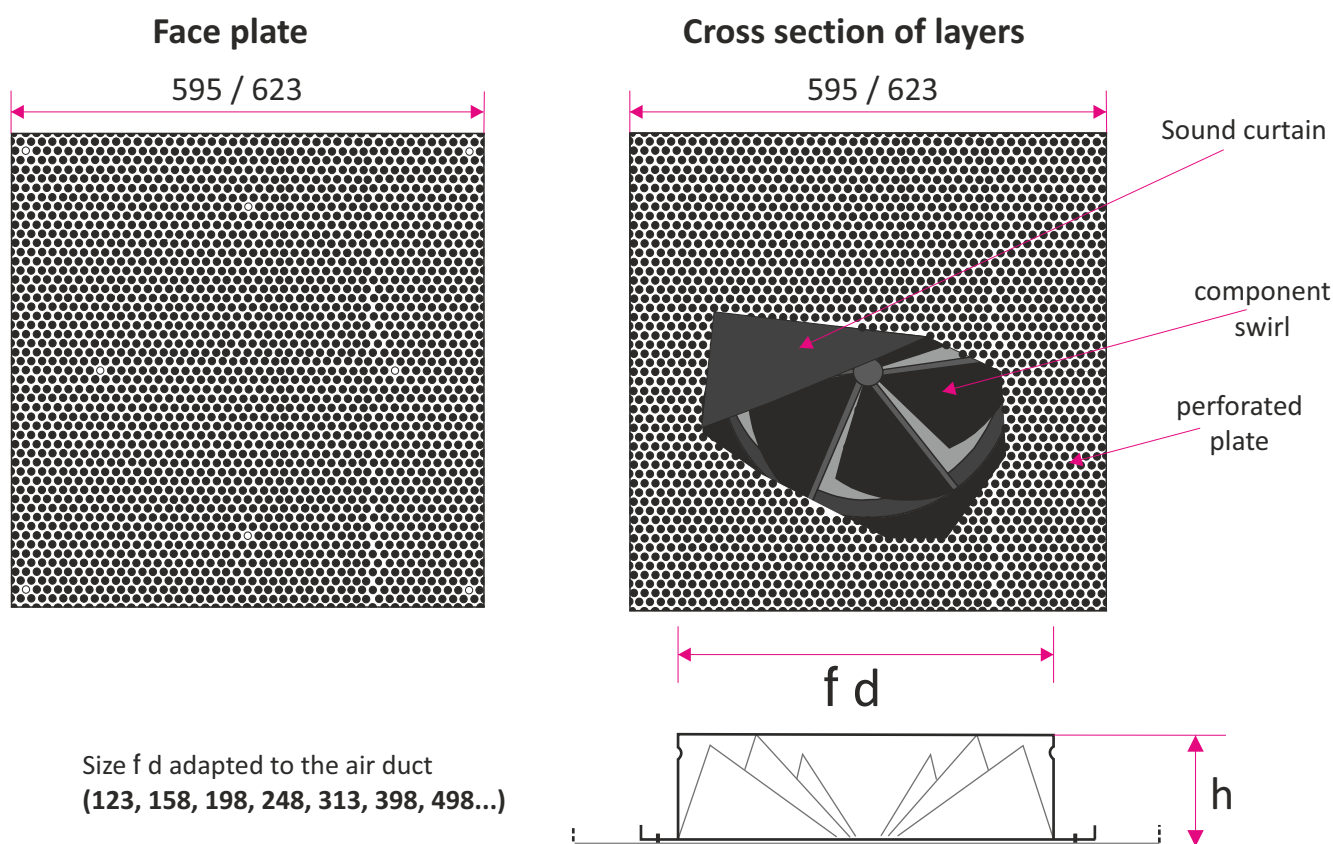
Diffusers have Hygienic Certificate

Material and workmanship:

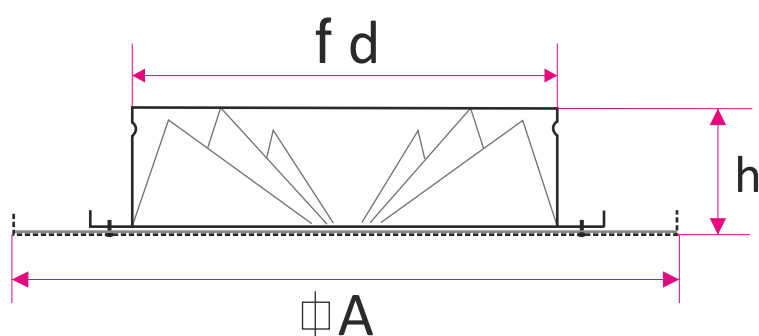
Diffusers have a perforated plate made of galvanized steel powder-coated standard in RAL colour 9010, adapted to the system suspended ceiling, veil soundproof on the inside and swirl element NWO with fixed adjustable blades, made of powder coated galvanized steel in RAL colour 9005. The manufacturer reserves the right to make technological changes.

Size:

The diffusers are manufactured on order. Diffuser dimension given by the customer.



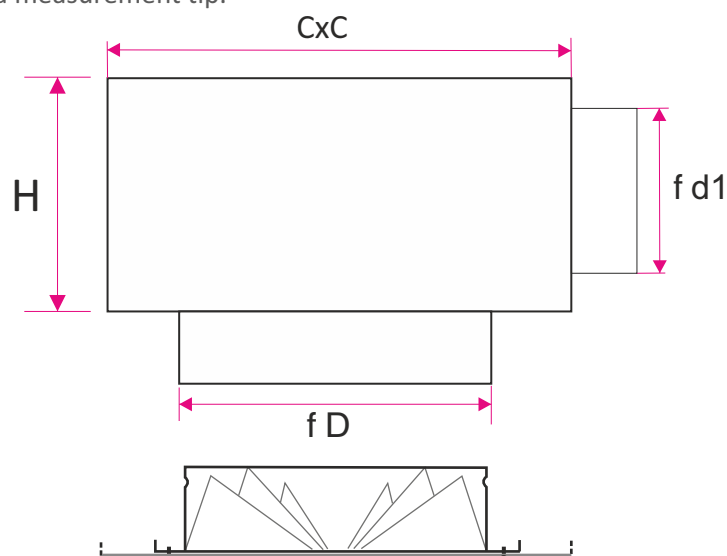
Size



| Size | f d | ⌀ A | h | A _{ef} [m ²] |
|------|-----|---------|-----|-----------------------------------|
| 125 | 123 | 595/623 | 100 | 0,004 |
| 160 | 158 | 595/623 | 100 | 0,006 |
| 200 | 198 | 595/623 | 100 | 0,009 |
| 250 | 248 | 595/623 | 100 | 0,015 |
| 315 | 313 | 595/623 | 100 | 0,027 |
| 400 | 398 | 595/623 | 100 | 0,036 |
| 500 | 498 | 595/623 | 100 | 0,045 |

Accessories- plenum box

Plenum box is made of galvanized steel. On request it can be equipped with a damper control onto the connected spigot. The plenum box is isolated inside with rubber (acoustic) or outside with mineral wool (thermal). The plenum box can also include a measurement tip.

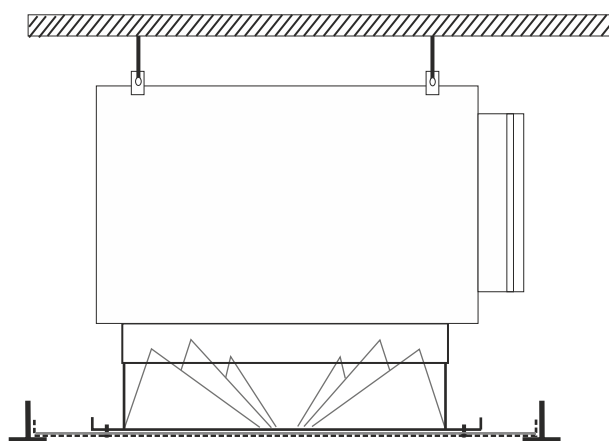


| Size | CxC | H | f d1 | f D |
|------|-----|-----|------|-----|
| 125 | 185 | 156 | 98 | 125 |
| 160 | 220 | 180 | 123 | 160 |
| 200 | 260 | 215 | 158 | 200 |
| 250 | 310 | 255 | 198 | 250 |
| 315 | 375 | 305 | 248 | 315 |
| 400 | 460 | 361 | 313 | 400 |
| 500 | 560 | 380 | 313 | 500 |

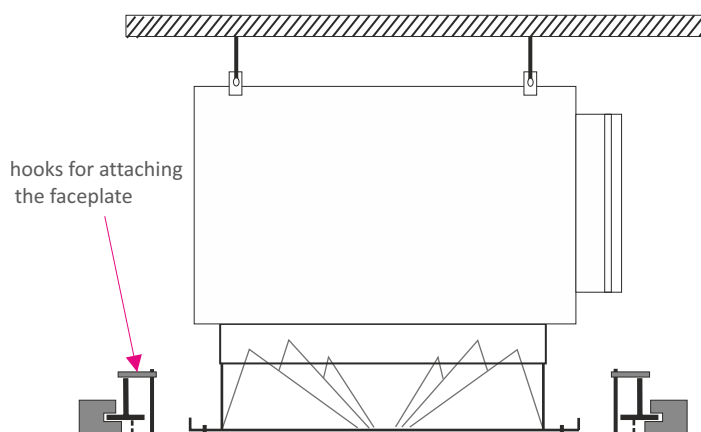
Methods of mounting

Diffusers normally used for place them on T-bar (W1). In the case of suspended ceilings with hidden T-bars, perforated plate is equipped with hooks for attaching the faceplate (W2). Diffusers without plenum box are connected to the duct with screws on the construction (W3).

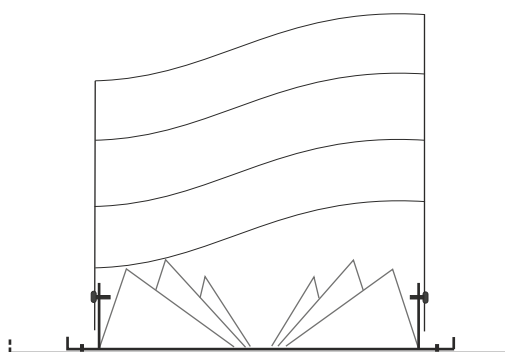
Variant W1



Variant W2

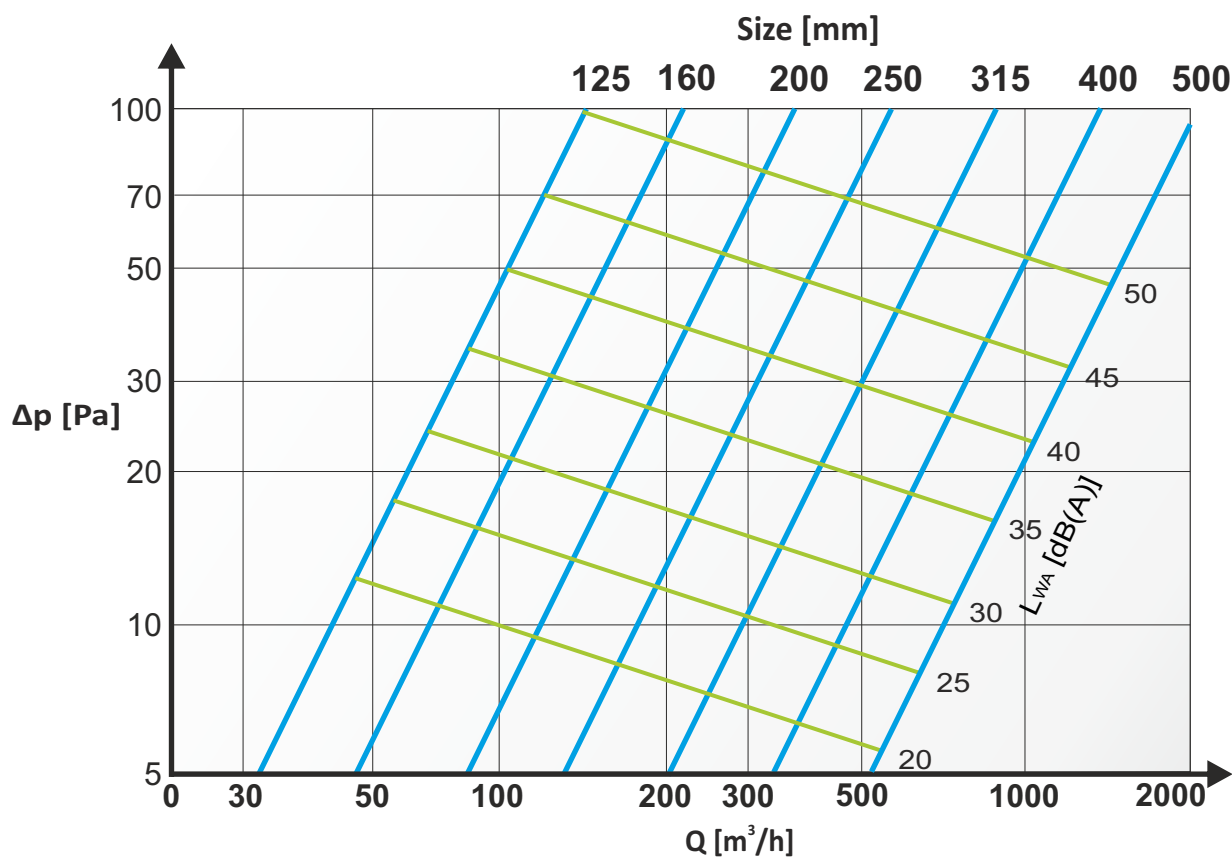


Variant W3



Technical data:

Pressure drop (Δp) and acoustic power (L_{WA}) depending on the air volume flow (Q) and the type of diffuser.

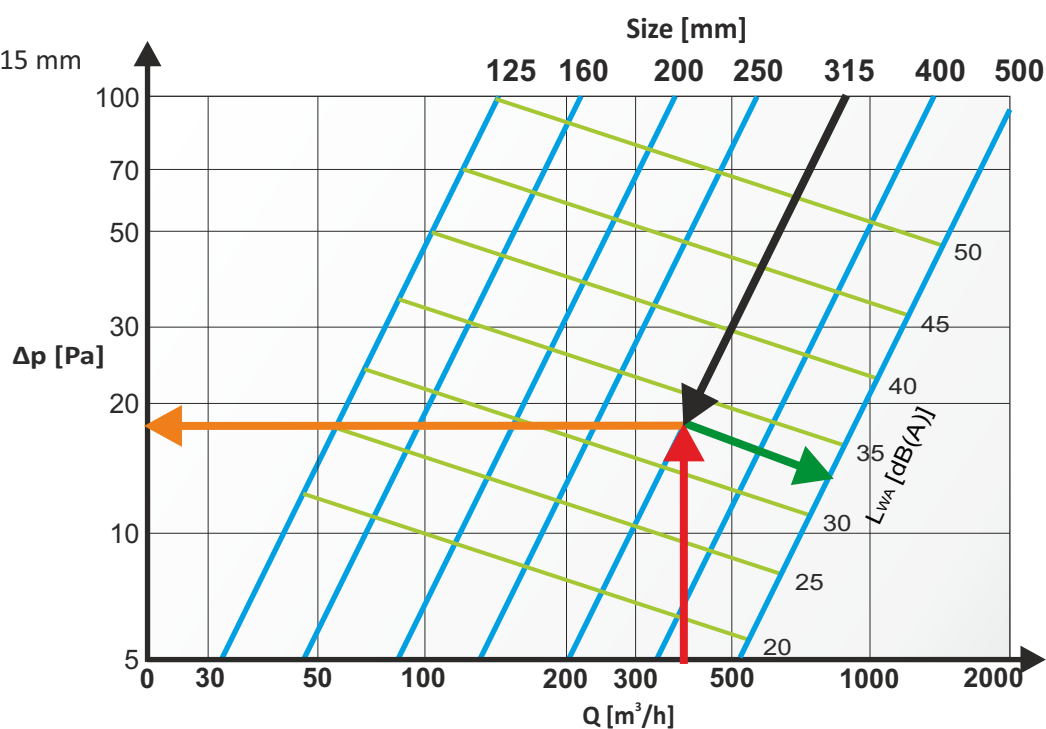


EXAMPLE

- air volume flow $Q=400$ m³/h
- diameter of the diffuser $\hat{D}=315$ mm

Reading from the graph:

- pressure drop $\Delta p=18$ Pa
- acoustic power $L_{WA}<35$ dB



The method of placing an order

Please make orders according to the following formula:

NWE-1 / 'A' / 'd' / 'RAL' / 'M' / 'W' + 'SR' / 'I' / 'P' / 'K' / 'H'

| | |
|-------|---|
| 'A' | the size of the perforated plate 595x595, 623x623... |
| 'd' | the size of the element: 125, 160, 200, 250, 315, 400, 500 |
| 'RAL' | color of the perforated plate according to RAL palette (standard RAL9010*) |
| 'M' | material: ST - powder coated steel* |
| 'W' | mounting option: W1 - invisible assembly on the construction of a suspended ceiling W2 - invisible assembly in the construction of a suspended ceiling with additional hooks to point to the faceplate W3 - invisible assembly directly to the ventilation duct |
| 'SR' | plenum box: SR-Bc - plenum box with side spigot connection SR-Gc - plenum box with top spigot connection |
| 'I' | isolation: none - plenum box without isolation * Iw - inside isolation (acoustic) Iz - outside isolation (thermal) |
| 'P' | adjustment damper at spigot connection: none - plenum box without damper* P - damper on spigot connection adjustable from the outside PP - damper on spigot connection adjustable from the inside |
| 'K' | diameter spigot connection in size mm |
| 'H' | the height of the plenum box * |

* - If you don't give the information will be used standard parameters.