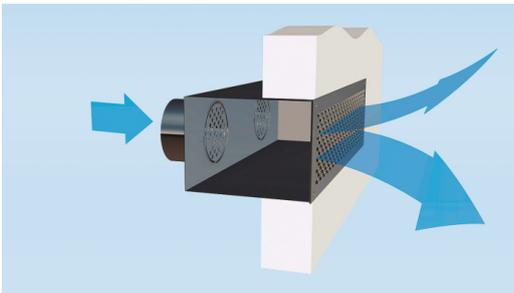


Technical Brochure

# LTG Air Diffusers

## Step Diffuser BLQ



Displacement air diffuser



## **Floor Level Air Diffuser Type BLQ**



*Floor Level Air Diffuser Type BLQ*

### **Application**

The floor level air diffuser type BLQ has been designed specifically for installation in raised false floors.

BLQ is suitable for air supply from below a glazed façade, and can also be used, in case of low cooling loads or in combination with static cooling surfaces, for introducing necessary volume of conditioned fresh air to meet hygiene requirements.

### **Function**

The diffuser can be connected in conjunction with a rectangular aperture in a false floor. Air volume balancing is achieved via throttling segments arranged in the bottom plate of the air distribution box. The supply air is introduced into the room at low velocity through a perforated panel.

The diffuser's front plate can easily be removed from the air distribution box and reinstalled without the need for any auxiliary tools, e.g. for cleaning or air volume balancing.

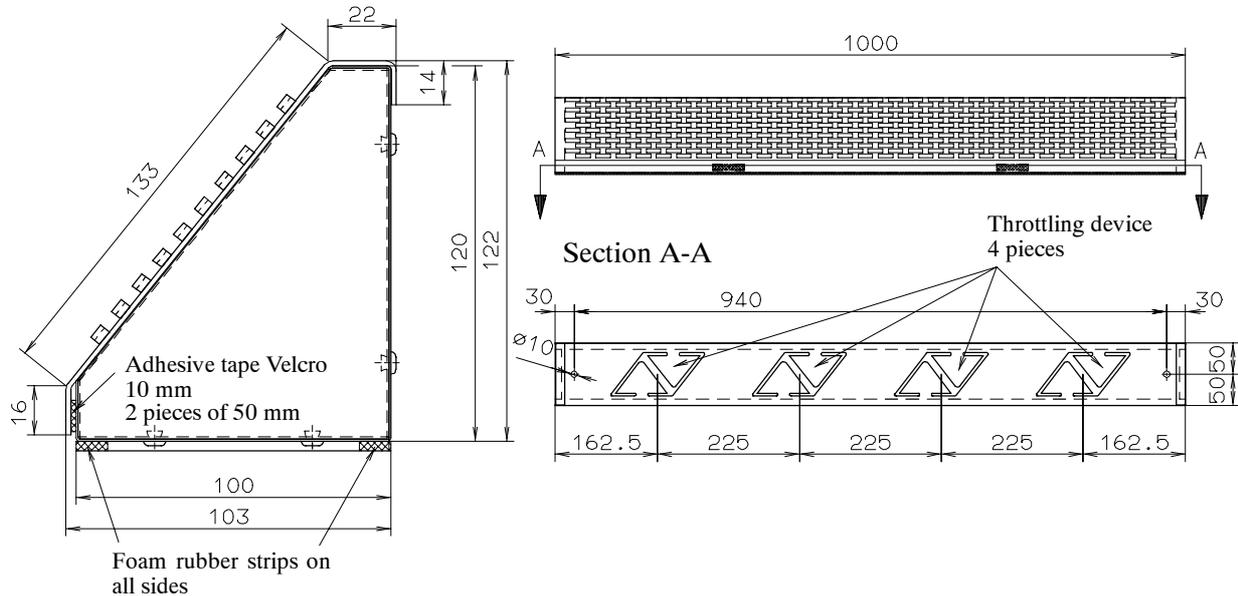
This diffuser type has also proven highly successful integrated beneath the steps and seats in theatres and other types of auditorium.

### **Indoor air flow / Comfort limits**

As a result of the perforated front face, the supply air is spread evenly.

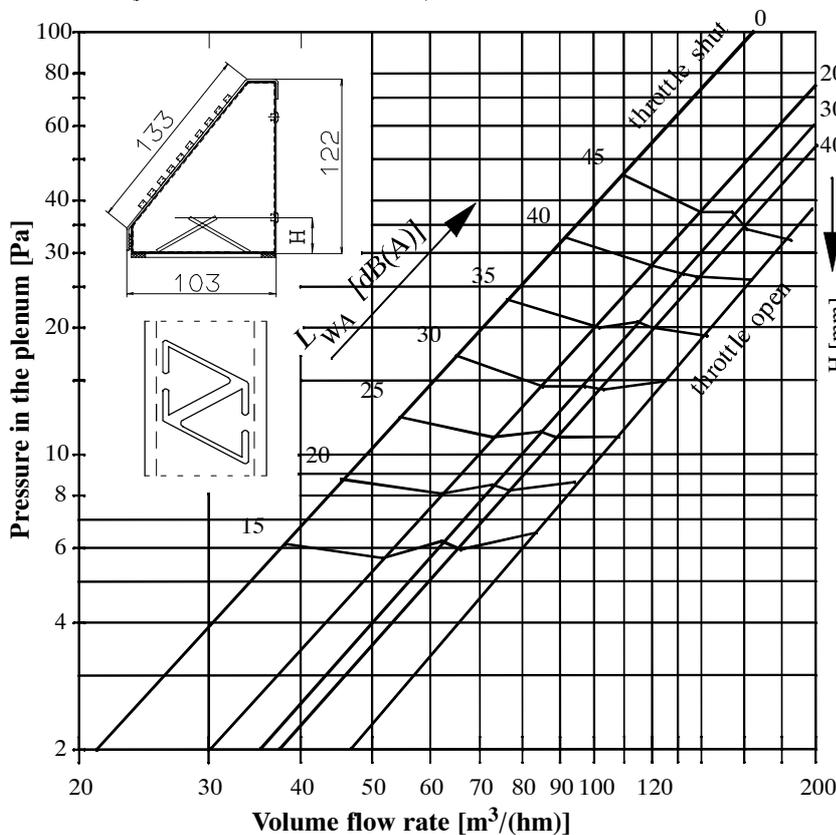
In the zone close to the diffuser a turbulent mixed airflow ensures rapid reduction of air speed and quick heating of the air jets. Low-turbulence displacement air flow is then formed within about one meter from the diffuser that directs the supply air into the room along the floor where it rises over load areas (occupants, appliances etc) and thus feeds fresh air while removing thermal and pollution loads from occupied spaces in a precise and comfortable manner.

## Floor Level Air Diffuser Type BLQ



### Acoustic power / Pressure loss

BLQ 1000 with throttling device  
 (false bottom cut: 900 x 80 mm)



### Design

Casing of galvanized sheet steel, front plate with concealed perforation, powder coated similar to RAL 9010.

### Dimensions

Height above floor: 122 mm

Outlet depth: 103 mm

Outlet length:  
 750, 1000, 1250, 1500, 1750 mm

Standard dimensions:  
 see dimensional sketch  
 (outlet length 1000 mm)

cutout in the false bottom : rectangular

$$b_{\max} = 80 \text{ [mm]}$$

$$l_{\max} = 900 \text{ [mm]}$$

(special dimensions on request)

### Technical features

For acoustic power level and pressure loss refer to the diagram on the left.

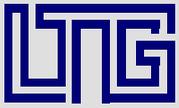
As a result of the wide open surface that remains almost invisible due to the concealed perforation, the strip-type diffuser has a low acoustic power level.

## Specification and Schedule of Prices

### Floor Level Air Diffuser BLQ

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Qty.	Description	Unit price in €	Total price in €
	<p>Strip-type diffuser for installation in bases and connection to hollow space or compressed floors, for creation of a virtually turbulence-free displacement air flow with excellent reduction of temperature difference and great jet penetration depth.</p> <p><u>Diffuser consisting of:</u></p> <ul style="list-style-type: none"> <li>- Casing of galvanized sheet steel, front side with concealed bores. Powder coated acc. to RAL 9010.</li> </ul> <p>Air intake from below through hollow space floor, pressure balancing through adjustable throttle element integrated in the diffuser. Diffuser plate fastened through adhesive tape, thus easy and quick removal whenever required.</p> <p><u>Technical Data</u></p> <p>Volume flow rate of supply air: 50-100 m<sup>3</sup>/hm            Height above floor: 122 mm            Diffuser depth: 103 mm            Temperature difference between ambient air and supply air: 1-6 K            Sound power level: ≤ 35 dB(A)</p> <p>Diffuser length (standard):</p> <ul style="list-style-type: none"> <li>o 750 mm</li> <li>o 1000 mm</li> <li>o 1250 mm</li> <li>o 1500 mm</li> <li>o 1750 mm</li> </ul> <p><b>Manufacturer: LTG Aktiengesellschaft</b>  <b>Series: BLQ</b></p> <p><u>Special Versions /Accessories</u> (on request, additional charge):</p> <ul style="list-style-type: none"> <li>o Special color: RAL _____</li> </ul>		



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