

Gebrüder Trox GmbH

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Product Information Ship air diffusers SFD series

PI/2/4.3/EN/1



Description

Ship air diffusers are suitable for installation in ship cabins. They ensure good levels of ventilation and thermal comfort, and can be used in rooms with low ceilings. On flush ceiling installation the front diffuser can be adjusted to the ceiling level using a sliding spigot.

The units are available for 1- and 2-duct systems and suitable for heating and/or cooling. Pre-regulation to the required volume flow rate to suit the duct pressure can be performed easily on site. Adjustment to suit individual comfort requirements can be made by hand.

Construction

The front diffuser comprises the nozzle-shaped discharge ring with rear-mounted collar, the integrated swirl vane as well as the front slotted cover plate.

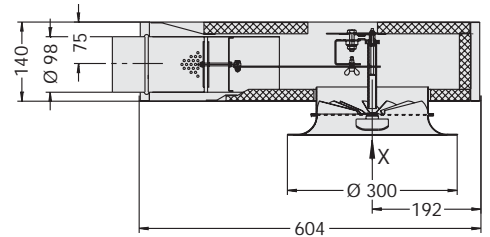
The front diffuser can be fitted later from below using a central fixing bolt. It is installed in a plenum box that has a sound-absorbing internal lining.

To change the volume flow rate (1-duct system) or the portion of warm or cold air (2-duct system) by hand, an adjusting knob is fitted in the middle of the front diffuser.

Ship air diffusers can be used for constant and variable volume flow rates. In the case of constant volumetric flow, the adjustment mechanism in the plenum box is not installed.

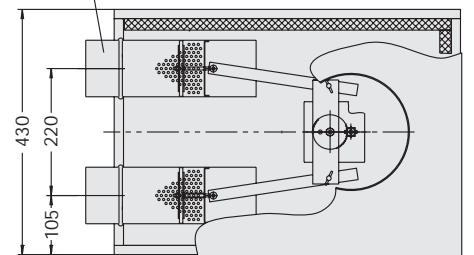
Dimensions

Type SFD-2-V

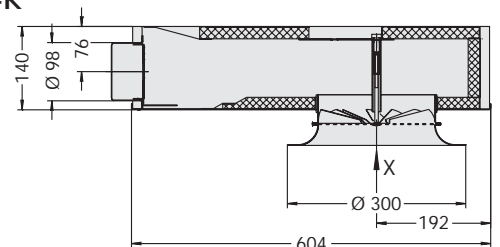


Not for type SFD-1-VI

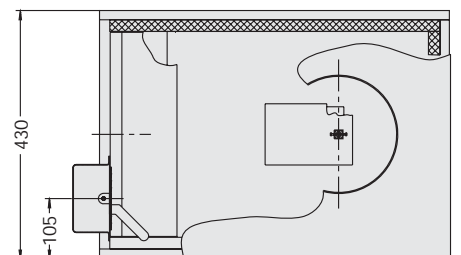
View X (depiction without diffuser)



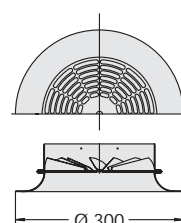
Type SFD-1-K



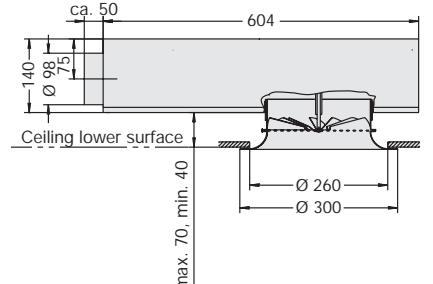
View X (depiction without diffuser)



Front diffuser



Installation



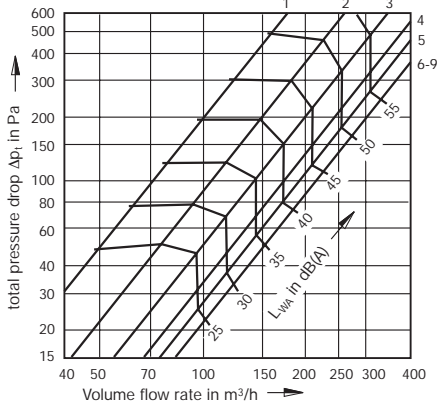
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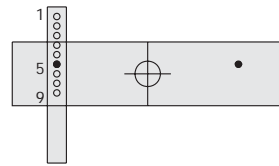
PI/2/4.3/EN/1

1 Sound power level and pressure drop Type SFD-1



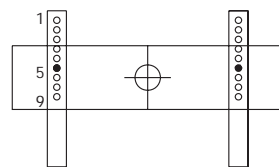
for diagram 1: 1-duct system

Adjustment lever in the plenum box:
Max. open

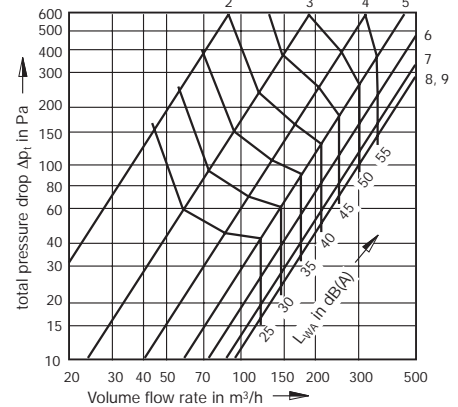


for diagram 2: 2-duct system

Adjustment lever in the plenum box:
Both ducts 50% open



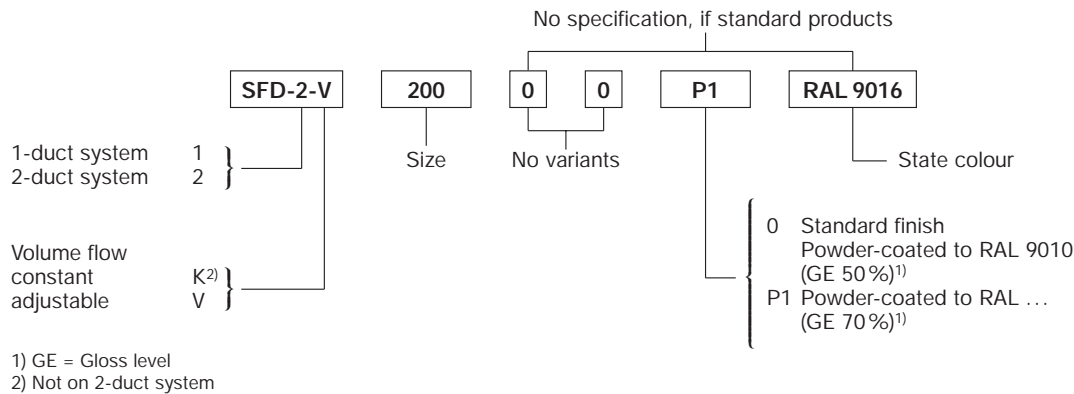
2 Sound power level and pressure drop Type SFD-2-V



Nomenclature

\dot{V} in m³/h: Volume flow rate per diffuser
 L_{WA} in dB(A): A-classified sound power level
 Δp_t in Pa: Total pressure drop

Order Code



Material

The front diffuser is made of rolled galvanised sheet steel, the nozzle-shaped moulded discharge ring is made of aluminium. The visible surfaces are pre-treated and powder-coated in pure white (RAL 9010), or on request in another colour on the RAL colour scale.

The plenum box is also made of rolled galvanised sheet steel, the internal lining is made of 20 mm thick mineral wool with glass fibre mat laminate to one side, approved by See-Berufsgenossenschaft Hamburg (a German Maritime authority) and IMO.

Order example

Manufacture: TROX
Type: SFD-2-V/200/P1/RAL 9016



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