

Connection
Size
Total amount

400
4

Vertical spigot

ZAŁ. NR 4

Input Data

Strategy: General

Ceiling effect

No

Discharge angle heating mode

45

Volume flow q_v

1 600 m³/h

Distance a

6,0 m

Distance x

1,0 m

Distance h_1

4,6 m

Supply air to room air temperature
difference $\Delta t_{SUP,c}$

-2 K

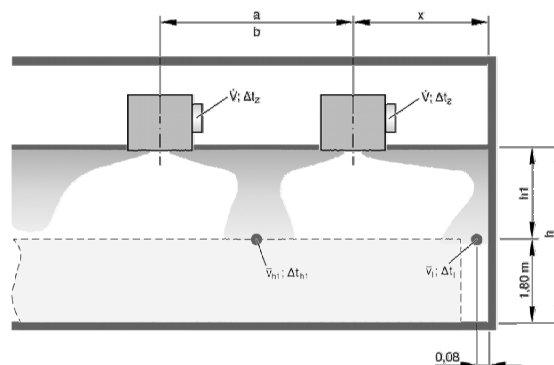
Supply air to room air temperature
difference $\Delta t_{SUP,h}$

2 K

Room temperature $t_{r,h}$

20,0 °C

Schematic side view



Results

Distance $(h_1 + x)$ I

5,6 m

Effective air velocity v_{eff}

3,53 m/s

Throw distance l_s

20,9 m

Velocity at h_1 v_{h1}

0,05 m/s

Temperature difference at h_1 Δt_{h1}

-0,12 K

Velocity at I v_l

0,32 m/s

Temperature difference at I Δt_l

-0,16 K

Velocity at I v_{l_multi}

0,25 m/s

Effective air velocity v_{eff_heat}

4,71 m/s

Penetration depth $h_{1,max}$

6,5 m

Thermal output – cooling Φ_c

-1 071 W

Thermal output – heating Φ_h

1 071 W

Acoustic results

	Δp_t [Pa]	LWA [dB(A)]	63Hz [dB]	125Hz [dB]	250Hz [dB]	500Hz [dB]	1kHz [dB]	2kHz [dB]	4kHz [dB]	8kHz [dB]	LWNC [dB]	LWNR [dB]
General	28	49	49	47	51	50	41	38	22	15	46	46

Description

Ceiling diffusers with circular diffuser front frame, for comfort and industrial zones. For supply air only. Diffuser face with adjustable air control blades for air discharge from horizontal (0°) to vertical (90°) For freely suspended installation and for suspended ceilings. Ready-to-install component which consists of the diffuser face with diffuser front frame and adjustable air control blades, a plenum box with equalising element, side entry or top entry spigot, and suspension lugs. Spigot suitable for ducts to EN 1506 or EN 13180. Sound power level of the air-regenerated noise measured according to EN ISO 5135.