

MULTI-DIRECTIONAL GRILLES

Rev.02
26-05-2015



GMC MDG-008 PRODUCT SPECIFICATIONS:

- Standard Material: Aluminum profile.
- Provides an effective air dispersion with a rational air direction that formed by differently (4-ways) positioned blades.
- Has two models: Fixed-Bladed (MDG-108) and Adjustable-Bladed (MDG-208).
- Usable for places up to 3,8m. height.
- Air flow can be adjusted manually or by a servomotor.
- Standard frame: Grilles with 22mm or 32mm.
- According to 40° , 60° , 75° , 90° blade angles, maximum effect range is 1m to 20m.
- Mounted with 4 mm screws on frame. Optional: Clips or Plate-spring applications.
- Eloxal, anodizing or electrostatic powder coating with the colour from RAL catalogue.



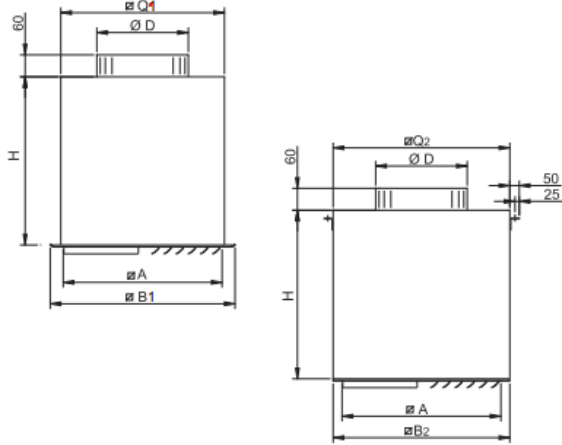
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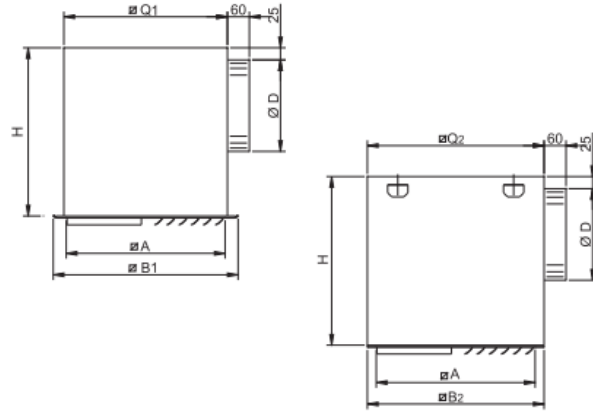


TECHNICAL DETAILS

1) Overhead Access



2) Lateral Access

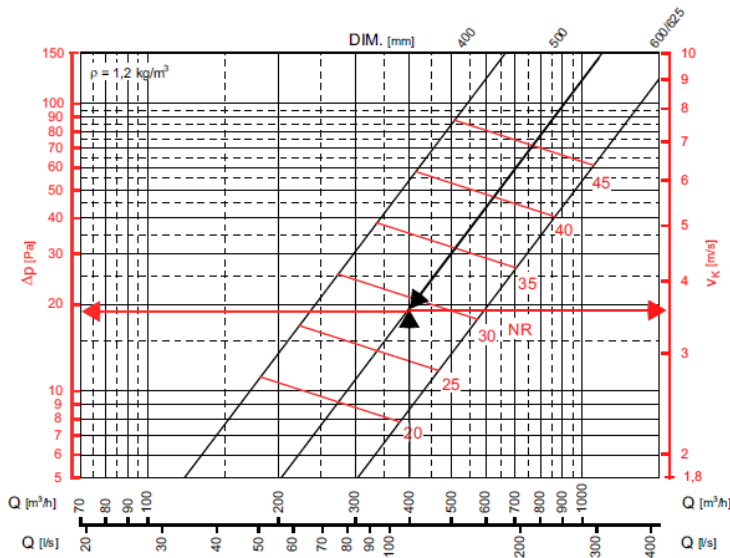


Selection Tables

Standard size ØA (mm)	A	D	H	Q1-Q2	B1-B2	Air volume (m³/h)
425	425	248	600	440-469	489-469	540-1400
600	600	368	650	615-644	664-644	1060-2880
775	775	498	700	790-819	839-819	1440-5040
1050	1050	648	750	1065-1094	1114-1094	2160-5760

DATA DIAGRAMS

MDG-008, PRESSURE DROP AND NOISE LEVELS



- Q [m³/h] supply air flow rate
- DIM. [mm] diffuser dimension
- v_k [m/s] velocity relating to the effective outlet area S
- Δp [Pa] total pressure loss
- NR noise rating (ISO standard, in relation to 10-12 W) taking no account of the attenuation of the room

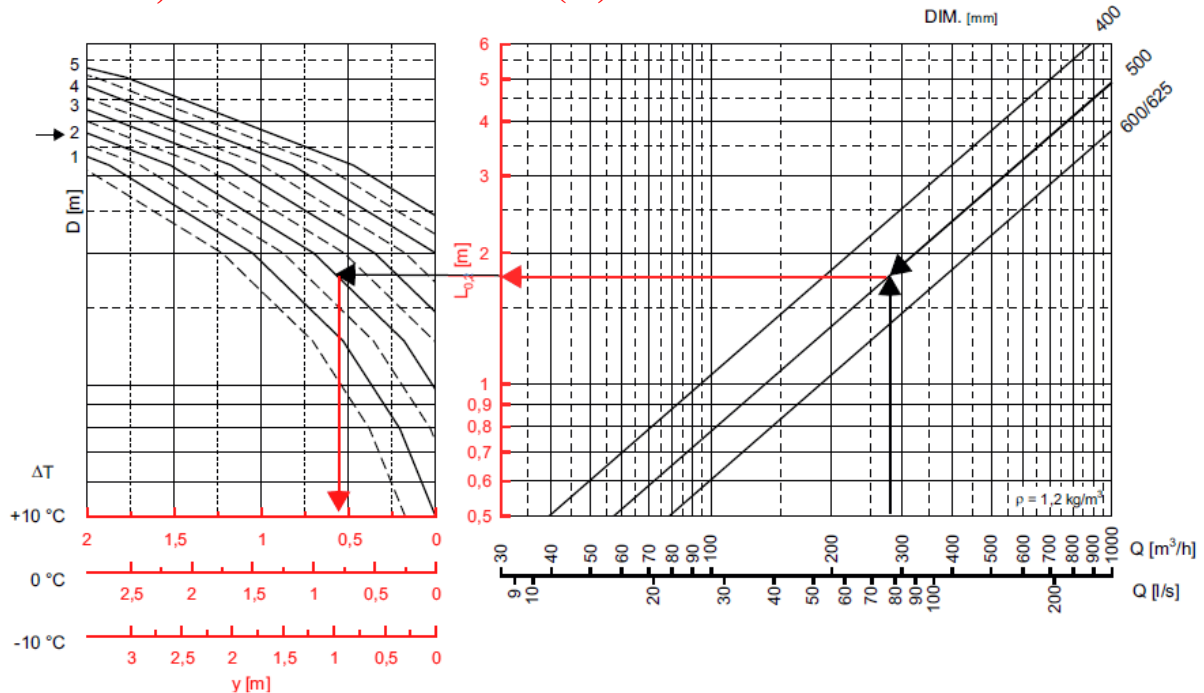


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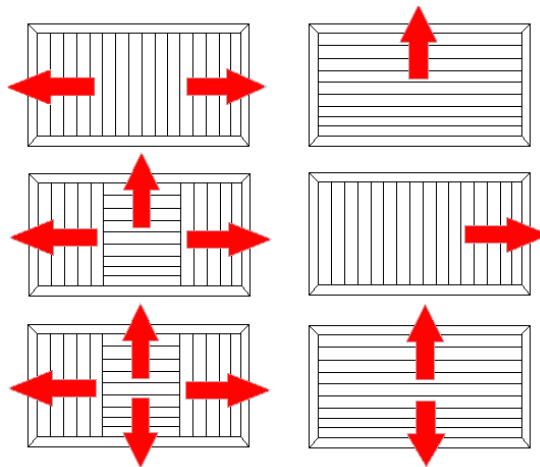


MDG-008, THROW DISTANCES (m)



- Q [m³/h] o [l/s] supply air flow rate
- DIM. [mm] diffuser dimensions
- v_m [m/s] average velocity of the throw at distance L
- L [m] diffusion radius (= x + y)
- x [m] horizontal dimension of the throw
- y [m] vertical dimension of the throw
- L_{0,2} [m] throw with terminal velocity of 0,2 m/s
- D [m] distance between two diffusers
- ΔT [°C] difference between supply air temperature and ambient temperature

MDG-008, AIR FLOW SCHEMATIC



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ORDER PARAMETERS

MDG-008	22	000	OD9010	SM	N 400X300
MDG-108: Fixed Flap MDG-208: Adjustable Flap 22: Frame=22mm 32: Frame=32mm					N: Neck Size F: Frame Size 00: No Mounting BF: Blind Frame SM: Screw Mounting CM: Clips Mounting 00: No coating EX: Eloxal Coating OD----: Oven Drying Coating
000: Without Damper					

