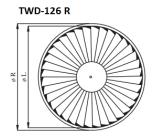
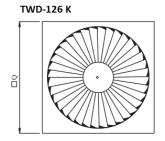


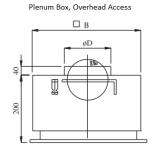
GMC TWD-026 PRODUCT SPECIFICATIONS:

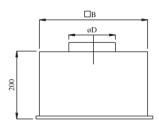
- Standard Material: 1mm DKP sheet. Optional: Aluminum or stainless steel sheets.
- Used for faster air diffusion in wide indoor areas. Usable for supply and return air ducts.
- Diffusion of fresh air occurs faster than any other diffusers, because of vortex-type air flow.
- Suitable for applications between 2,6 to 4 meters height.
- Has two models: Standard model(TWD-126), Improved model (TWD-226).
- Electrostatic powder coating with the color from RAL catalogue.

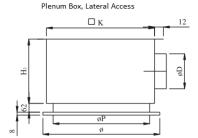
TECHNICAL DETAILS

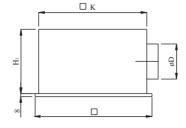












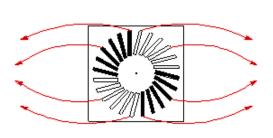


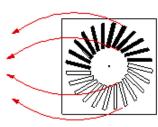


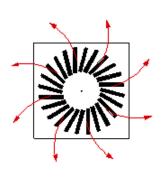


TWD-126 STANDARD SELECTION TABLE

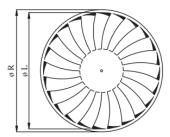
Standard size	Effective Aream ²	В	D	L	Q	R	H ₂	К	ØP	(Vmin-Vmax) Air volume (m∜h)
300	0,009	280	158	250	298	300	250	290	278	145-200
400							295	372		180-400
500	0,025	462	198	450	498	500	295	476	460	215-520
600								567		290-600
625	0,030	559	248	538	623	623	345	567	557	290-600



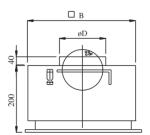




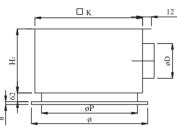
TWD-226 R



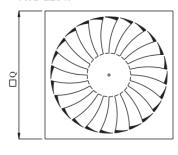
Plenum Box, Overhead Access



Plenum Box, Lateral Access



TWD-226 K



□в 200

□к







TWD-226 STANDARD SELECTION TABLE

Standard size	Effective Aream ^a	В	D	L	Q	R	Hg	К	ØP	(Vmin-Vmax) Air volume (m³/h)
300	0,011	280	158	254	298	300	250	290	278	108-360
400		364								252-540
500	0,028	462	198	440	498	500	295	476	460	252-648
600										360-900
625	0,040	559	248	530	623	623	345	567	557	360-900





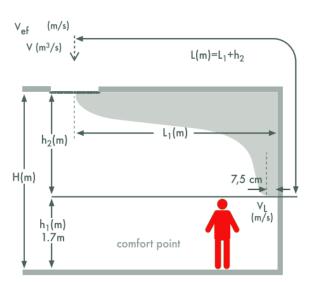


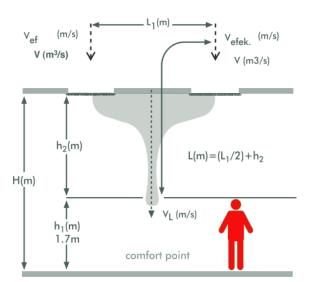






SELECTION TERMS





L1	The distance between the diffusers or between the diffuser and the wall (m)	Δt _L	The temperature difference between the air access to the comfort point and the temperature of the co
h1	Comfort point height (m)	L	Throw distance (m)
h ₂	The distance between the diffuser and the comfort point (m)	V	Mass air flow (m³/h)
V_{ef}	Effective comfort point (m/s)	Н	Ambient height (m)
VL	At the comfort point (m)	S	Sound power level dB(A)
VL	At the comfort point (m)		Sound power level dB(A)

In order to get "Coanda Effect" the effective blow out speed (Vefek.) must at least be 2 m/s. To provide the comfort conditions the selection is done considering that sound level should not exceed 40 dB(A). The average upper limit of the comfort point (h1) is calculated as 1.70 m above the ground. The air throw distance are selected from the table according to the diffuser size and mass air flow considering that the air speed at this level must be (VL) 0,25 ve 0,10 m/s

Note: The values in the table are given for mounting diffuser surface to the same level with the ceiling and for different locations the throw distance to be multiplied by 0,7.

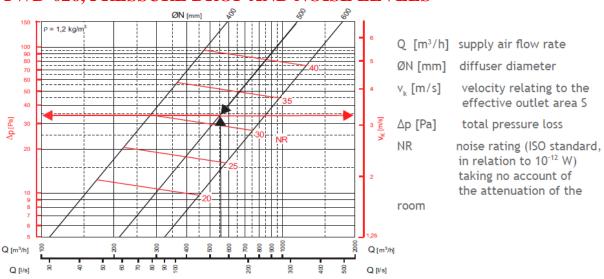


fort point (°C)

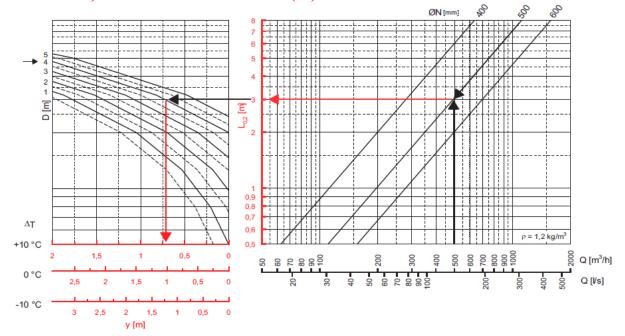




TWD-026, PRESSURE DROP AND NOISE LEVELS



TWD-026, THROW DISTANCES (m)



Q $[m^3/h]$ o [l/s]supply air flow rate

ØN [mm] nominal diameter of the diffuser

 $v_m [m/s]$ average velocity of the throw at distance L

L [m] diffusion radius (= x + y)

horizontal dimension of the throw x [m] vertical dimension of the throw y [m]

L_{0,2} [m] throw with terminal velocity of 0.2 m/s

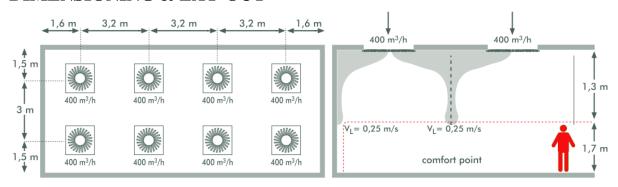
D [m] distance between two diffusers

 ΔT [°C] difference between supply air temperature and ambient temperature



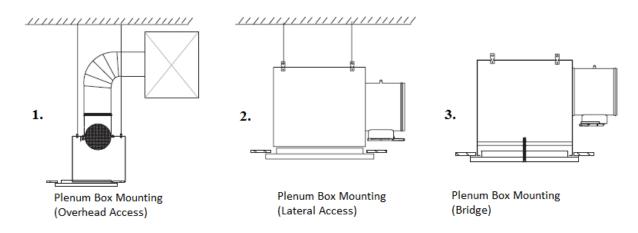


DIMENSIONING & LAY-OUT



MOUNTING DETAILS

- 1. Plenum Box Mounting (Overhead access)
- 2. Plenum Box Mounting (Lateral access)
- 3. Support Beam Mounting



ORDER PARAMETERS

