



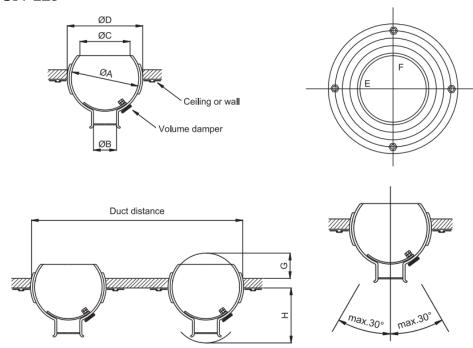


#### **GMC JN-025 PRODUCT SPECIFICATIONS:**

- Adjustable chasis and special frame are made of aluminum material by coating.
- Provides a long throw (up to 25 meters) at high velocities. Usable for pointwise heating/cooling in wide and high-ceiling rooms.
- Has a flow rate of 2000m<sup>3</sup>/h (max), suitable for up to 8m. heights.
- Air thrower ball can be adjusted with 30° angle.
- Has two main types: Single Walled Jet Nozzle (JN-125) and Double Walled Jet Nozzle (JN-225).
- On request, can be manufactured as "Multi-Nozzle Assembly" (as 4-6-8-... nozzles).
- Assembles with round duct connector, direct duct connection or flexible duct connector, by flanges, screws or rivets.
- Eloxal, anodizing or electrostatic powder coating with the color from RAL catalogue.

#### **TECHNICAL DETAILS**

#### JN-125







### JN-125, STANDARD DIMENSIONS (mm)

Standard size	øC	øB	øΑ	øD	øΕ	øF	øG
80	65	40	76	90	115	95	15
160	115		146	160	200	180	60
200	160	100	196	220	250	230	80
250			246				100
315	255	162	311	320	360	345	160
400	345			410	450	430	

#### JN-225, STANDARD DIMENSIONS (mm)

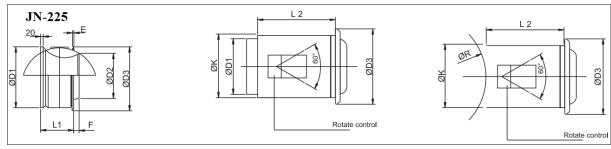
Standard size	øD1	øD2	øD3	øK	E	F	L1	L2
100	98	50	146	134	10	-2	78	80
125								90
160	158	82	200	188	11	10	106	110
200								140
250	248	136	302	287	16	23	159	170
315								220
400	398	230	467	441	24	47	223	260

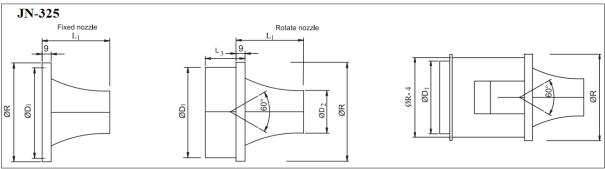
Standard size								
	*							
			*	*	*	*		
				*	*	*		
400					*	*		

### JN-325, STANDARD DIMENSIONS (mm)

Standard size			øD3				R
160	158	82	201	122	105	102	225
200			241				265
250	248	136	291	187	115	112	315
315	313						400
400	398	230	461	287	145	142	485

*	*	*	*			
	*	*	*			
		*	*			



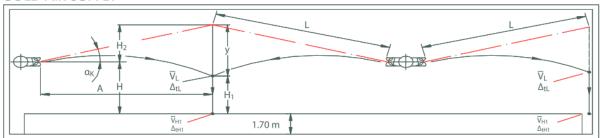




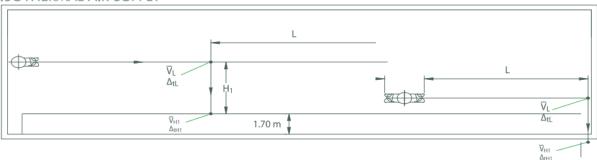


#### **DATA DIAGRAMS**

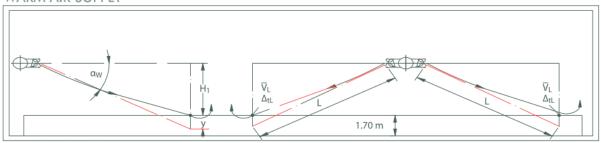
#### **COLD AIR SUPPLY**



#### ISOTHERMAL AIR SUPPLY



#### WARM AIR SUPPLY



: Height of collision point of two air streams

above occupied zone

: Height of collision point of two air streams above H2[m] mounting position of nozzles, for isothermal conditions

: Length of air stream for isothermal conditions : Max. Penetration depth of warm air stream L max[m] directed vertically downwards

: Discharge angle for cold air CX K[°] αw[°] : Discharge angle for warm air

V[m3/h] : Air flow

y[m] : Air stream deflection due to temperature difference from isothermal conditions.

V<sub>K</sub>[m/s] : Air velocity in duct

V<sub>L</sub>[m/s] : Mean air stream velocity

VH1[m/s] : The average air velocity at the entrance

to the living area

Δt<sub>L</sub>[K] : Temperature difference between centre of air stream at distance L, and room air.

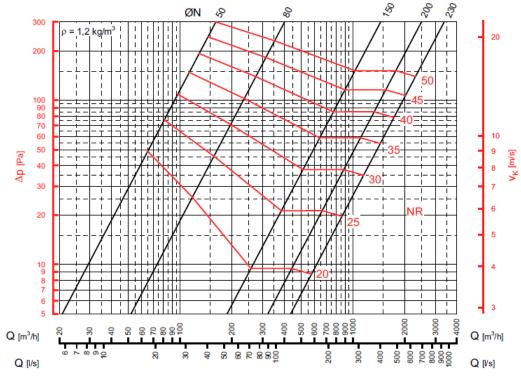
Δt<sub>H1</sub>[K] : Temperature difference between air in centre of

stream when entering occupied zone and room air





### JN-025, PRESSURE DROP AND NOISE LEVELS



Q  $[m^3/h]$  [l/s] supply air flow rate ØN [mm] nozzle diameter

 $v_k [m/s]$ velocity relating to the effective outlet area S

∆p [Pa]

NR noise rating (ISO standard, in relation to  $10^{-12} \, \mathrm{W}$ ) taking no account of the

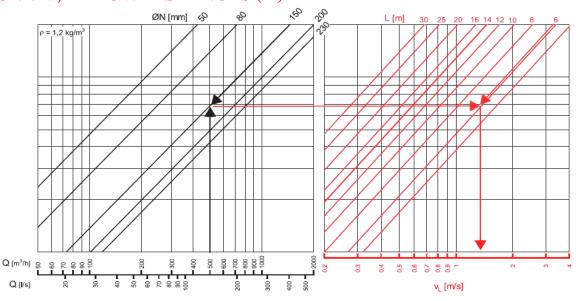
attenuation of the room

Correction of values  $\Delta p$  and NR with RR damper fully open  $\Delta p' = \Delta p \times 1,5$ , NR = NR + 6.

Correction of values  $\Delta p$  and NR with RF equalizing net grid applied  $\Delta p' = \Delta p \times 1, 2$ , NR = NR + 3.

Pressure loss and noise level do not vary with the inclination of the nozzle

### JN-025, THROW DISTANCES (m)

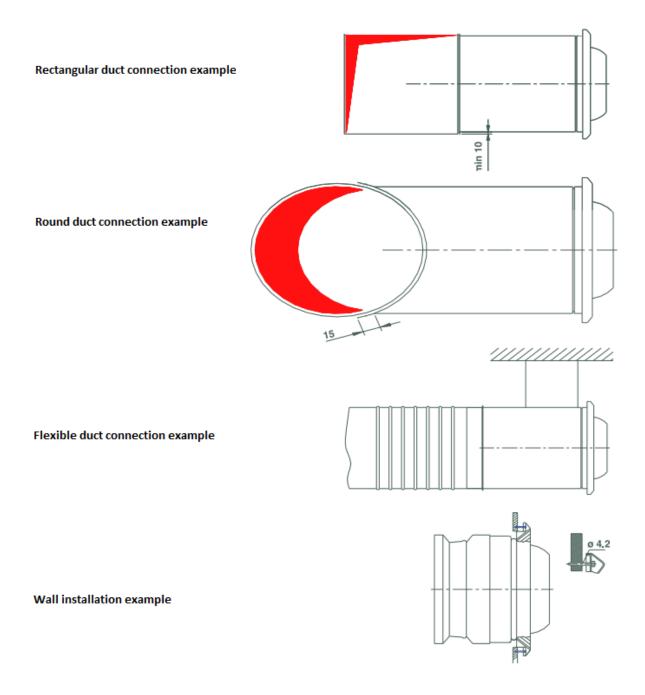






### **MOUNTING DETAILS**

Jet nozzles are suitable for mounting on rectangular or circular ducts. For both connection types, there is a circullar drilled flange appropriate to be fixed with screws or rivets.







#### **ORDER PARAMETERS:**

