

# KCD-Q



## Square diffuser

### Product description

Four-way square diffuser for variable or constant flow installations, KOOLAIR model **KCD-Q**, dimensions 595x595 mm, with variable ways (1 to 4). Made entirely of sheet steel with a central core that has the same design as the attached ceiling plate. Painted finish in RAL colour of choice. Incorporates plenum with connection made of galvanized steel sheet. Possibility of manufacturing with other dimensions. Recommended installation height between 2.5 and 4 m.

### Other models

**KCD-Q-I/R.** Four-way square diffuser with 2 or 3 ways, to integrate supply and extract air in the same plate. Perforated sheet metal central core.

**KCD-Q-I/R-PF.** Four-way square diffuser with 2 or 3 ways, to integrate supply and extract air in the same plate. Foldable perforated sheet metal central core with frame to hold filter.

**KCD-Q-FLASH.** Four-way square diffuser with 2 ways, with integrated luminaire in the central core.

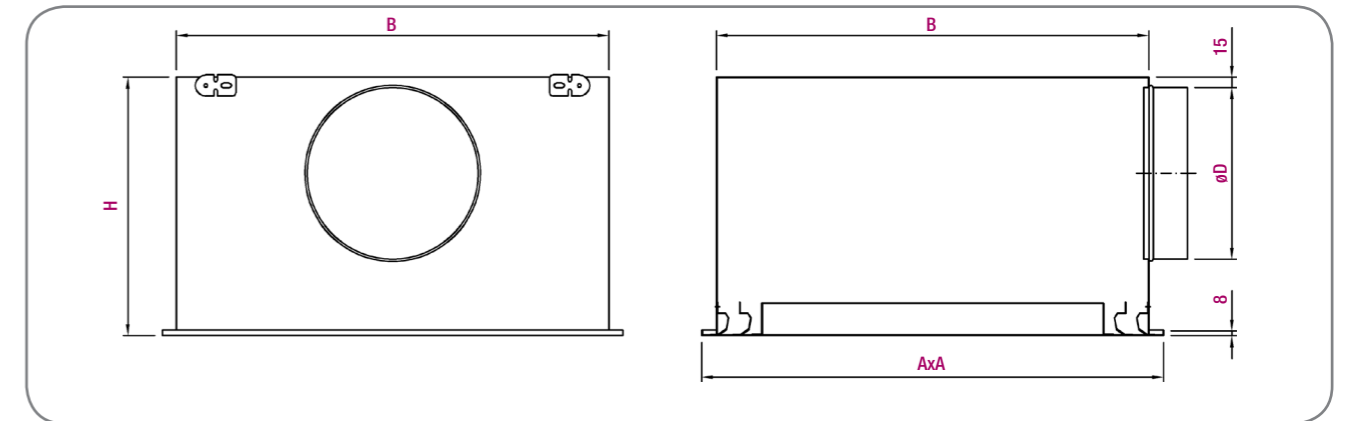
### Mounting

**PFL.** Side connection plenum box made in galvanised steel sheet.

**PFL-A.** Side connection plenum box internally insulated made in galvanised steel sheet.

*Note: For accesible volume control damper from the room please ask specifically on order.*

### General dimensions



Custom plenums available to suit reduced heights above false ceilings.

Nominal	A	B	ØD	H
600 x 600	595	566	249	375
675 x 675	670	631	249	375

Unit mm

### Selection table (600x600 mm)

N. of slots	Q (m³/h)	L <sub>wa</sub> [dB(A)]	ΔP <sub>t</sub> (Pa)	X (m)	V <sub>k</sub> (m/s)
1	247	24	9	2,0	3,1
	333	32	16	2,6	4,2
	449	40	28	3,6	5,7
2	346	24	6	2,3	2,8
	466	32	11	3,1	3,8
3	629	40	20	4,2	5,2
	422	24	6	2,5	2,7
	569	32	11	3,4	3,6
4	767	40	20	4,6	4,9
	485	24	4	2,0	2,6
	654	32	7	2,6	3,5
	882	40	13	3,6	4,7

#### LEGEND

Q (m³/h): Air flow.  
 L<sub>wa</sub> [dB(A)]: Sound power level.  
 ΔP<sub>t</sub> (Pa): Total pressure loss.  
 X (m): Throw for a maximum velocity of 0.25 m/s at the occupied zone  
 ΔT = 0 °C (isothermal conditions), installed at a height of 3m.  
 V<sub>k</sub> (m/s): Effective velocity.

