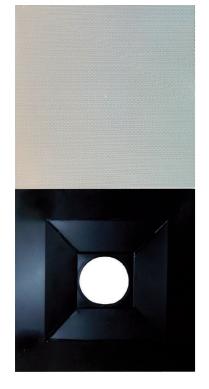
## 

# 56-FR





## Hidden square diffuser

## Product description

KOOLAIR square diffuser, model **56-FR-Q-PR**, nominal dimensions \_x\_ mm incorporated in 595x595 mm micro-perforated tile. Incorporates a set of internal directional vanes that can be manually configured to supply air in 1,2,3 or 4 directions either during commissioning or by the end user. Option to include plenum for lateral connection and regulating damper.

Available or adaptable to micro-perforated suspended ceiling tiles with a free area between 16% and 50%, covering a large part of the range of existing standard micro-perforated ceilings on the market.

Made entirely of sheet steel. Finished ceiling tile painted in RAL colour to be defined; interior diffuser in RAL9005 (black) to prevent it from being seen and guarantee discretion.

They achieve one of the design premises most sought after by architects and designers: to completely hide the components of the air conditioning installation. The air diffusion unit is integrated above the micro-perforated ceiling tiles (inside the false ceiling), giving total aesthetic uniformity to the space.

Recommended installation height between 2.4 and 3.5 m.

## Mounting

**PFL-RE.** Fixed plenum box without internal insulation, with manual damper accessible from false ceiling.

**PFL-A-RE.** Fixed plenum box with side connection internally insulated, with manual damper accessible from false ceiling.

Note: On request, top plenum available insulated/uninsulated (PFS-A-RE/PFS-RE).

#### Other models

**56-FR-I-PR-Q.** Square supply diff user incorporated on a 595x595 mm micro-perforated tile.

**56-FR-I-Q.** Square supply diff user ready to be integrated on a 595x595 mm micro-perforated tile.

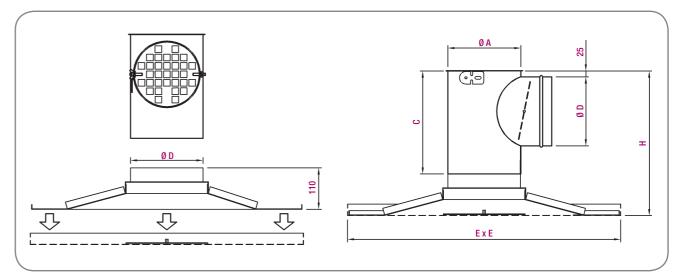
**56-FR-I-PR-Placa LxH.** Square supply diff user incorporated on a \_x\_ mm micro-perforated tile

**56-FR-R-PR-Q.** Square return diff user incorporated on a 595x595 mm micro-perforated tile.

**56-FR-R-Q.** Square return diff user ready to be integrated on a 595x595 mm micro-perforated tile.

**56-FR-R-PR-Placa LxH.** Square return diff user incorporated on a \_x\_ mm micro-perforated tile.

#### General dimensions



Custom plenums available to suit reduced heights above false ceilings.

	Model	А	С	Ø D	Н	ExE
	200	103	169	98	265	
	250	103	169	98	265	
	315	128	194	123	220	595x595
	400	163	229	158	325	
	500	203	269	198	365	
-	600	253	319	248	415	
1	625	253	319	248	415	625x625

Unit in mm

### Selection table

Size	Q (m³/h)	L <sub>wA</sub> [dB(A)]	ΔP <sub>t</sub> (Pa)	X (m)
	60	24	5	0,5
200	80	32	10	0,9
	110	40	18	1,0
	75	24	6	0,7
250	100	32	11	1,1
	135	40	20	1,3
	95	24	6	0,8
315	125	32	12	1,1
	170	40	22	1,4
	125	24	7	1,2
400	170	32	12	1,3
	230	40	23	1,6
	180	24	6	1,2
500	245	32	12	1,5
	330	40	22	1,9
	260	24	6	1,3
600 / 625	350	32	11	1,7
	475	40	21	2,0

Technical data for micro-perforated tile with 50% free area. Availability of other perforation designs. Consult the Technical Department.



#### **LEGEND**

Q (m³/h): Air flow.  $L_{wA}$  [dB(A)]: Sound power level.  $\Delta P_t$  (Pa): Total pressure loss. X (m): Throw for a maximum velocity of 0.25 m/s at the occupied zone  $\Delta T = -10$  °C (cold), installed at a height of 2.8 m.