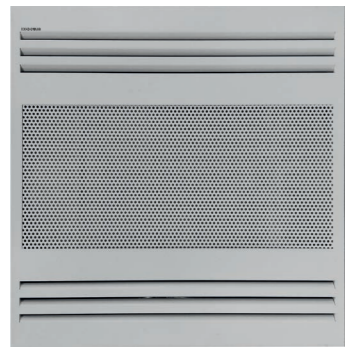


KCD-2W-IR



Square diffuser with two discharge directions for supply and return air

Product description

Square diffuser with supply and return branch connections integrated in the same unit. Air discharge in two directions. Designed for constant-volume or variable-volume installations, Koolair model **KCD-2W-I/R**, _x_ - 2 or 3-slot, for supply and return air.

Perforated sheet metal central core. Product equipped with two independent plenums for supply and return made of galvanised steel sheet, complete with regulating damper on branch connection. Filter holder integrated on return.

Made from extruded aluminium profiles. Recommended installation height is between 2.5 and 4m. Painted finish in RAL colour of choice. Option for return filter with filtration efficiency **-G2**, **-G3** or **-G4**.

Mounting

-PFL(R)/PFL. Lateral plenum branch connection on return and lateral branch on supply.
-PFL(R)/PFS. Lateral plenum branch connection on return and top branch connection on supply.

Other models

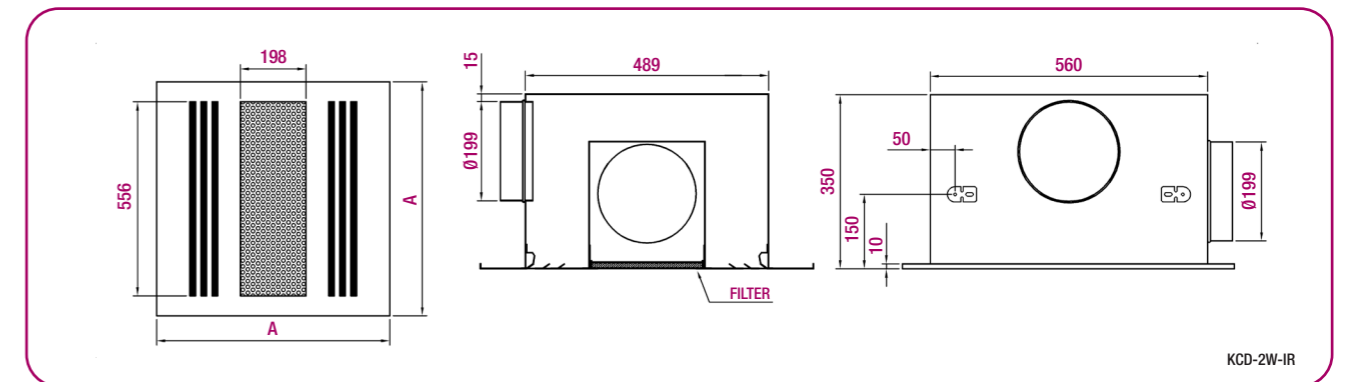
KCD-2W-I/R PF. Square diffuser with two discharge directions for supply and return air with folding central core and filter holder frame.

KCD-2W-I/R LxH. Square diffuser with two discharge directions for supply and return air with dimensions LxH.

Accessories

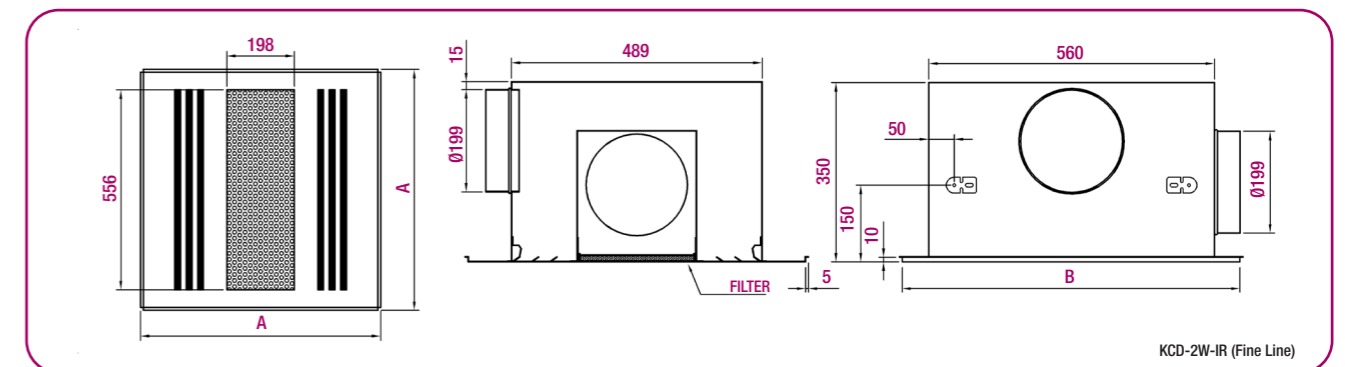
- A.** Insulated plenum box.
- RE.** With regulating damper accessible from false ceiling.
- G2.** Filtration efficiency G2.
- G3.** Filtration efficiency G3.
- G4.** Filtration efficiency G4.

General dimensions



DIFFUSER	A
600 x 600	594
675 x 675	670

Unit mm



DIFFUSER	A	B
600 x 600	594	584
675 x 675	670	660

Unit mm

Possibility of manufacturing diffuser plate to fit to a false ceiling tile with a specific design and plenum to fit the accessibility of the false ceiling.

Selection table

Size (slots)	Q (m³/h)	Supply				Return		
		L _{WA} [dB(A)]	ΔP (Pa)	X (m)	V _k (m/s)	L _{WA} [dB(A)]	ΔP (Pa)	V _k (m/s)
600 x 600 (2) / 675 x 675(2)	220	24	5	2,9	1,9	<20	7	1,2
	300	32	9	4,0	3,9	<20	9	1,7
	400	40	16	5,3	5,2	25	22	2,2
600 x 600 (3) / 675 x 675(3)	290	24	4	3,1	2,5	<20	12	1,6
	400	32	7	4,3	3,5	25	22	2,2
	520	40	12	5,6	4,5	32	37	2,9

LEGEND

Q (m³/h): Air flow.
 L_{WA} [dB(A)]: Sound power level.
 ΔP_t (Pa): Total pressure loss.
 V_k (m/s): Effective velocity.
 X (m): Throw for a maximum velocity of 0.25 m/s at the occupied zone, isothermal conditions, installed at a height of 3m.

Data measured for return is with diffuser with filter of efficiency G3. For other flow capacities, i.e. another number of ways, consult the Technical Department.