

DF-49-MT-3-I/R

Multinozzle Diffuser supply / return



DF-49-MT-3-I/R

Product description

KOOLAIR multi-nozzle diffuser, model **DF-49-MT-3-I/R**, with linear grille for supply and return integrated in plate, dimensions $_x_mm$. Incorporates 1 or 2 rows of nozzles individually adjustable in all directions up to a maximum of 30°, manufactured in ABS (VO) and finished in RAL 9010, 9005 or 9006. Includes linear grille without frame for return air with blades fixed at an angle of 0° or 45°. Plate made of sheet steel, finished in RAL colour of choice. Option to incorporate regulating damper on supply (-RFS06) or return (-O). Recommended installation height between 2.5 and 6 m.

Models

DF-49-MT-3-E-I/R. Long reach multi-nozzle diffuser set in a flat 1.5 mm thick plate for installation in plaster. Includes a linear return grille with blades at 0°.

DF-49-MT-3-SB-I/R. Long reach multi-nozzle diffuser without frame and a 6 mm thick plate. Includes a linear return grille with blades at 0°.

DF-49-MT-3-E-I/R-45. Long reach multi-nozzle diffuser set in a flat 1.5 mm thick plate for installation in plaster. Includes a linear return grille with blades at 45°.

DF-49-MT-3-SB-I/R-45. Long reach multi-nozzle diffuser without frame and a 6 mm thick plate. Includes a linear return grille with blades at 45°.

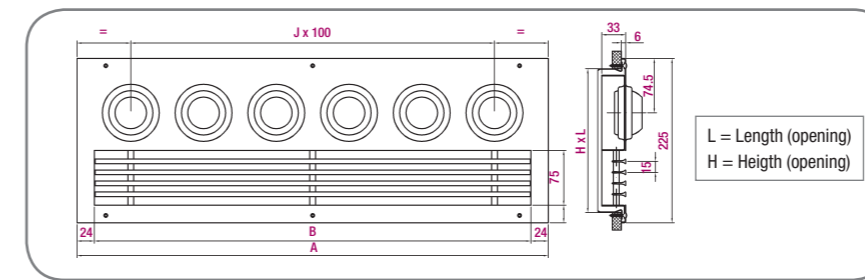
Mounting

T. Pre-drilled plate ready for fastening with screws.

PFS. Fixed front connection plenum for supply and/or return air, at 180° with respect to the air outlet. (-A. Interior insulated) Consult for design.

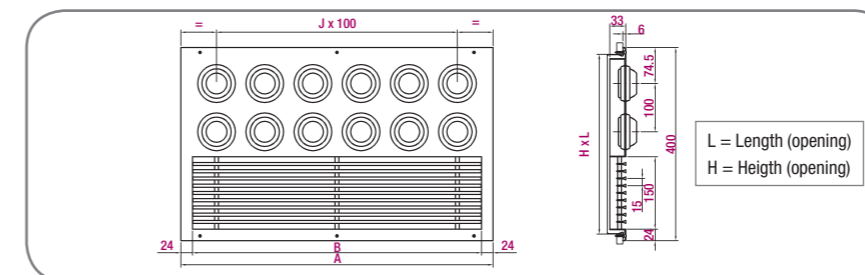
PFL. Fixed lateral connection plenum for supply and/or return air, at 180° with respect to the air outlet. (-A. Interior insulated) Consult for design.

General dimensions



Nozzles	L	H	A	B	J
3T	330	192	353	305	2
4T	430	192	453	405	3
5T	530	192	553	505	4
6T	630	192	653	605	5
7T	730	192	753	705	6
8T	830	192	853	805	7
9T	930	192	953	905	8
10T	1030	192	1053	1005	9

Unit mm



Nozzles	L	H	A	B	J
3T	330	367	353	305	2
4T	430	367	453	405	3
5T	530	367	553	505	4
6T	630	367	653	605	5
7T	730	367	753	705	6
8T	830	367	853	805	7
9T	930	367	953	905	8
10T	1030	367	1053	1005	9

Unit mm

Selection table

Size	Q (m³/h)	Supply					Return	
		L _{WA} [dB(A)]	ΔP _{st} (Pa)	X _{0,3}	X _{0,5}	X _{1,0}	L _{WA} [dB(A)]	ΔP _{st} (Pa)
330 x 192	150	24	71	12,1	7,2	3,6	23	7
	210	32	128	16,2	9,7	4,9	31	15
	280	40	232	21,8	13,1	6,6	39	26
530 x 192	230	24	60	14,4	8,6	4,3	22	6
	320	32	109	19,3	11,6	5,8	30	11
	420	40	196	26,0	15,6	7,8	37	19
630 x 192	270	24	56	15,2	9,1	4,6	22	6
	370	32	102	20,5	12,3	6,2	30	10
	500	40	186	27,7	16,6	8,3	38	19
830 x 192	350	24	51	16,8	10,1	5,0	23	5
	470	32	93	22,7	13,6	6,8	30	10
	630	40	169	>30	18,3	9,1	38	17
1030 x 192	420	24	48	18,1	10,9	5,4	21	4
	560	32	87	24,4	14,6	7,3	28	7
	760	40	157	>30	19,7	9,9	36	14
330 x 367	270	24	56	15,2	9,1	4,6	25	7
	370	32	102	20,5	12,3	6,2	33	13
	500	40	186	27,7	16,6	8,3	41	25
530 x 367	420	24	48	18,1	10,9	5,4	25	6
	560	32	87	24,4	14,6	7,3	33	11
	760	40	157	>30	19,7	9,9	41	21
630 x 367	490	24	45	19,3	11,6	5,8	24	5
	660	32	82	25,9	15,6	7,8	31	9
	890	40	148	>30	21,0	10,5	39	17
830 x 367	620	24	41	21,2	12,7	6,4	24	5
	840	32	75	28,6	17,2	8,6	32	9
	1130	40	135	>30	23,1	11,6	39	15
1030 x 367	750	24	38	22,9	13,7	6,9	24	4
	1010	32	69	>30	18,5	9,3	32	8
	1360	40	126	>30	24,9	12,5	39	14

LEGEND

Q (m³/h): Air flow.
 L_{WA} [dB(A)]: Sound power level.
 ΔP_{st} (Pa): Estatic pressure loss.
 X_{0,3}-X_{0,5}-X_{1,0} (m): Throw for terminal velocity of the air stream of 0.3, 0.5, and 1.0 m/s, respectively, in isothermal conditions (ΔT = 0° C).