



Multi-JET duct grille type JET-MC

Multinozzle diffuser for duct mounting on circular ducts. Available with 3 to 10 nozzles in 1 or 2 rows.

Brand

- Cairox

Application

- Multinozzle duct grille for ventilation, heating and cooling purposes in large spaces in hotels, shopping malls, theatres, etc. where long ranges of air must be diffused at low noise levels
- The shape of the nozzles allows them to be individually pointed in any direction in an angle of maximum 30°.

Material

- Front diffuser in steel plate finished RAL 9006 to match galvanized steel ductwork
- Aluminium nozzles

Colour

- Standard powder coated in RAL9006 (grey aluminium look)
- Plastic ring available in RAL9016 & 9005 upon request

Composition

- Profiled powder coated steel plate with curved shape to match duct diameter
- Diffusers with 1 row require a duct of Ø315 to Ø900, diffusers with 2 rows require a duct of Ø630 to Ø1400. Quantity of rows is mentioned in the diffuser type = #R
- 3 till 10 aluminium nozzles/row in comparable finish as the powder coated plate = #N, mentioned in the diffuser type
- Predrilled holes for direct duct mounting on the spiral duct

Mounting

- The diffuser can be mounted in a cut-out opening lateral to the circular duct and fixed by means of visible screws

Other available products

- Diffuser also available for rectangular duct mounting or wall mounting with mounting frame type **JET-MR + CCN**

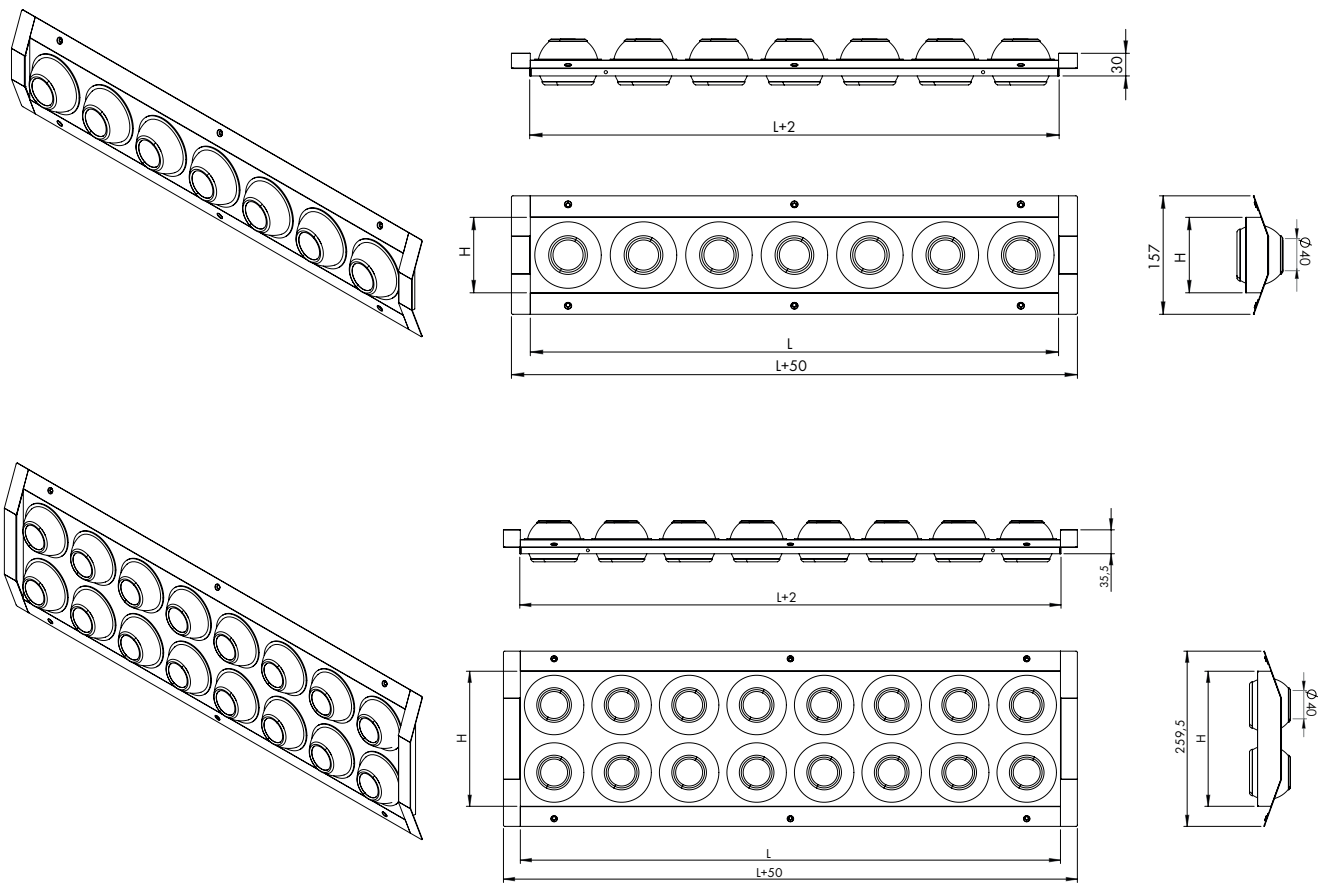
Text for tender

- The air ducts will be equipped with multinozzle diffusers for medium airflows at low noise levels. These diffusers consist of aluminium nozzles mounted in 1 or 2 rows in a steel construction. All nozzles can be individually adjusted to obtain a perfect air pattern. The standard finish of the diffuser is RAL 9006 to match with common galvanized ductwork, but can also be obtained in other colors upon request.
- **Cairox Type JET-MC**

Order example

■ JET-MC, 1R6N, 600 X 100, RAL 9006

Expanation
JET-MC : Type of diffuser
1R6N : 1 Row, 6 Nozzles
625 X 125 : Size L X H
RAL 9006 : Aluminium finish



JET-MC	Dimensions				# NOZZLES
	L [mm]	H [mm]	L+50 [mm]		
300 X 100 1R3N	300	100	350		3
400 X 100 1R4N	400	100	450		4
500 X 100 1R5N	500	100	550		5
600 X 100 1R6N	600	100	650		6
800 X 100 1R8N	800	100	850		8
1000 X 100 1R10N	1000	100	1050		10
300 X 200 2R3N	300	200	350		6
400 X 200 2R4N	400	200	450		8
500 X 200 2R5N	500	200	550		10
600 X 200 2R6N	600	200	650		12
800 X 200 2R8N	800	200	850		16
1000 X 200 2R10N	1000	200	1050		20

		Quick selection					
JET-MC 1R		300 X 100 1R3N	400 X 100 1R4N	500 X 100 1R5N	600 X 100 1R6N	800 X 100 1R8N	1000 X 100 1R10N
Q	Ak	0.0038	0.005	0.0063	0.0075	0.0101	0.0126
100	Vk	7.4	5.5	4.4	3.7		
	X0.25	12.4	9.7	7.6	6		
	Ps	35	19	12	9		
	Lw(A)	<20	<20	<20	<20		
150	Vk	11.1	8.3	6.6	5.5	4.1	3.3
	X0.25	16.2	13.5	11.4	9.7	7	5
	Ps	78	44	28	19	11	7
	Lw(A)	23	<20	<20	<20	<20	<20
200	Vk		11.1	8.8	7.4	5.5	4.4
	X0.25		16.2	14	12.4	9.7	7.6
	Ps		78	49	35	19	12
	Lw(A)		24	<20	<20	<20	<20
300	Vk			13.3	11.1	8.3	6.6
	X0.25			17.9	16.2	13.5	11.4
	Ps			111	78	44	28
	Lw(A)			30	26	<20	<20
400	Vk					11.1	8.8
	X0.25					16.2	14
	Ps					78	49
	Lw(A)					27	22
600	Vk						13.3
	X0.25						17.9
	Ps						111
	Lw(A)						33
JET-MC 2R		300 X 200 2R3N	400 X 200 2R4N	500 X 200 2R5N	600 X 200 2R6N	800 X 200 2R8N	1000 X 200 2R10N
Q	Ak	0.0075	0.0101	0.0126	0.0151	0.0201	0.0251
100	Vk	3.7					
	X0.25	6					
	Ps	9					
	Lw(A)	<20					
150	Vk	5.5	4.1	3.3			
	X0.25	9.7	7	5			
	Ps	19	11	7			
	Lw(A)	<20	<20	<20			
200	Vk	7.4	5.5	4.4	3.7		
	X0.25	12.4	9.7	7.6	6		
	Ps	35	19	12	9		
	Lw(A)	<20	<20	<20	<20		
300	Vk	11.1	8.3	6.6	5.5	4.1	3.3
	X0.25	16.2	13.5	11.4	9.7	7	5
	Ps	78	44	28	19	11	7
	Lw(A)	26	<20	<20	<20	<20	<20
400	Vk		11.1	8.8	7.4	5.5	4.4
	X0.25		16.2	14	12.4	9.7	7.6
	Ps		78	49	35	19	12
	Lw(A)		27	22	<20	<20	<20
600	Vk			13.3	11.1	8.3	6.6
	X0.25			17.9	16.2	13.5	11.4
	Ps			111	78	44	28
	Lw(A)			33	29	23	<20
800	Vk					11.1	8.8
	X0.25					16.2	14
	Ps					78	49
	Lw(A)					30	25
1000	Vk					13.8	11.1
	X0.25					18.2	16.2
	Ps					120	78
	Lw(A)					36	31
1200	Vk						13.3
	X0.25						17.9
	Ps						111
	Lw(A)						36

Symbols and specifications

- Above values are for multi-nozzlediffusers in 1 or 2 rows
- LxH = Width L and height H in mm $\frac{3}{4}$ Q = Air volume in m³/h
- Ak = Effective surface (free area) in m²
- Vk = Average effective velocity through the grille in m/s
- X0.25 = Horizontal throw in m at an end velocity Vt of 0.25 m/s
- Ps = Static pressure loss given in Pa
- Lw(A) = Acoustic power in dB(A)
- The throw X0.25 is given without deflection of the airstream at an end velocity of 0.25m/s. For all special requirements, please contact our engineering office.
- The values are given for isothermal supply air. Throw distances for cooling conditions at -11K can be calculated by deviding the X0.25 values with factor 1.1. For heating purposes at Dt of +11K a multiplier of 1.1 should be applied to the given X0.25 value.
- Acoustic powers below 20dB(A) are mentioned as "<20" in the tables.

Placement instruction

