Difair

Serie DRM20

DRM20PL



MOVABLE CONES DIFFUSER

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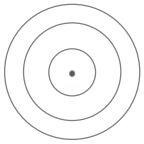
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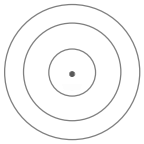
MOVABLE CONES DIFFUSER
SERIE DRM20/DRM20-PL



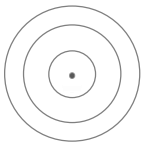
MODELS



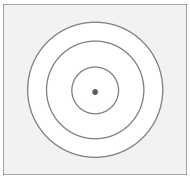
DRM20
Movable cones diffuser.



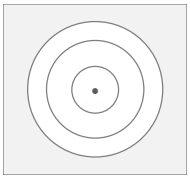
DRM20C
Movable cones diffuser with damper.



DRM20+PM
Movable cones diffuser with mounting crossbar.



DRM20-PL
Movable cones diffuser with plate.



DRM20C-PL
Movable cones diffuser with plate and damper.

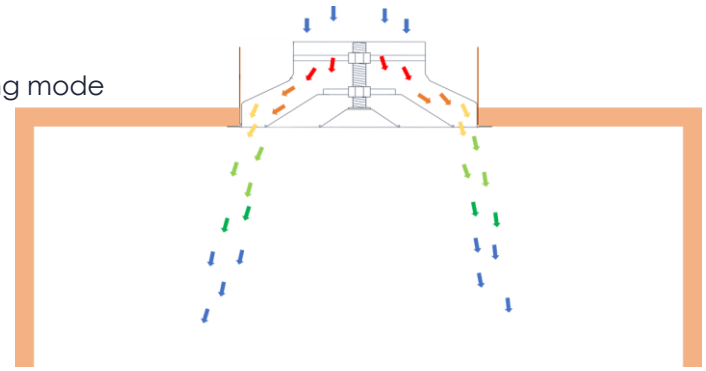
Note:
Mounting crossbar NOT compatible with plate-mounted movable cone diffusers.

DESCRIPTION

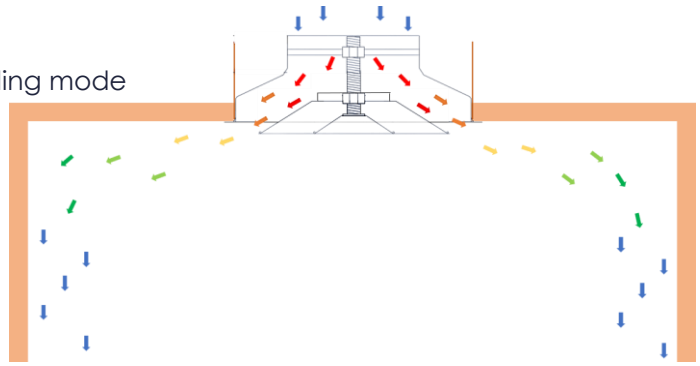
The **DRM** model circular variable-discharge diffuser consists of a series of cones with a uniform angle of inclination. The number of cones, therefore, varies depending on the size of the diffuser. The distinctive feature of this diffuser is an outer bell-shaped cone, as well as a set of inner cones that can be adjusted in height relative to the outer cone.
This adjustment of the inner cones allows the shape of the jet to be varied from a vertical spray to a horizontal spray, as well as any position in between. It works perfectly with temperature differences of 15°C in rooms 2.70m high and with greater temperature differentials in taller rooms.

This diffuser model is particularly well-suited for use in cooling and heating systems.
The **DRM** diffuser has cones made of anodized aluminum. The inner cones are connected to each other by welding to the inner cone, using a threaded element to adjust their position. This diffuser model is easily secured using a mounting bracket included with the diffuser.
Thanks to its anodized aluminum construction, this model features a finish that offers high resistance to corrosion. Its light weight allows it to be installed in a wide variety of settings.

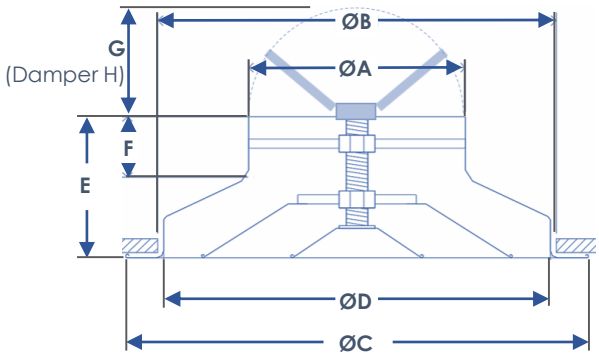
DRM20TH: heating mode

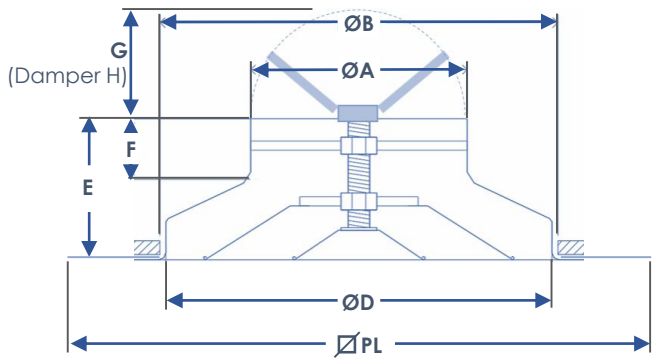


DRM20TH: cooling mode



DIMENSIONS





DIMENSIONS TABLE (mm) DRM20							
Mod.	**ØA**	**ØB**	**ØC**	**ØD**	**E**	**F**	**G**
6"	157	288	335	280	105	45	82
8"	198	370	423	360	118	48	102
10"	248	461	517	445	130	48	127
12"	298	576	640	560	146	48	152
14"	348	656	730	640	185	65	177
16"	398	700	776	680	185	65	202
18"	448	755	825	735	185	65	227
20"	498	825	917	805	185	65	252

DIMENSIONS TABLE (mm) DRM20-PL							
Mod.	**ØA**	**ØB**	**⍁PL**	**ØD**	**E**	**F**	**G**
6"	157	288	595	280	105	45	82
8"	198	370	595	360	118	48	102
10"	248	461	595	445	130	48	127
12"	298	576	595	560	146	48	152

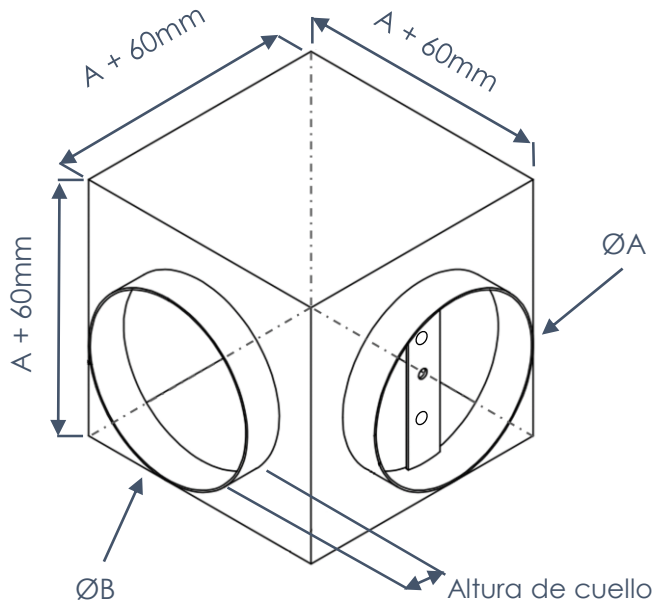
ACCESSORIES

- Mounting crossbar (**PMDRM**).
- Flexible Duct Collar (**CFDRM**).
- Insulated sheet metal plenum (**PADRM20**) and uninsulated sheet metal plenum (**PDRM20**).

FINISH (Diffuser)

- **WHITE LACQUERED** diffuser (9010).
- **ANODIZED ALUMINUM** diffuser.
- On request, the diffuser can be manufactured in other colors from the **RAL** color chart.

PLÉNUM



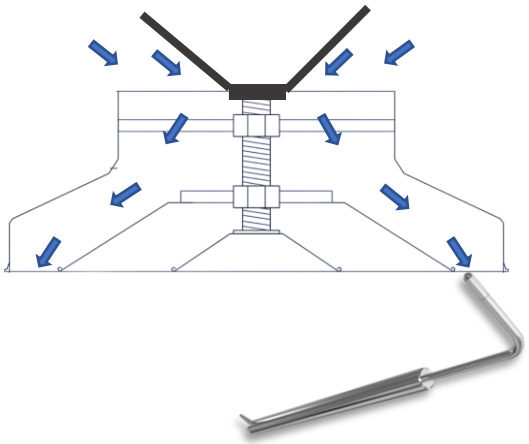
Modelo	ØA (mm)	ØB (mm)
PDRM20 / PADRM20 6"	160	157
PDRM20 / PADRM20 8"	200	197
PDRM20 / PADRM20 10"	250	247
PDRM20 / PADRM20 12"	300	297
PDRM20 / PADRM20 14"	350	347
PDRM20 / PADRM20 16"	400	397
PDRM20 / PADRM20 18"	450	447
PDRM20 / PADRM20 20"	500	497

AIR FLOW MEASUREMENT

There are two ways to do this:

1- Measuring Air Speed at the Neck.

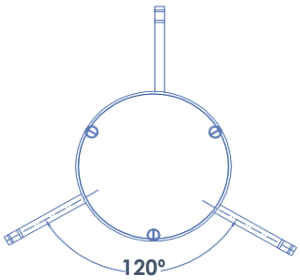
2- Measuring the effective flow speed using a Pitot tube at various points. **m²/h = Va × m² × 3,600**

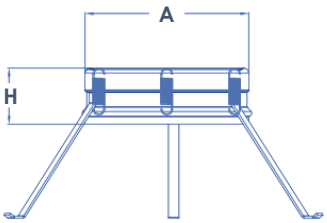


FLEXIBLE DUCT COLLAR

The **CF_CM** collar is made of galvanized sheet steel and allows for the installation of **DRM20 SERIES** moving-cone diffusers by connecting them directly to the duct, without the need for a plenum.

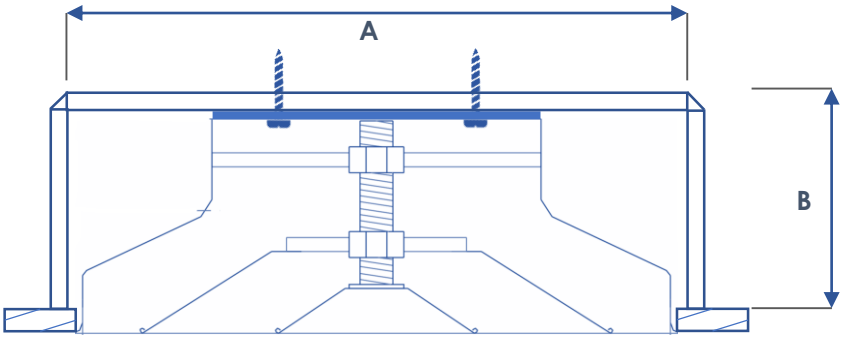






DIMENSIONS	160	200	250	315
A	154	194	244	309
H	60	60	60	60

MOUNTING CROSSBAR



DIMENSIONS TABLE								
Mod.	6"	8"	10"	12"	14"	16"	18"	20"
A	300	390	480	595	675	720	775	845
B	120	130	150	165	200	200	200	200

QUICK SELECTION TABLE

Flow m³/h		6"	8"	10"	12"	14"
100	Ve L Δ P dB(A)	1,5 0,7 0,8 <20				
200	Ve L Δ P dB(A)	2,9 1,1 1,6 25	2 1 0,7 <20			
300	Ve L Δ P dB(A)	5 1,8 4,2 35	2,6 1,3 1,2 22	1,8 1 0,6 <20		
400	Ve L Δ P dB(A)	6,3 2,3 6,5 43	3,6 1,8 2,3 28	2,2 1,2 1 22	1,6 1 0,5 <20	
500	Ve L Δ P dB(A)	8 3 9,8 50	4,5 2,2 3,4 33	3 1,6 1,4 25	2,1 1,4 0,6 21	
600	Ve L Δ P dB(A)		5,4 2,7 4,8 38	3,5 1,9 2,1 27	2,5 1,6 1 23	1,9 1,7 0,5 <20
700	Ve L Δ P dB(A)		6,3 3,1 6,3 42	4,2 2,3 2,5 33	3 1,9 1,3 25	2,1 1,9 0,7 <20
800	Ve L Δ P dB(A)		7,3 3,6 8 46	4,8 2,7 3,3 34	3,4 2,1 1,5 27	2,2 2,1 0,9 22
900	Ve L Δ P dB(A)			5,6 3 3,9 38	3,8 2,4 2,1 29	2,9 2,6 1,2 24
1.000	Ve L Δ P dB(A)			6 3,3 5 40	4,2 2,7 2,4 33	3,1 2,7 1,4 26
1.100	Ve L Δ P dB(A)			6,5 3,6 6,1 43	4,6 2,9 3 35	3,2 2,9 1,5 28
1.200	Ve L Δ P dB(A)			7,2 3,9 6,7 45	5,1 3,2 3,4 37	4 3,6 2,1 29
1.300	Ve L Δ P dB(A)				5,5 3,4 3,6 38	4,1 3,7 2,2 30

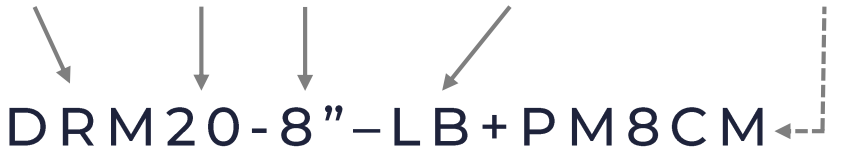
Flow m³/h		12"	14"	16"	18"	20"
1.400	Ve L Δ P dB(A)	6 3,7 4,6 40	4,3 3,9 2,4 32	3,2 3,3 1,4 27	2,8 3,5 1,1 23	2,2 2,7 0,5 21
1.500	Ve L Δ P dB(A)	6,1 3,8 4,7 42	4,9 4,4 3 34	3,3 3,4 1,5 29	3 3,6 1,2 25	2,4 2,9 0,6 22
1.600	Ve L Δ P dB(A)	6,9 4,2 6,1 44	5 4,5 3,2 36	4,1 4,2 2 30	3,2 3,8 1,4 26	2,5 3,1 0,7 23
1.700	Ve L Δ P dB(A)	7 4,3 6,1 46	5,2 4,6 3,3 37	4,2 4,3 2,1 32	3,4 4 1,6 27	2,6 3,4 0,8 24
1.800	Ve L Δ P dB(A)	7,9 4,9 7,7 47	5,9 5,3 4,3 38	4,3 4,4 2,2 33	3,6 4,4 1,5 28	2,8 3,8 1 24
1.900	Ve L Δ P dB(A)	8 5 7,8 50	6 5,4 4,4 40	4,4 4,5 2,3 34	3,8 4,6 1,7 29	3 3,9 1,1 25
2.000	Ve L Δ P dB(A)	8,9 5,6 9,6 54	6,1 5,5 4,6 42	5 5,2 3 35	4 4,8 1,9 30	3,3 4,3 1,3 26
2.100	Ve L Δ P dB(A)		6,2 5,6 4,7 43	5,1 5,3 3,1 36	4,2 5,5 2,3 32	3,6 4,7 1,5 27
2.200	Ve L Δ P dB(A)		7 6,3 5,8 45	5,3 5,5 3,3 38	4,5 6 2,5 33	3,8 5 1,7 28
2.400	Ve L Δ P dB(A)		7,1 6,4 6 48	5,9 6.2 4,1 40	4,8 6,5 2,7 35	4 5,2 1,9 29
2.600	Ve L Δ P dB(A)		8 7,2 7,4 51	6,3 6,7 5 42	5,3 6,5 3,1 36	4,2 5,5 2,1 31
2.800	Ve L Δ P dB(A)			7 7,1 5,4 44	5,7 6,9 3,8 38	4,6 6 2,4 32
3.000	Ve L Δ P dB(A)			7,8 8 6,8 44	6 7,2 4,1 40	4,9 6,3 2,6 34

Ve = Neck Speed
Δ P = Pressure drop in mm c.a.
dB(A) = Sound level
L = Range in m for a final speed of 0.2–0.5 m/s

Series	Model	Size
	20	
DRM	20C	Ø
	20PL	
	20CPL	

Finish
AN
LB
RAL

Fixing System
PM_CM
CF_CM
PDRM
PADRM



DESCRIPTION

SERIES & MODEL

- DRM20: Movable cones diffuser.

SIZE

- Diameter: Ø 8”.

FINISH

- LB: White laquered.

FIXING SYSTEM(optional)

- PM8CM: Mounting crosbar for 8” movable cone diffuser.

Order example: DRM20-8”-LB+PM8CM

- To order a white-lacquered Ø 8” movable cone diffuser with a mounting crossbar, you should request:

Order	Description
Diffuser DRM20 8”- White laquered	White-lacquered Ø 8” movable cone diffuser.
Crossbar PM8CM	Puente de montaje para difusor de conos móviles de 8”.

Order example: DRM20C-12”-AN

- To order a Ø 12” anodized aluminum movable cone diffuser with control damper, you should request:

Order	Description
Diffuser DRM20C 12”- Anodized aluminum	Ø 12” anodized aluminum movable cone diffuser with control damper.



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