



Serie
DCMU
DCMU-PL



SINGLE-MOVING-CONE
CIRCULAR DIFFUSER



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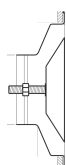
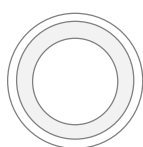


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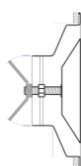
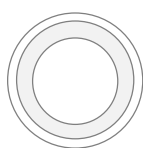


MODELS



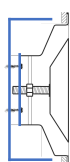
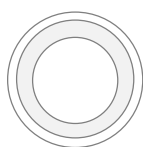
DCMU

Single-moving-cone circular diffuser.



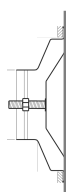
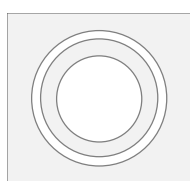
DCMU-C

Single-moving-cone circular diffuser with damper.



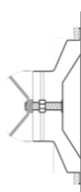
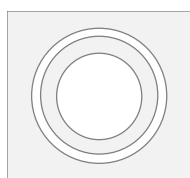
DCMU+PM

Single-moving-cone circular diffuser with crossbar.



DCMU-PL

Single-moving-cone circular diffuser on 595x595 mm plate.



DCMU-C-PL

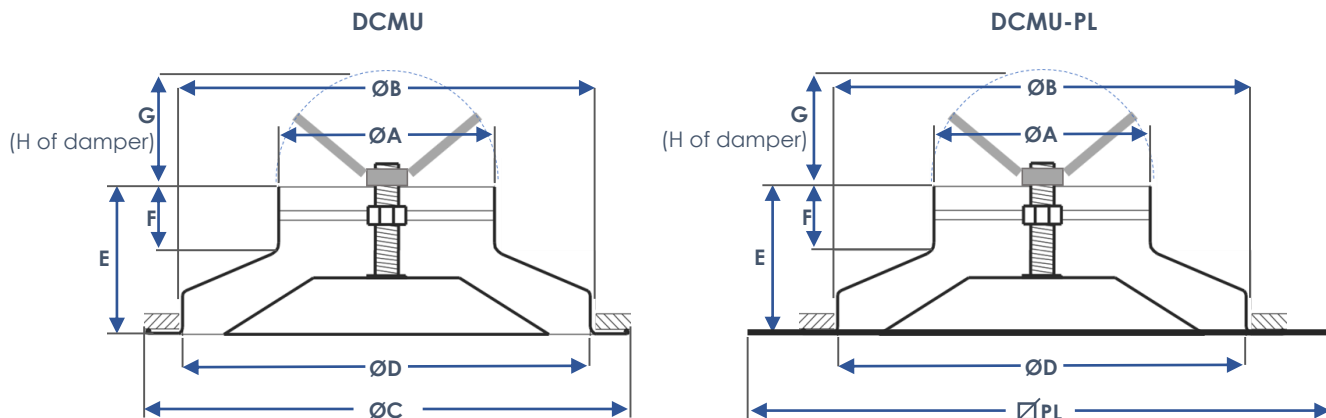
Single-moving-cone circular diffuser on 595x595 mm plate and damper.

Notice:

Mounting crossbar **NOT** compatible with plate/panel-mounted diffusers.

SINGLE-MOVING-CONE CIRCULAR DIFFUSER SERIE DCMU / DCMU-PL

DIMENSIONS



DIMENSIONS TABLE (mm) DCMU							
Mod.	ØA	ØB	ØC	ØD	E	F	G
100	98	198	230	194	75	30	52
150	148	288	335	280	105	45	77
160	157	288	335	280	105	45	82
200	198	370	423	360	118	48	102
250	248	461	517	445	130	48	127
300	298	576	640	560	146	48	152
315	348	656	730	640	185	65	177

DIMENSIONS TABLE (mm) DCMU-PL							
Mod.	ØA	ØB	ØPL	ØD	E	F	G
100	98	198	595	194	75	30	52
150	148	288	595	280	105	45	77
160	157	288	595	280	105	45	82
200	198	370	595	360	118	48	102
250	248	461	595	517	130	45	127
300	298	576	595	560	146	48	152

ACCESSORIES

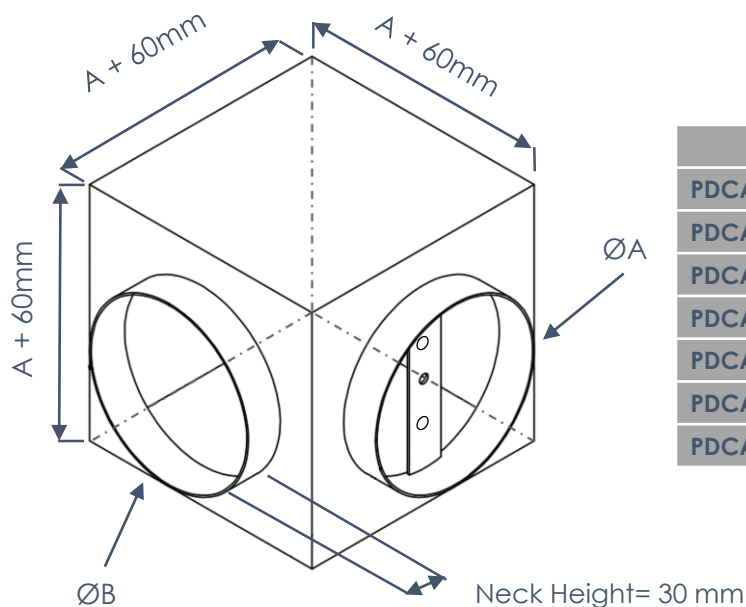
- Mounting crossbar (**PM_CM**).
- Flexible Duct Collar (**CF_CM**).
- Insulated sheet metal plenum box (**PA_CM**) and not insulated (**P_CM**).

FINISH

- **ANODIZED ALUMINUM** diffuser.
- White Lacquered Diffuser **RAL 9010**.
- On request, the diffuser can be manufactured in other colors from the **RAL color chart**.

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PLENUM BOX



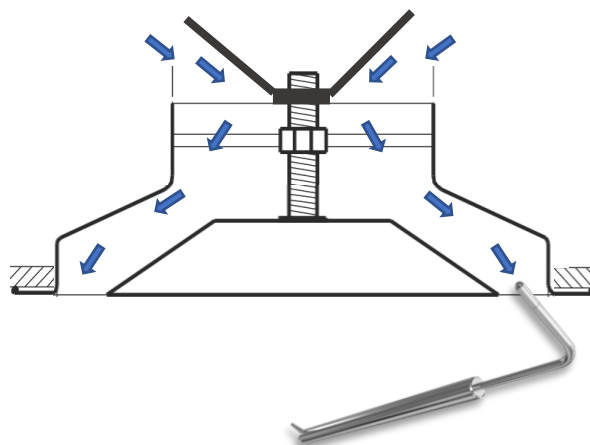
Model	$\varnothing A$ (mm)	$\varnothing B$ (mm)
PDCA / PADCA-PL 100	---	---
PDCA / PADCA-PL 150	---	---
PDCA / PADCA-PL 160	160	157
PDCA / PADCA-PL 200	200	197
PDCA / PADCA-PL 250	250	247
PDCA / PADCA-PL 300	300	297
PDCA / PADCA-PL 350	350	347

AIR FLOW MEASUREMENT

There are two ways to do it:

1ª- Measuring Air Speed at the Neck.

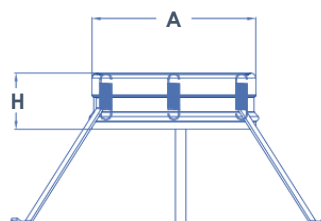
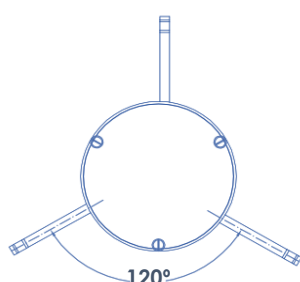
2ª- Measuring the effective flow speed using a Pitot tube at various points. $\text{m}^2/\text{h} = V_a \times \text{m}^2 \times 3,600$



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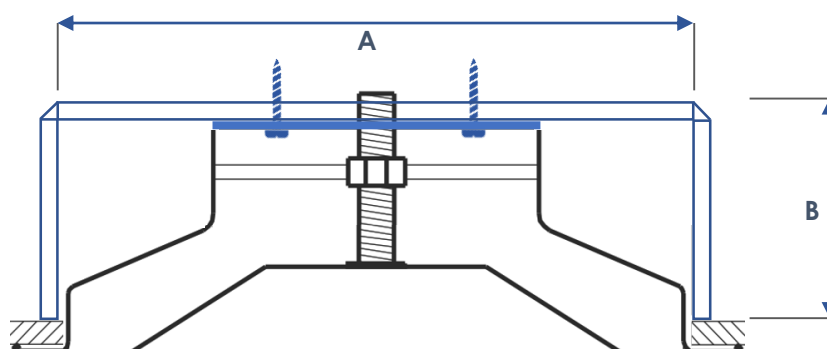
FLEXIBLE DUCT COLLAR

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



DIMENSIONS	100	150	160	200	250	315
A	104	144	154	194	244	309
H	60	60	60	60	60	60

MOUNTING CROSSBAR



DIMENSIONS TABLE							
Mod.	100	150	160	200	250	300	315
A	210	300	300	390	480	595	675
B	110	120	120	130	150	165	200

SINGLE-MOVING-CONE CIRCULAR DIFFUSER SERIE DCMU / DCMU-PL

QUICK SELECTION TABLE

Air flow m³/h		100		150		160	
		Summer & winter		Summer & winter		Summer & winter	
100	Ve	3,5	4	2,1	2,5	1,7	2
	L	1,4	2,6	1,1	1,9	1	1,7
	Δ P	2	2,6	0,8	1	0,5	0,7
	dB(A)	26	30	<20	<20	<20	<20
200	Ve	6,9	7,9	4,3	4,9	3,5	4
	L	2,5	5,2	1,9	3,8	1,8	3,3
	Δ P	6,6	8,5	2,6	3,4	1,7	2,3
	dB(A)	44	49	32	36	27	31
300	Ve			6,4	7,4	5,2	6
	L			2,7	5,7	2,5	5
	Δ P			5,1	6,8	3,4	4,6
	dB(A)			42	47	37	42
400	Ve					6,9	8
	L					3,1	6,6
	Δ P					5,6	7,4
	dB(A)					44	49

Air flow m³/h		200		250		300		315	
		Summer & winter		Summer & winter		Summer & winter		Summer & winter	
200	Ve	2,5	2,9						
	L	1,5	2,7						
	Δ P	0,9	1,2						
	dB(A)	20	24						
300	Ve	3,7	4,3	2,3	2,6				
	L	2,1	4,1	1,8	3				
	Δ P	1,8	2,4	0,7	0,9				
	dB(A)	30	34	22	24				
400	Ve	5	5,7	3,1	3,5				
	L	2,7	5,4	2,2	4				
	Δ P	2,9	3,9	1,1	1,5				
	dB(A)	37	41	28	31				
500	Ve	6,2	7,2	3,8	4,4	2,3	2,7		
	L	3,2	6,8	2,6	5,1	2,2	3,6		
	Δ P	4,3	5,8	1,7	2,3	0,6	0,9		
	dB(A)	42	47	33	36	28	29		
600	Ve			4,6	5,3	2,8	3,2	2,3	2,7
	L			3	6,1	2,5	4,3	2,4	3,8
	Δ P			2,3	3,1	0,9	1,2	0,6	0,8
	dB(A)			37	40	31	33	30	31
700	Ve			5,4	6,2	3,2	3,7	2,7	3,1
	L			3,4	7,1	2,8	5	2,6	4,5
	Δ P			3	4	1,1	1,5	0,8	1,1
	dB(A)			40	44	34	36	33	34
800	Ve			6,1	7	3,7	4,3	3,1	3,6
	L			3,8	8,1	3,1	5,7	2,9	5,1
	Δ P			3,7	5	1,4	1,9	1	1,4
	dB(A)			43	47	36	38	35	37
900	Ve					4,2	4,8	3,5	4
	L					3,4	6,5	3,2	5,8
	Δ P					1,7	2,3	1,2	1,7
	dB(A)					38	41	37	39
1000	Ve					4,6	5,3	3,9	4,5
	L					3,7	7,2	3,5	6,4
	Δ P					2,1	2,8	1,5	2
	dB(A)					40	43	39	41
1.100	Ve					5,1	5,9	4,3	4,9
	L					3,9	7,9	3,7	7
	Δ P					2,4	3,3	1,8	2,4
	dB(A)					42	45	40	42
1.200	Ve							4,7	5,4
	L							3,9	7,7
	Δ P							2	2,8
	dB(A)							42	44
1.300	Ve							5,1	5,8
	L							4,2	8,3
	Δ P							2,3	3,2
	dB(A)							43	45

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

SINGLE-MOVING-CONE CIRCULAR DIFFUSER

SERIE DCMU / DCMU-PL

Series		Model	Finish	Fixing System
DCMU	100	100C	AN	PM_CM
	150	150C	LB	CF_CM
	160	160C	RAL	P_CM
	200	200C		PA_CM
DCMU-PL	250	250C		
	300	300C		
	315	315C		

↓ ↓ ↓ ↓

DCMU-100-LB+PM100CM

DESCRIPCIÓN

SERIES & MODEL

- DCMU: Single-moving-cone circular diffuser.

SIZE

- DCMU100: Ø 100mm.

FINISH

- LB: White.

FIXING SYSTEM (optional)

- PM100CM: Mounting crossbar for a 100mm adjustable cone diffuser.

Order example: DCMU100-LB+PM100CM

- To order a Ø 100mm adjustable cone diffuser, white lacquered, with a mounting crossbar, you should request:

Order	Description
1 Diffuser DCMU100-LB	Ø 100mm adjustable cone diffuser, white lacquered.
1 Crossbar PM100CM	Mounting crossbar for Ø 100mm adjustable cone diffuser.

Order example: DCMU160C-AN

- To order a Ø 160mm adjustable cone diffuser made of anodized aluminum with flow control damper, you should request:

Pedido	Descripción
1 Diffuser DCMU160C-AN	Ø 160mm adjustable cone diffuser made of anodized aluminum with flow control damper



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