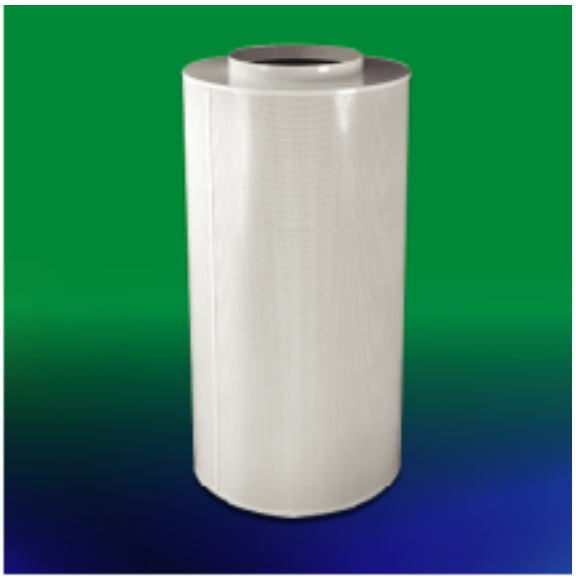
PERFORATED CIRCULAR DISPLACEMENT DIFFUSER

PDDC Perforated Circular Displacement Diffuser



■ Description

Perforated circular displacement diffuser is a low velocity diffuser for floor installation. PDDC consists of a detachable front panel and removable inner structure. The fixed flow equalization casing allows the air uniformly distributed.

■ Materials

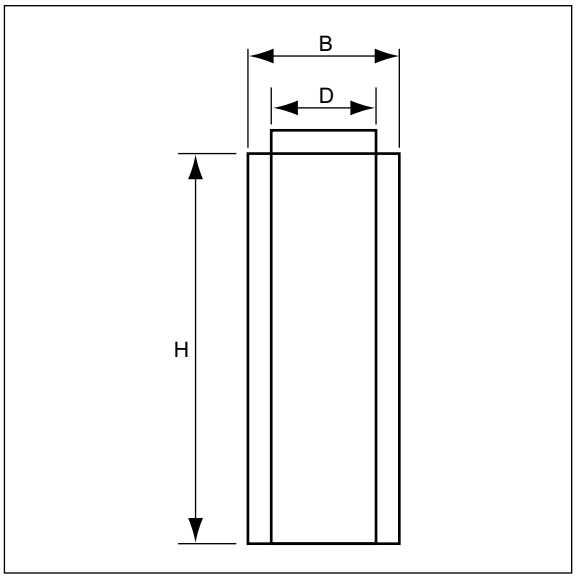
- Perforated aluminum sheet frame.
- Perforated galvanized steel sheet frame.
- Perforated stainless steel sheet frame.

■ Surface Finish

- Baked white powder coat as standard.

■ Dimension

- Comply with requirement.



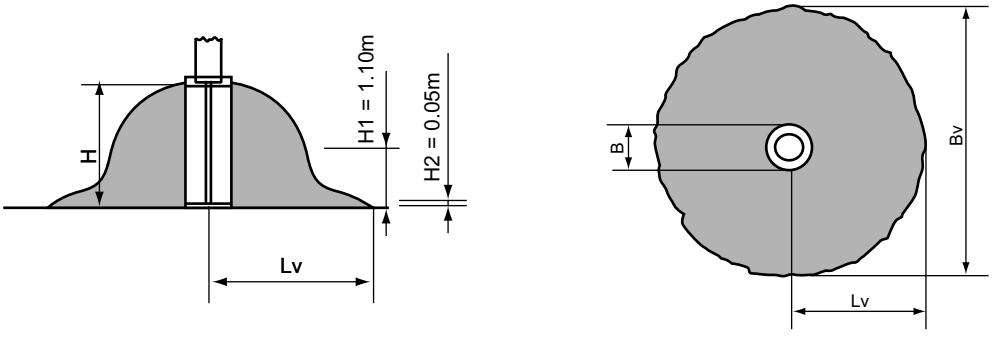
■ Function

Supply air is brought into the space through the front panel of the PDDC. Normally the supply air temperature is set lower than the room temperature; therefore, the incoming air moves down to the floor level and gradually pervades the occupied zone. The flow pattern is circular. Workstation can be located close to the PDDC.

■ PDDC Order Code Unit:mm

Model	Materials	D	H
PDDC	T	320	1800

■ PDDC Construction Illustrations



PDDC Perforated Circular Displacement Diffuser

■ Quick Selection Guide

D (mm)	Q (mm)	Δ Pt (mmAq)	B x H (mm x mm)	H1 = 1.10m				H2 = 0.05m			
				v = 0.2 m/s		v = 0.35 m/s		v = 0.2 m/s		v = 0.35 m/s	
				Lv (m)	Bv (m)	Lv (m)	Bv (m)	Lv (m)	Bv (m)	Lv (m)	Bv (m)
200	450	1.22	270 x 1000	-	-	+	+	0.5	1.0	+	+
	560	1.84		-	-	+	+	0.7	1.4	+	+
	660	2.55		-	-	+	+	1.9	3.6	0.3	0.6
250	690	1.22	320 x 1200	-	-	+	+	1.5	3.0	+	+
	840	1.73		0.4	0.8	+	+	1.7	3.4	+	+
	1000	2.45		0.4	0.8	+	+	1.9	3.8	0.4	0.8
320	1110	1.43	400 x 1300	0.6	1.2	+	+	2.2	4.4	+	+
	1310	2.04		0.7	1.4	+	+	2.5	5.0	0.5	1.0
	1560	2.86		1.0	2.0	0.4	0.8	3.0	6.0	0.6	1.2
400	1840	1.33	500 x 1800	1.2	2.4	0.5	1.0	3.1	6.2	0.6	1.2
	2240	1.73		1.9	3.8	0.8	1.6	4.1	7.2	0.9	1.8
	2650	2.35		2.6	5.2	0.9	1.8	6.0	12.0	1.1	2.2
500	2830	1.33	630 x 1900	2.3	4.6	0.4	0.8	4.1	8.2	0.4	0.8
	3420	1.93		2.8	5.6	0.5	1.0	4.6	9.2	0.6	1.2
	4050	2.55		3.3	6.6	0.6	1.2	5.3	10.6	1.0	2.0
600	3740	1.22	800 x 2000	3.0	6.0	0.6	1.2	5.0	10.0	0.9	1.8
	4750	1.94		3.8	7.6	0.8	1.6	6.1	12.2	1.2	2.4
	5760	2.86		5.2	10.4	1.3	2.6	6.9	13.8	2.0	4.0

- = V < 0.2 m/s
+ = V < 0.35
Nearzone temperature difference = -3˚C

■ Sound Power Level In Octave Bands

D (mm)	Q (CMH)	Δ Pt (mmAq)	Frequency (Hz)								LpA (A) db (A)
			63	125	250	500	1000	2000	4000	8000	
200	470	1.33	35	31	28	31	25	-	-	-	25
	560	1.84	41	31	30	34	30	19	-	22	31
	670	2.65	44	32	34	39	37	25	18	22	35
	780	6.67	45	34	38	41	41	35	23	23	41
250	690	1.22	38	24	25	30	-	-	-	20	23
	840	1.73	44	30	32	36	25	-	18	22	29
	980	2.35	45	35	35	39	34	25	21	24	34
	1200	3.47	45	39	40	42	44	34	26	28	41
320	1100	1.53	33	28	32	25	24	-	-	-	26
	1300	2.04	40	31	34	33	29	18	-	20	30
	1560	2.86	41	35	38	38	35	25	-	21	34
	1850	3.88	43	38	41	41	43	33	22	21	42
400	1830	1.33	40	33	25	25	24	22	19	21	23
	2200	1.73	53	34	33	34	28	19	21	25	28
	2600	2.35	53	34	37	39	36	25	23	27	34
	3000	3.06	53	37	40	42	42	31	25	27	41
500	3450	1.94	46	32	35	33	29	19	18	24	31
	4000	2.45	50	34	37	35	34	24	19	25	35
	4500	3.16	54	36	41	39	39	28	20	32	38
	5000	3.77	57	38	42	42	44	31	21	33	41
600	4700	1.94	54	32	31	30	25	-	-	31	31
	5500	2.55	57	34	35	32	30	-	-	35	33
	6300	3.37	60	36	38	35	36	22	18	38	38
	7000	4.28	61	38	40	37	39	23	19	41	39

- = Sound Power Level < 17dB