

PPD

- > Perforated Diffuser
- > Supply/Return
- > Flanged

DESCRIPTION

Our perforated ceiling diffusers include a flange frame and blanking plates.

With a near 50% free area the PPD provides a stable throw that can be directed with the four included blanking plates.

CONSTRUCTION

Steel faceplate, extruded aluminium flange.

Finish:

White RAL 9010 epoxy powder

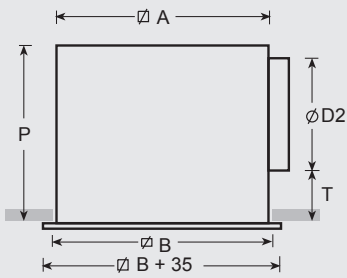
Options:

- Damper
- Round or Square connection
- Flat/Tegular/Dropped (13 mm)
- Galvanised steel plenum

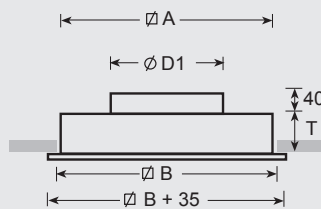
MODELS

PPD-S: Flanged supply
PPD-R: Flanged return

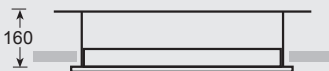
PPD-S/R – Side Connection



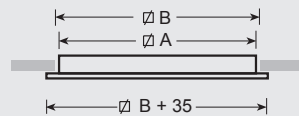
PPD-S/R – Top Connection



PPD-R – Square Top Non-Vision



PPD-S/R – Square Top Connection



DIMENSIONS (mm)

Size	B	A	D1	D2	T	P
250 x 250	249	242	123	123	70	235
300 x 300	313	307	158	158	70	270
400 x 400	388	382	198	198	75	315
500 x 500	483	477	248	198	85	325
550 x 550	556	551	313	248	105	395

WEIGHT (kg)

Size	Round top		Sq	Lined Plenum		Ø Damper
	Supply	Return	Return	Supply	Return	
250 x 250	1.4	0.9	0.6	2.6	2.1	0.1
300 x 300	1.9	1.2	0.8	3.8	3.0	0.2
400 x 400	2.5	1.6	1.1	5.4	4.3	0.3
500 x 500	3.6	2.2	1.5	7.4	5.8	0.4
550 x 550	4.6	2.9	1.8	9.9	7.8	0.5

Sq = Square top

NOTES

Dimensions are given in mm.
 Connection D equals actual outside diameter.
 Non-vision height = 160 mm.

PPD - SELECTION DATA

SUPPLY SELECTION DATA														
4-Way														
Air Volume m ³ /s	0.015	0.020	0.025	0.030	0.040	0.050	0.060	0.080	0.100	0.125	0.150	0.200	0.250	
Size	250 x 250	T	0.4	0.6	0.7	0.8	1.2	1.4	1.7					
		Pa	1	1	2	3	4	5	8					
		dB(A)	-	5	11	16	23	29	35					
	300 x 300	T			0.6	0.7	0.9	1.2	1.5	1.8	2.5			
		Pa			1	1	3	4	6	11	17			
		dB(A)			-	2	14	20	20	32	38			
	400 x 400	T					0.8	1.0	1.1	1.5	1.9	2.4	3.1	
		Pa					1	2	3	6	9	13	19	
		dB(A)					6	12	17	24	30	36	42	
	500 x 500	T							1.3	1.6	2.1	2.5	3.3	
		Pa							4	4	10	15	25	
		dB(A)							17	22	30	33	40	
	550 x 550	T							1.4	1.8	2.2	2.8	3.6	
		Pa							4	6	8	14	22	
		dB(A)							16	22	27	34	39	

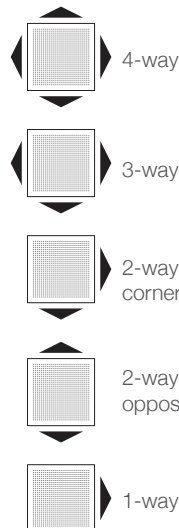
SUPPLY SELECTION DATA														
3-Way														
Air Volume m ³ /s	0.015	0.020	0.025	0.030	0.040	0.050	0.060	0.080	0.100	0.125	0.150	0.200	0.250	
Size	250 x 250	T	0.4	0.6	0.7	0.9	1.2	1.5	2.0					
		Pa	1	2	3	4	6	10	13					
		dB(A)	-	7	12	18	25	31	36					
	300 x 300	T			0.6	0.7	1.0	1.2	1.6	1.9	2.4			
		Pa			1	2	3	5	8	14	21			
		dB(A)			4	8	16	22	23	34	42			
	400 x 400	T					0.8	1.1	1.3	1.7	2.2	2.6		
		Pa					2	3	4	7	11	18		
		dB(A)					8	14	16	25	32	37		
	500 x 500	T							1.4	1.8	2.4	2.7	3.5	
		Pa							5	8	12	17	30	
		dB(A)							19	25	30	35	40	
	550 x 550	T							1.6	2.0	2.4	3.3	4.0	
		Pa							4	7	11	18	27	
		dB(A)							19	24	29	37	40	

2-Way Opposite													
Air Volume m ³ /s	0.015	0.020	0.025	0.030	0.040	0.050	0.060	0.080	0.100	0.125	0.150	0.200	0.250
Size	250 x 250	T	0.6	0.7	0.8	1.1	1.5	1.9	2.2				
		Pa	2	4	5	8	13	20	28				
		dB(A)	3	10	16	21	28	34	38				
	300 x 300	T			0.8	0.9	1.2	1.5	1.8	2.5			
		Pa			3	4	6	12	14	26			
		dB(A)			7	12	19	25	30	35			
	400 x 400	T					1.0	1.3	1.6	2.0	2.7		
		Pa					3	5	7	13	20		
		dB(A)					12	17	21	29	30		
	500 x 500	T							1.8	2.2	2.8	3.5	
		Pa							9	12	19	28	
		dB(A)							22	28	35	38	
	550 x 550	T							1.9	2.4	2.8	3.0	4.9
		Pa							7	10	15	27	42
		dB(A)							21	27	32	40	44

2-Way Corner													
Air Volume m ³ /s	0.015	0.020	0.025	0.030	0.040	0.050	0.060	0.080	0.100	0.125	0.150	0.200	0.250
Size	250 x 250	T	0.6	0.7	0.9	1.1	1.5	1.9	2.3				
		Pa	3	4	7	11	17	25	35				
		dB(A)	5	12	18	24	29	34	41				
	300 x 300	T			0.8	0.9	1.2	1.5	1.8	2.5			
		Pa			3	5	9	13	19	33			
		dB(A)			19	14	21	27	33	39			
	400 x 400	T					1	1.3	1.5	2	2.7		
		Pa					4	6	9	15	23		
		dB(A)					12	18	23	33	37		
	500 x 500	T							1.8	2.3	2.8	3.3	
		Pa							10	15	25	34	
		dB(A)							24	30	36	44	
	550 x 550	T							1.9	2.4	2.8	3	5.1
		Pa							8	13	19	33	50
		dB(A)							23	29	34	41	44

1-Way													
Air Volume m ³ /s	0.015	0.020	0.025	0.030	0.040	0.050	0.060	0.080	0.100	0.125	0.150	0.200	0.250
Size	250 x 250	T	0.9	1.2	1.5	2.2	2.5						
		Pa	7	12	19	30	49						
		dB(A)	13	20	27	31	39						
	300 x 300	T			1.3	1.6	2.2	2.5	3.1				
		Pa			9	13	23	34	51				
		dB(A)			19	23	31	36	41				
	400 x 400	T					1.7	2.2	2.5	3.4			
		Pa					11	17	24	43			
		dB(A)					22	28	32	44			
	500 x 500	T							2.1	2.8	3.5		
		Pa							13	24	35		
		dB(A)							25	32	39		
	550 x 550	T							2.3	3.1	3.8	4.5	
		Pa							13	21	32	47	
		dB(A)							27	32	38	40	

Spread Pattern



KEY INFORMATION

Throw based on diffuser installed in a standard dropped ceiling.

T = Throw in metres (m)

Pa = Static Pressure Drop

dB(A) = Sound Pressure Level

Return data over the page.

PPD – SELECTION DATA

RETURN SELECTION DATA

		Round Connection														
Air Volume m ³ /s		0.015	0.020	0.025	0.030	0.040	0.050	0.060	0.080	0.100	0.125	0.150	0.200	0.250	0.300	
Size	250 x 250	Pa	1	3	4	6	11	15	24							
		dB(A)	-	-	-	-	-	12	18							
	300 x 300	Pa			1	3	4	6	9	15	24					
		dB(A)			-	-	-	-	-	13	19					
	400 x 400	Pa					1	2	3	7	9	14	22			
		dB(A)					-	-	-	-	-	15	20			
	500 x 500	Pa							3	5	8	13	18	31		
		dB(A)							-	-	-	15	20	28		
	550 x 550	Pa								3	4	6	9	15	25	35
		dB(A)								-	-	-	10	17	23	25

KEY INFORMATION

Throw based on diffuser installed in a standard suspended ceiling.

T = Throw in metres (m)

Pa = Static Pressure Drop

dB(A) = Sound Pressure Level

Square Connection (non-vision)

		Square Connection (non-vision)													
Air Volume m ³ /s		0.080	0.100	0.125	0.150	0.200	0.300	0.400	0.500	0.600	0.800	1.000			
Size	250 x 250	Pa	9	13	21	30	55								
		dB(A)	10	15	20	25	32								
	300 x 300	Pa	3	5	8	11	20	45	79						
		dB(A)	-	-	11	14	22	32	39						
	400 x 400	Pa		2	3	4	8	18	32	49	69				
		dB(A)		-	-	-	13	25	30	35	39				
	500 x 500	Pa				2	3	7	13	20	29	51			
		dB(A)				-	-	14	21	28	31	38			
	550 x 550	Pa					2	3	6	10	14	24	37		
		dB(A)					-	-	14	19	23	32	39		