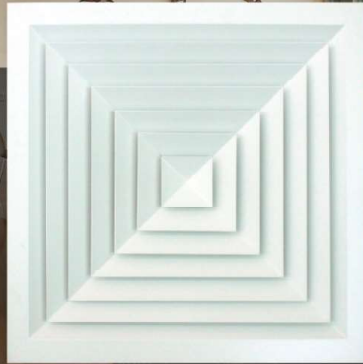




CD Ceiling Diffuser





Introduction

With wide range of flow deflection designs, Ceiling Diffusers (CD/DDCD/CDP) are capable of providing excellent air distribution (horizontal /angled/veritcal throw) for a wide range of operating conditions. By arranging blade vanes in pre-determine orientation, ceiling diffuser is able to create multi-directional air flow from a single outlet (1-4 different flow directions).

Equipping with a Double Deflection center core, ceiling diffuser (DDCD) is able to provide flexible direction of air distribution and yet maintaining superb horizontal distribution (for individual cooling and conventional uniform zone cooling).

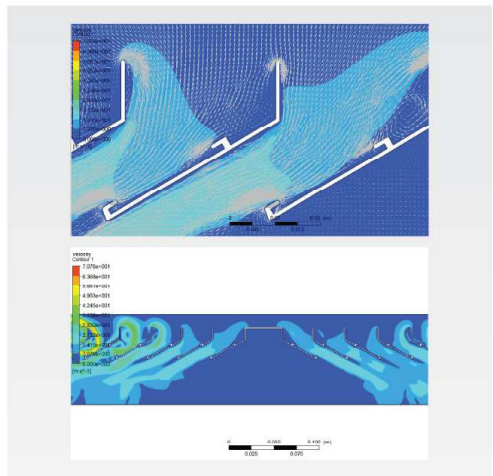
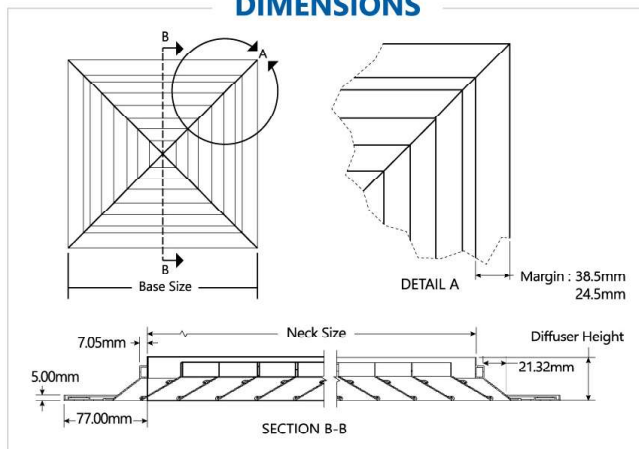
CONSTRUCTIONS & MATERIALS

- 1-4 way flow directions
- Adjustable throw directions (Plate deflector)
- Customizable throw (Horizontal/Angled, Upon request)
- Removable center cores (Upon request)
- Highly customizable designs

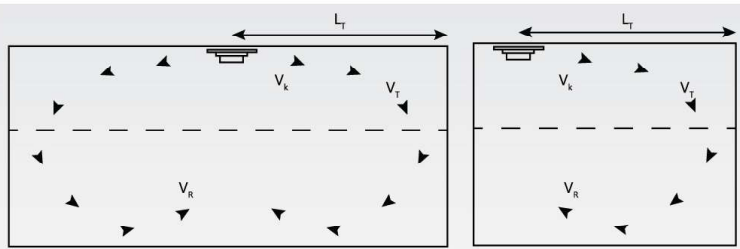
Frames			Vanes		
AL 1.2mm	GI 0.6mm	SS 1.0mm	AL 1.2mm	GI 0.5mm	SS 1.0mm
Extruded Aluminium	Galvanized Steel Stainless Steel*	Stainless Steel	Extruded Aluminium	Galvanized Steel Stainless Steel*	Stainless Steel

* Upon request

DIMENSIONS

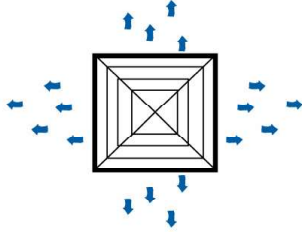


FOR SINGLE CORE PLATE DEFLECTOR



TECHNICAL PERFORMANCE DATA

Supply - 4 Way Square Diffuser



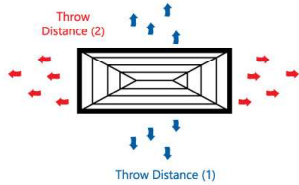
* Diffuser performance data factored in Coanda effect & fully opened Radial OBD conditions.

* The effective area given is to the best estimation & knowledge of Prudentaire's engineers at the point of entry.



Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	NR25		NR35		NR40		NR45			
			100	150	200	250	500	800	1000	2000	3000	
150 x 150	0.0225 (0.009)	Throw Distance (0.37 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	28 1.2 3.0 5.0 20 0.12 13	42 1.8 4.6 13 30 0.05 23	56 3.0 7.7 32 42 0.022 >30	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	
150 x 150	0.0506 (0.02)	Throw Distance (0.37 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	- - - - - -	1.2 2.1 2.5 <2.0 0.23 8.0	1.6 2.8 4.7 26 0.13 11	2.1 3.5 7.0 26 0.08 16	4.0 6.9 26 42 0.025 >30	- - - - - -	- - - - - -	- - - - - -	- - - - - -	
300 x 300	0.09 (0.036)	Throw Distance (0.37 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	- - - - - -	- - - - - -	1.2 1.5 <2.0 <2.0 >0.25 5.0	1.5 1.9 2.2 3.2 0.23 7.5	3.0 3.9 8.2 42 0.07 18	4.8 6.2 22 47 0.035 >30	5.8 7.7 32 47 <0.03 >30	- - - - - -	- - - - - -	
375 x 375	0.141 (0.056)	Throw Distance (0.37 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	- - - - - -	- - - - - -	- - - - - -	1.3 1.2 <2.0 <2.0 >0.25 4.0	2.4 2.5 3.5 9.0 0.14 11	3.9 4.0 9.0 34 0.065 20	4.8 5.0 14 38 0.045 25	9.0 9.9 55 >50 - -	- - - - - -	
450 x 450	0.2025 (0.081)	Throw Distance (0.37 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	- - - - - -	- - - - - -	- - - - - -	- - - - - -	2.1 1.7 <2.0 <2.0 >0.25 6.5	3.5 2.7 4.2 27 0.11 13	4.0 3.4 7.0 32 0.09 16	8.0 6.9 27 47 - -	- - - - - -	
525 x 525	0.276 (0.110)	Throw Distance (0.37 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	- - - - - -	- - - - - -	- - - - - -	- - - - - -	1.8 1.3 <2.0 <2.0 >0.25 2.7	2.7 2.0 2.2 26 0.23 7.5	3.5 2.5 3.5 26 0.15 11	7.0 5.1 15 43 - -	10 7.6 32 >50 - -	

Supply - 4 Way Rectangular Diffuser



* Diffuser performance data factored in Coanda effect & fully opened Radial OBD conditions.

* The effective area given is to the best estimation & knowledge of Prudentaire's engineers at the point of entry.

* Neck size given are in Height x Length.



Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	NR25		NR35		NR40		NR45			
			100	150	200	250	500	600	800	1000	2000	2500
150 x 225	0.03375 (0.014)	Throw Distance (1) (0.37 m/s), m Throw Distance (2) (0.37m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient (1,2) Induction Ratio (1,2)	56 2.2 1.6 4.0 9.0 27 0.05/0.1 21/14	70 2.7 2.0 5.0 14 33 0.04/0.06 27/19	112 4.5 3.2 8.0 37 44 0.02/0.03 >30	140 5.5 4.0 10 55 >50 -	168 -	224 -	280 -	560 -	700 -	
150 x 300	0.045 (0.018)	Throw Distance (1) (0.37 m/s), m Throw Distance (2) (0.37m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient (1,2) Induction Ratio (1,2)	2.0 1.2 3.0 5.0 22 0.09/0.22 16/8.0	2.6 1.6 3.9 9.0 27 0.05/0.13 22/11	4.2 2.5 6.2 7.7 30 44 0.02/0.04 -20	5.0 3.0 7.7 9.3 50 >50 -	6.0 3.8 -	-	-	-	-	
225 x 300	0.0675 (0.027)	Throw Distance (1) (0.37 m/s), m Throw Distance (2) (0.37m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient (1,2) Induction Ratio (1,2)	1.5 1.3 2.0 2.2 <2.0 0.19/0.25 8.5/8.0	2.0 1.6 2.6 4.0 9.0 0.11/0.18 13/9.0	3.0 2.5 4.1 9.0 15 31 0.05/0.08 22/17	3.9 3.0 5.1 15 22 36 0.03/0.06 30/22	4.5 3.5 6.2 8.2 22 40 0.04/0.09 -27	6.0 4.7 -	-	-	-	
225 x 375	0.0844 (0.034)	Throw Distance (1) (0.37 m/s), m Throw Distance (2) (0.37m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient (1,2) Induction Ratio (1,2)	- - - - - - -	1.7 1.3 2.0 2.2 <2.0 0.07/0.14 9.0/6.0	3.0 2.5 3.3 6.0 9.0 26 18/11	3.5 2.5 4.1 9.0 14 32 0.06/0.1 22/14	4.5 2.7 4.9 22 36 43 0.04/0.09 30/16	5.5 3.5 6.5 8.2 22 47 -0.06 -23	7.0 4.7 8.2 37 47 <-0.03 -	- - - - - -	- - - - - -	
225 x 450	0.1013 (0.041)	Throw Distance (1) (0.37 m/s), m Throw Distance (2) (0.37m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient (1,2) Induction Ratio (1,2)	- - - - - - -	- - - - - - -	2.7 1.7 2.7 4.5 23 0.09/0.2 16/8	3.5 2.2 3.4 7.0 26 0.06/0.14 23/11	5.2 3.2 5.4 17 38 -0.07 -20	5.2 3.2 5.4 17 38 -0.07 -20	6.5 3.8 6.8 25 44 -0.05 -23	- - - - - -	- - - - - -	

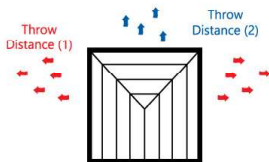
Supply - 4 Way Rectangular Diffuser

Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	NR25		NR35		NR40	NR45			
			200 56	250 70	400 112	500 140	600 168	800 224	1000 280	2000 560	2500 840
300 x 375	0.1125 (0.045)	Throw Distance (1) (0.37 m/s), m	-	-	2.4	2.8	3.4	4.7	5.3	-	-
		Throw Distance (2) (0.37m/s), m	-	-	2.0	2.4	2.7	3.8	4.7	-	-
		Face Velocity, m/s	-	-	2.5	3.1	3.7	4.9	6.2	-	-
		Total Pressure Loss, Pa	-	-	3.5	5.0	8.0	14	22	-	-
		Noise Rating (NR)	-	-	21	26	30	36	42	-	-
		Temperature Quotient (1,2)	-	-	0.12/0.18	0.11/0.15	0.07/0.11	0.04/0.06	-/0.04	-	-
		Induction Ratio (1,2)	-	-	13/9.5	14/11	19/14	27/23	-/27	-	-
300 x 450	0.135 (0.054)	Throw Distance (1) (0.37 m/s), m	-	-	2.2	2.5	3.0	4.0	5.0	-	-
		Throw Distance (2) (0.37m/s), m	-	-	1.6	2.0	2.5	3.2	4.0	-	-
		Face Velocity, m/s	-	-	2.1	2.6	3.1	4.1	5.1	-	-
		Total Pressure Loss, Pa	-	-	2.5	3.8	5.0	10	15	-	-
		Noise Rating (NR)	-	-	<20	23	25	33	38	-	-
		Temperature Quotient (1,2)	-	-	0.17/-	0.14/0.21	0.11/0.15	0.07/0.1	0.05/0.07	-	-
		Induction Ratio (1,2)	-	-	9/6	11/8.5	14/11	20/15	26/20	-	-
300 x 525	0.1575 (0.063)	Throw Distance (1) (0.37 m/s), m	-	-	-	2.6	3.2	4.3	5.0	10.5	-
		Throw Distance (2) (0.37m/s), m	-	-	-	1.6	2.0	2.7	3.5	6.5	-
		Face Velocity, m/s	-	-	-	2.2	2.6	3.5	4.4	8.8	-
		Total Pressure Loss, Pa	-	-	-	2.5	4.0	7.0	13	40	-
		Noise Rating (NR)	-	-	-	20	24	30	35	>50	-
		Temperature Quotient (1,2)	-	-	-	0.15/-	0.11/0.22	0.06/0.14	0.05/0.09	-	-
		Induction Ratio (1,2)	-	-	-	11/5.5	13/7.2	20/11	24/15	-	-

Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	NR25		NR35		NR40	NR45			
			200 56	250 70	400 112	500 140	600 168	800 224	1000 280	2000 560	2500 840
375 x 450	0.1688 (0.068)	Throw Distance (1) (0.37 m/s), m	-	-	-	2.3	2.8	3.8	4.5	9.2	-
		Throw Distance (2) (0.37m/s), m	-	-	-	1.8	2.3	3.2	3.8	7.2	-
		Face Velocity, m/s	-	-	-	2.0	2.5	3.3	4.1	8.2	-
		Total Pressure Loss, Pa	-	-	-	2.2	3.5	6.0	10	37	-
		Noise Rating (NR)	-	-	-	20	24	30	36	>50	-
		Temperature Quotient (1,2)	-	-	-	0.22/-	0.14/0.22	0.08/0.11	0.06/0.08	-	-
		Induction Ratio (1,2)	-	-	-	8/6.5	11/8	15/13	20/16	-	-
375 x 525	0.1969 (0.079)	Throw Distance (1) (0.37 m/s), m	-	-	-	2.6	3.6	4.5	9.0	11	-
		Throw Distance (2) (0.37m/s), m	-	-	-	1.9	2.7	3.4	6.5	8.0	-
		Face Velocity, m/s	-	-	-	2.1	2.8	3.5	7.0	8.8	-
		Total Pressure Loss, Pa	-	-	-	2.3	4.5	7.0	27	40	-
		Noise Rating (NR)	-	-	-	20	24	32	47	>50	-
		Temperature Quotient (1,2)	-	-	-	0.18/-	0.11/0.18	0.08/0.11	0.08/0.11	-	-
		Induction Ratio (1,2)	-	-	-	9/6.5	14/9.5	18/12.5	-	-	-

Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	NR25		NR35		NR40	NR45			
			200 56	250 70	400 112	500 140	600 168	800 224	1000 280	2000 560	2500 840
450 x 525	0.2363 (0.095)	Throw Distance (1) (0.37 m/s), m	-	-	-	-	-	2.9	4.0	7.5	9.8
		Throw Distance (2) (0.37m/s), m	-	-	-	-	-	2.7	3.5	6.5	8.0
		Face Velocity, m/s	-	-	-	-	-	2.3	2.9	5.8	7.3
		Total Pressure Loss, Pa	-	-	-	-	-	3.0	5.0	17	30
		Noise Rating (NR)	-	-	-	-	-	22	29	43	47
		Temperature Quotient (1,2)	-	-	-	-	-	0.17/0.22	0.11/0.13	-	-
		Induction Ratio (1,2)	-	-	-	-	-	9.5/8.5	14.5/12	-	-

Supply - 3 Way Square Diffuser



* Diffuser performance data factored in Coanda effect & fully opened Radial OBD conditions.

* The effective area given is to the best estimation & knowledge of Prudentaire's engineers at the point of entry.

* Neck size given are in Height x Length.

Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	NR25		NR35		NR40	NR45			
			200 56	250 70	400 112	500 140	600 168	800 224	1000 280	2000 560	2500 700
150 x 150	0.0225 (0.009)	Throw Distance (1) (0.30 m/s), m	3.4	4.2	-	-	-	-	-	-	-
		Throw Distance (2) (0.30 m/s), m	2.7	3.4	-	-	-	-	-	-	-
		Face Velocity, m/s	6.2	7.7	-	-	-	-	-	-	-
		Total Pressure Loss, Pa	23	32	-	-	-	-	-	-	-
		Noise Rating (NR)	35	41	-	-	-	-	-	-	-
		Temperature Quotient (1,2)	0.03/0.02	-/0.02	-	-	-	-	-	-	-
		Induction Ratio (1,2)	-	-	-	-	-	-	-	-	-
150 x 300	0.045 (0.018)	Throw Distance (1) (0.30 m/s), m	2.0	2.4	4.0	4.9	5.8	-	-	-	-
		Throw Distance (2) (0.30 m/s), m	2.6	3.3	5.5	6.5	8.0	-	-	-	-
		Face Velocity, m/s	3.1	3.9	6.2	7.7	9.3	-	-	-	-
		Total Pressure Loss, Pa	5.5	9.0	22	32	48	-	-	-	-
		Noise Rating (NR)	22	27	38	44	46	-	-	-	-
		Temperature Quotient (1,2)	0.08/0.05	0.06/0.04	0.025/-	0.018/-	-	-	-	-	-
		Induction Ratio (1,2)	16/22	22/27	-	-	-	-	-	-	-

TECHNICAL PERFORMANCE DATA



Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	NR25		NR35		NR40		NR45		
			200	250	400	500	600	800	1000	2000	2500
225 x 225	0.0506 (0.020)	Throw Distance (1) (0.30 m/s), m	2.3	2.7	4.5	5.6	6.5	-	-	-	-
		Throw Distance (2) (0.30 m/s), m	1.8	3.0	3.7	4.8	5.8	-	-	-	-
		Face Velocity, m/s	2.8	3.5	5.6	6.9	8.3	-	-	-	-
		Total Pressure Loss, Pa	4.5	7.0	18	27	38	-	-	-	-
		Noise Rating (NR)	21	26	37	42	45	-	-	-	-
		Temperature Quotient (1,2)	0.07/0.09	0.05/0.04	0.02/0.03	-/0.017	-	-	-	-	-
		Induction Ratio (1,2)	19/14	23/27	-	-	-	-	-	-	-
225 x 300	0.0675 (0.027)	Throw Distance (1) (0.30 m/s), m	1.8	2.4	3.6	4.5	5.5	7.0	-	-	-
		Throw Distance (2) (0.30 m/s), m	1.8	2.4	3.6	4.5	5.5	7.0	-	-	-
		Face Velocity, m/s	2.0	2.6	4.1	5.1	6.2	8.2	-	-	-
		Total Pressure Loss, Pa	2.3	4.0	10	13	22	36	-	-	-
		Noise Rating (NR)	<20	20	31	35	40	47	-	-	-
		Temperature Quotient (1,2)	0.13	0.08	0.045	0.028	-	-	-	-	-
		Induction Ratio (1,2)	11.5	17	26	-	-	-	-	-	-
225 x 375	0.0844 (0.034)	Throw Distance (1) (0.30 m/s), m	-	1.8	2.7	3.7	4.5	5.5	7.8	-	-
		Throw Distance (2) (0.30 m/s), m	-	2.4	3.5	4.5	5.0	6.5	9.0	-	-
		Face Velocity, m/s	-	2.0	3.3	4.1	4.9	6.5	8.2	-	-
		Total Pressure Loss, Pa	-	2.3	6.0	10	14	23	33	-	-
		Noise Rating (NR)	-	<20	26	30	35	42	47	-	-
		Temperature Quotient (1,2)	-	0.15/0.09	0.06/0.05	0.05/0.04	0.04/0.03	-	-	-	-
		Induction Ratio (1,2)	-	11/14.5	16/22	23/-	-	-	-	-	-

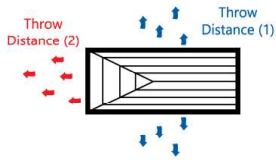
Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	NR25		NR35		NR40		NR45		
			300	375	400	500	600	800	1000	2000	2500
300 x 300	0.09 (0.036)	Throw Distance (1) (0.30 m/s), m	-	-	3.6	4.4	5.0	6.6	8.0	-	-
		Throw Distance (2) (0.30 m/s), m	-	-	2.6	3.5	4.0	5.5	6.7	-	-
		Face Velocity, m/s	-	-	3.1	3.9	4.6	6.2	7.7	-	-
		Total Pressure Loss, Pa	-	-	5.0	8.0	13	23	32	-	-
		Noise Rating (NR)	-	-	26	31	35	42	47	-	-
		Temperature Quotient (1,2)	-	-	0.06/0.07	0.04/0.05	0.03/0.05	-	-	-	-
		Induction Ratio (1,2)	-	-	22/14.5	28/23	-/26	-	-	-	-
300 x 375	0.1125 (0.045)	Throw Distance (1) (0.30 m/s), m	-	-	3.0	3.8	4.4	6.0	7.5	-	-
		Throw Distance (2) (0.30 m/s), m	-	-	2.3	3.5	4.1	5.5	6.5	-	-
		Face Velocity, m/s	-	-	2.5	3.1	3.7	4.9	6.2	-	-
		Total Pressure Loss, Pa	-	-	3.5	5.2	7.5	14	22	-	-
		Noise Rating (NR)	-	-	22	26	30	37	42	-	-
		Temperature Quotient (1,2)	-	-	0.08/0.15	0.06/0.07	0.05/0.06	-	-	-	-
		Induction Ratio (1,2)	-	-	15.5/10	22/19	27/23	-	-	-	-
300 x 450	0.135 (0.054)	Throw Distance (1) (0.30 m/s), m	-	-	2.5	3.2	3.7	5.0	6.2	-	-
		Throw Distance (2) (0.30 m/s), m	-	-	2.7	3.5	4.1	5.2	6.5	-	-
		Face Velocity, m/s	-	-	2.1	2.6	3.1	4.1	5.1	-	-
		Total Pressure Loss, Pa	-	-	2.5	4.0	5.0	10	15	-	-
		Noise Rating (NR)	-	-	<20	23	27	34	37	-	-
		Temperature Quotient (1,2)	-	-	0.15/0.12	0.1/0.08	0.07/0.06	0.05/-	-	-	-
		Induction Ratio (1,2)	-	-	11/12	14/17	18/20	26/-	-	-	-

Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	NR25		NR35		NR40		NR45		
			375	450	400	500	600	800	1000	2000	2500
375 x 375	0.1406 (0.056)	Throw Distance (1) (0.30 m/s), m	-	-	1.8	3.5	4.0	5.5	7.0	13	-
		Throw Distance (2) (0.30 m/s), m	-	-	1.3	2.7	3.4	4.5	5.5	11	-
		Face Velocity, m/s	-	-	2.0	2.5	3.0	4.0	5.0	9.9	-
		Total Pressure Loss, Pa	-	-	2.2	3.5	5.0	9.0	14	50	-
		Noise Rating (NR)	-	-	<20	23	27	34	38	>50	-
		Temperature Quotient (1,2)	-	-	0.24/-	0.08/0.12	0.06/0.09	-/0.05	-	-	-
		Induction Ratio (1,2)	-	-	7.5/4.5	16.5/13	19/16	-/23	-	-	-
375 x 450	0.1688 (0.068)	Throw Distance (1) (0.30 m/s), m	-	-	-	3.0	3.7	4.7	6.1	12	-
		Throw Distance (2) (0.30 m/s), m	-	-	-	2.7	3.5	4.5	5.6	11	-
		Face Velocity, m/s	-	-	-	2.0	2.5	3.3	4.1	8.2	-
		Total Pressure Loss, Pa	-	-	-	2.3	3.5	6.0	10	35	-
		Noise Rating (NR)	-	-	-	<20	23	30	34	50	-
		Temperature Quotient (1,2)	-	-	-	0.12/0.14	0.08/0.09	0.05/0.05	-	-	-
		Induction Ratio (1,2)	-	-	-	12.5/11	17/15	22/20	-	-	-

Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	NR25		NR35		NR40		NR45		
			450	500	400	500	600	800	1000	2000	2500
450 x 450	0.2025 (0.081)	Throw Distance (1) (0.30 m/s), m	-	-	-	-	3.5	4.5	5.5	11	14
		Throw Distance (2) (0.30 m/s), m	-	-	-	-	2.6	3.5	4.4	8.7	11
		Face Velocity, m/s	-	-	-	-	2.1	2.7	3.4	6.9	8.6
		Total Pressure Loss, Pa	-	-	-	-	2.4	4.5	6.5	26	36
		Noise Rating (NR)	-	-	-	-	20	26	31	45	>50
		Temperature Quotient (1,2)	-	-	-	-	0.11/0.19	0.07/0.12	-/0.07	-	-
		Induction Ratio (1,2)	-	-	-	-	13/9	18/14	-/18	-	-

TECHNICAL PERFORMANCE DATA

Supply - 3 Way Rectangular Diffuser



* Diffuser performance data factored in Coanda effect & fully opened Radial OBD conditions.

* The effective area given is to the best estimation & knowledge of Prudentaire's engineers at the point of entry.

* Neck size given are in Height x Length.



Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	<div style="display: flex; justify-content: space-around; font-size: small;"> NR25 NR35 NR40 NR45 </div>									
			200	250	400	500	600	800	1000	2000	2500	
150 x 225	0.0338 (0.014)	Throw Distance (1) (0.30 m/s), m	2.7	3.5	5.5	7.0	-	-	-	-	-	-
		Throw Distance (2) (0.30 m/s), m	1.8	2.4	3.7	4.8	-	-	-	-	-	-
		Face Velocity, m/s	4.0	5.0	7.9	9.9	-	-	-	-	-	-
		Total Pressure Loss, Pa	9.0	14	32	52	-	-	-	-	-	-
		Noise Rating (NR)	27	33	44	48	-	-	-	-	-	-
		Temperature Quotient (1,2)	0.04/0.08	0.03/0.05	-	-	-	-	-	-	-	-
		Induction Ratio (1,2)	27/17	-/24	-	-	-	-	-	-	-	-
150 x 300	0.045 (0.018)	Throw Distance (1) (0.30 m/s), m	2.6	3.5	5.2	6.2	7.6	-	-	-	-	
		Throw Distance (2) (0.30 m/s), m	<1.5	1.8	3.0	3.7	4.3	-	-	-	-	
		Face Velocity, m/s	3.1	3.9	6.2	7.7	9.3	-	-	-	-	
		Total Pressure Loss, Pa	5.5	9.0	22	32	48	-	-	-	-	
		Noise Rating (NR)	23	27	38	44	46	-	-	-	-	
		Temperature Quotient (1,2)	0.05/-	0.04/0.09	-/0.04	-/0.03	-	-	-	-	-	
		Induction Ratio (1,2)	22/-	27/14	-/26	-	-	-	-	-	-	

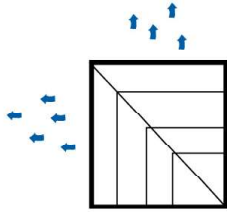
Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	<div style="display: flex; justify-content: space-around; font-size: small;"> NR25 NR35 NR40 NR45 </div>									
			200	250	400	500	600	800	1000	2000	2500	
225 x 300	0.0675 (0.027)	Throw Distance (1) (0.30 m/s), m	2.0	2.6	4.1	5.0	6.1	8.0	-	-	-	
		Throw Distance (2) (0.30 m/s), m	<1.5	1.7	2.7	3.4	4.2	5.6	-	-	-	
		Face Velocity, m/s	2.0	2.6	4.1	5.1	6.2	8.2	-	-	-	
		Total Pressure Loss, Pa	2.3	4.0	10	13	22	36	-	-	-	
		Noise Rating (NR)	<20	20	31	35	40	47	-	-	-	
		Temperature Quotient (1,2)	0.11/-	0.07/0.14	0.03/0.07	-/0.05	-	-	-	-	-	
		Induction Ratio (1,2)	12.5/-	17/10	-/17	-/26	-	-	-	-	-	
225 x 375	0.0844 (0.034)	Throw Distance (1) (0.30 m/s), m	-	2.3	3.7	4.5	5.3	7.0	9.0	-	-	
		Throw Distance (2) (0.30 m/s), m	-	<1.5	2.6	2.7	3.4	4.3	5.7	-	-	
		Face Velocity, m/s	-	2.0	3.3	4.1	4.9	6.5	8.2	-	-	
		Total Pressure Loss, Pa	-	2.3	6.0	10	14	23	33	-	-	
		Noise Rating (NR)	-	<20	26	30	35	42	47	-	-	
		Temperature Quotient (1,2)	-	0.12/-	0.05/0.09	0.04/0.09	-/0.05	-/0.035	-	-	-	
		Induction Ratio (1,2)	-	13/-	24/15	-/16	-/23	-/30	-	-	-	
225 x 525	0.1181 (0.046)	Throw Distance (1) (0.30 m/s), m	-	-	3.2	4.2	4.8	6.2	8.0	-	-	
		Throw Distance (2) (0.30 m/s), m	-	-	1.6	2.0	2.4	3.2	4.0	-	-	
		Face Velocity, m/s	-	-	2.4	3.0	3.6	4.8	6.0	-	-	
		Total Pressure Loss, Pa	-	-	3.4	7.0	7.5	13	23	-	-	
		Noise Rating (NR)	-	-	22	26	30	37	42	-	-	
		Temperature Quotient (1,2)	-	-	0.08/0.25	0.05/0.17	0.04/0.13	-/0.08	-/0.05	-	-	
		Induction Ratio (1,2)	-	-	17/7	26/9.5	27/12	-/16.5	23	-	-	

Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	<div style="display: flex; justify-content: space-around; font-size: small;"> NR25 NR35 NR40 NR45 </div>									
			200	250	400	500	600	800	1000	2000	2500	
300 x 375	0.1125 (0.046)	Throw Distance (1) (0.30 m/s), m	-	-	2.9	3.9	4.4	6.0	7.2	-	-	
		Throw Distance (2) (0.30 m/s), m	-	-	2.2	2.7	3.2	4.2	5.5	-	-	
		Face Velocity, m/s	-	-	2.4	3.0	3.6	4.8	6.0	-	-	
		Total Pressure Loss, Pa	-	-	3.4	7.0	7.5	13	23	-	-	
		Noise Rating (NR)	-	-	22	26	30	37	42	-	-	
		Temperature Quotient (1,2)	-	-	0.09/0.16	0.06/0.11	0.04/0.08	-/0.05	-	-	-	
		Induction Ratio (1,2)	-	-	15.5/10	23/16	26/17	-/24	-	-	-	
300 x 450	0.135 (0.054)	Throw Distance (1) (0.30 m/s), m	-	-	2.8	3.6	4.4	5.8	7.2	-	-	
		Throw Distance (2) (0.30 m/s), m	-	-	1.8	2.3	2.6	3.8	4.7	-	-	
		Face Velocity, m/s	-	-	2.1	2.6	3.1	4.1	5.1	-	-	
		Total Pressure Loss, Pa	-	-	2.5	4.0	5.0	9.0	15	-	-	
		Noise Rating (NR)	-	-	<20	23	27	34	38	-	-	
		Temperature Quotient (1,2)	-	-	0.12/0.22	0.08/0.17	0.06/0.14	-/0.07	-/0.05	-	-	
		Induction Ratio (1,2)	-	-	13/7.5	18/9.5	23/11	-/19	-/24	-	-	

Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	<div style="display: flex; justify-content: space-around; font-size: small;"> NR25 NR35 </div>									
			200	250	400	500	600	800	1000	2000	2500	
375 x 450	0.1688 (0.068)	Throw Distance (1) (0.30 m/s), m	-	-	-	3.0	3.8	5.0	6.1	13	-	
		Throw Distance (2) (0.30 m/s), m	-	-	-	2.3	2.8	3.8	4.7	9.0	-	
		Face Velocity, m/s	-	-	-	2.0	2.5	3.3	4.1	8.2	-	
		Total Pressure Loss, Pa	-	-	-	2.2	3.5	6.0	9.0	35	-	
		Noise Rating (NR)	-	-	-	<20	24	30	35	50	-	
		Temperature Quotient (1,2)	-	-	-	0.12/0.18	0.08/0.12	0.05/0.1	-/0.06	-	-	
		Induction Ratio (1,2)	-	-	-	13/7.7	17/11.5	23/16.5	-/22	-	-	

Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	<div style="display: flex; justify-content: space-around; font-size: small;"> NR25 NR35 NR45 </div>									
			200	250	400	500	600	800	1000	2000	2500	
450 x 525	0.2363 (0.095)	Throw Distance (1) (0.30 m/s), m	-	-	-	-	-	4.0	5.6	10	14	
		Throw Distance (2) (0.30 m/s), m	-	-	-	-	-	3.0	4.1	7.5	10	
		Face Velocity, m/s	-	-	-	-	-	2.3	3.0	5.8	7.3	
		Total Pressure Loss, Pa	-	-	-	-	-	3.0	5.0	17	27	
		Noise Rating (NR)	-	-	-	-	-	24	29	44	50	
		Temperature Quotient (1,2)	-	-	-	-	-	0.07/0.12	-/0.06	-	-	
		Induction Ratio (1,2)	-	-	-	-	-	17/12.5	-/18	-	-	

Supply - 2 Way Square Diffuser (Type A)



* Diffuser performance data factored in Coanda effect & fully opened Radial OBD conditions.

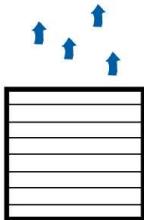
* The effective area given is to the best estimation & knowledge of Prudentaire's engineers at the point of entry.



NR25 NR35 NR45

Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	100	150	200	250	500	800	1000	1500	2000
			28	42	56	70	140	224	280	420	560
150 x 225	0.0225 (0.008)	Throw Distance (0.25 m/s), m	2.6	4.0	5.2	6.5	-	-	-	-	-
		Face Velocity, m/s	3.5	5.2	6.9	8.7	-	-	-	-	-
		Total Pressure Loss, Pa	7.0	16	27	37	-	-	-	-	-
		Noise Rating (NR)	22	31	37	42	-	-	-	-	-
		Temperature Quotient	<0.015	<0.015	<0.015	<0.015	-	-	-	-	-
		Induction Ratio	>30	>30	>30	>30	-	-	-	-	-
225 x 225	0.0506 (0.018)	Throw Distance (0.25 m/s), m	-	2.6	3.5	4.5	8.5	-	-	-	-
		Face Velocity, m/s	-	2.3	3.1	3.9	7.7	-	-	-	-
		Total Pressure Loss, Pa	-	3.0	5.5	8.0	30	-	-	-	-
		Noise Rating (NR)	-	<20	23	28	44	-	-	-	-
		Temperature Quotient	-	0.052	0.03	0.022	>30	-	-	-	-
		Induction Ratio	-	23	>30	>30	>30	-	-	-	-
300 x 300	0.09 (0.032)	Throw Distance (0.25 m/s), m	-	-	-	3.2	6.5	10.5	13	-	-
		Face Velocity, m/s	-	-	-	2.2	4.3	6.9	8.7	-	-
		Total Pressure Loss, Pa	-	-	-	2.5	10	27	38	-	-
		Noise Rating (NR)	-	-	-	<20	32	43	49	-	-
		Temperature Quotient	-	-	-	0.055	-	-	-	-	-
		Induction Ratio	-	-	-	21	-	-	-	-	-
375 x 375	0.141 (0.050)	Throw Distance (0.25 m/s), m	-	-	-	-	5.2	8.2	11	16	-
		Face Velocity, m/s	-	-	-	-	2.8	4.4	5.6	8.3	-
		Total Pressure Loss, Pa	-	-	-	-	4.5	13	17	33	-
		Noise Rating (NR)	-	-	-	-	25	36	41	50	-
		Temperature Quotient	-	-	-	-	-	-	-	-	-
		Induction Ratio	-	-	-	-	-	-	-	-	-
450 x 450	0.2025 (0.071)	Throw Distance (0.25 m/s), m	-	-	-	-	4.5	7.0	9.0	13	17
		Face Velocity, m/s	-	-	-	-	2.0	3.1	3.9	5.9	7.8
		Total Pressure Loss, Pa	-	-	-	-	2.2	5.5	9.0	20	30
		Noise Rating (NR)	-	-	-	-	<20	28	34	43	50
		Temperature Quotient	-	-	-	-	0.065	-	-	-	-
		Induction Ratio	-	-	-	-	19	-	-	-	-
525 x 525	0.276 (0.100)	Throw Distance (0.25 m/s), m	-	-	-	-	-	6.2	7.5	12	14.5
		Face Velocity, m/s	-	-	-	-	-	2.2	2.8	4.2	5.6
		Total Pressure Loss, Pa	-	-	-	-	-	2.7	4.5	10	16
		Noise Rating (NR)	-	-	-	-	-	23	28	37	43
		Temperature Quotient	-	-	-	-	-	-	-	-	-
		Induction Ratio	-	-	-	-	-	-	-	-	-

Supply - 1 Way Square Diffuser (Type B)



* Diffuser performance data factored in Coanda effect & fully opened Radial OBD conditions.

* The effective area given is to the best estimation & knowledge of Prudentaire's engineers at the point of entry.



NR25 NR35 NR40 NR45

Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	100	150	200	250	500	800	1000	1500	2000
			28	42	56	70	140	224	280	420	560
150 x 225	0.0338 (0.012)	Throw Distance (0.25 m/s), m	2.1	3.2	4.2	5.2	-	-	-	-	-
		Face Velocity, m/s	2.3	3.5	4.6	5.8	-	-	-	-	-
		Total Pressure Loss, Pa	3.0	7.0	12	17	-	-	-	-	-
		Noise Rating (NR)	<20	24	30	35	-	-	-	-	-
		Temperature Quotient	0.05	0.022	0.015	-	-	-	-	-	-
		Induction Ratio	24	-	-	-	-	-	-	-	-
150 x 300	0.045 (0.016)	Throw Distance (0.25 m/s), m	-	2.7	3.5	4.5	8.8	-	-	-	-
		Face Velocity, m/s	-	2.6	3.5	4.3	8.7	-	-	-	-
		Total Pressure Loss, Pa	-	4.0	7.0	12	38	-	-	-	-
		Noise Rating (NR)	-	<20	24	28	45	-	-	-	-
		Temperature Quotient	-	0.04	0.017	-	-	-	-	-	-
		Induction Ratio	-	27	-	-	-	-	-	-	-
150 x 375	0.0563 (0.020)	Throw Distance (0.25 m/s), m	-	2.5	3.3	4.0	8.2	-	-	-	-
		Face Velocity, m/s	-	2.0	2.8	3.5	6.9	-	-	-	-
		Total Pressure Loss, Pa	-	2.3	4.5	7.0	25	-	-	-	-
		Noise Rating (NR)	-	<20	21	25	42	-	-	-	-
		Temperature Quotient	-	0.06	0.037	0.025	-	-	-	-	-
		Induction Ratio	-	21	27	-	-	-	-	-	-
225 x 300	0.0675 (0.024)	Throw Distance (0.25 m/s), m	-	-	3.0	3.8	7.5	12	-	-	-
		Face Velocity, m/s	-	-	2.3	2.9	5.8	9.3	-	-	-
		Total Pressure Loss, Pa	-	-	3.2	5.0	17	45	-	-	-
		Noise Rating (NR)	-	-	<20	22	38	48	-	-	-
		Temperature Quotient	-	-	0.05	0.03	-	-	-	-	-
		Induction Ratio	-	-	13	-	-	-	-	-	-
225 x 450	0.09 (0.036)	Throw Distance (0.25 m/s), m	-	-	-	3.2	6.0	9.7	13	-	-
		Face Velocity, m/s	-	-	-	1.9	3.9	6.2	7.7	-	-
		Total Pressure Loss, Pa	-	-	-	2.0	8.0	22	30	-	-
		Noise Rating (NR)	-	-	-	<20	32	43	46	-	-
		Temperature Quotient	-	-	-	0.065	-	-	-	-	-
		Induction Ratio	-	-	-	19	-	-	-	-	-
225 x 525	0.1181 (0.041)	Throw Distance (0.25 m/s), m	-	-	-	2.8	5.7	9.0	12	-	-
		Face Velocity, m/s	-	-	-	1.7	3.4	5.4	6.8	-	-
		Total Pressure Loss, Pa	-	-	-	<2	7.0	16	25	-	-
		Noise Rating (NR)	-	-	-	<20	27	40	44	-	-
		Temperature Quotient	-	-	-	0.09	-	-	-	-	-
		Induction Ratio	-	-	-	15	-	-	-	-	-

TECHNICAL PERFORMANCE DATA

Supply - 2 Way Square Diffuser (Type B)

						NR25		NR45			
300 x 300	0.09 (0.032)	Throw Distance (0.25 m/s), m	-	-	-	3.5	6.5	11	13	-	-
		Face Velocity, m/s	-	-	-	2.2	4.3	6.9	8.7	-	-
		Total Pressure Loss, Pa	-	-	-	3.5	10	27	38	-	-
		Noise Rating (NR)	-	-	-	<20	34	44	49	-	-
		Temperature Quotient	-	-	-	0.05	-	-	-	-	-
Induction Ratio	-	-	-	24	-	-	-	-	-		
300 x 375	0.1125 (0.039)	Throw Distance (0.25 m/s), m	-	-	-	2.8	5.7	9.0	12	-	-
		Face Velocity, m/s	-	-	-	1.8	3.6	5.7	7.2	-	-
		Total Pressure Loss, Pa	-	-	-	<2	7.0	18	27	-	-
		Noise Rating (NR)	-	-	-	<20	27	40	44	-	-
		Temperature Quotient	-	-	-	0.09	-	-	-	-	-
Induction Ratio	-	-	-	15	-	-	-	-	-		
300 x 450	0.135 (0.047)	Throw Distance (0.25 m/s), m	-	-	-	-	5.3	8.3	11	16	-
		Face Velocity, m/s	-	-	-	-	3.0	4.7	5.9	8.9	-
		Total Pressure Loss, Pa	-	-	-	-	5.0	13	19	40	-
		Noise Rating (NR)	-	-	-	-	25	36	41	50	-
		Temperature Quotient	-	-	-	-	-	-	-	-	-
Induction Ratio	-	-	-	-	-	-	-	-	-		

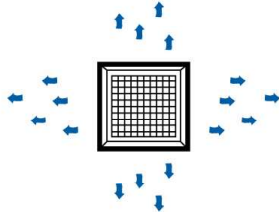
						NR25		NR45			
375 x 375	0.1406 (0.049)	Throw Distance (0.25 m/s), m	-	-	-	-	5.3	8.3	11	16	-
		Face Velocity, m/s	-	-	-	-	3.0	4.7	5.9	8.9	-
		Total Pressure Loss, Pa	-	-	-	-	5.0	13	19	40	-
		Noise Rating (NR)	-	-	-	-	25	36	41	50	-
		Temperature Quotient	-	-	-	-	-	-	-	-	-
Induction Ratio	-	-	-	-	-	-	-	-	-		

						NR25		NR35		NR45	
450 x 450	0.2025 (0.071)	Throw Distance (0.25 m/s), m	-	-	-	-	4.5	7.0	8.2	13	17
		Face Velocity, m/s	-	-	-	-	2.0	3.1	3.9	5.9	7.8
		Total Pressure Loss, Pa	-	-	-	-	2.2	5.5	9.0	20	30
		Noise Rating (NR)	-	-	-	-	<20	28	33	42	49
		Temperature Quotient	-	-	-	-	0.065	-	-	-	-
Induction Ratio	-	-	-	-	19	-	-	-	-		

						NR25		NR35		NR45	
525 x 525	0.2756 (0.097)	Throw Distance (0.25 m/s), m	-	-	-	-	-	6.0	7.8	12	15
		Face Velocity, m/s	-	-	-	-	-	2.3	2.9	4.3	5.7
		Total Pressure Loss, Pa	-	-	-	-	-	3.0	5.0	12	17
		Noise Rating (NR)	-	-	-	-	-	24	27	36	45
		Temperature Quotient	-	-	-	-	-	-	-	-	-
Induction Ratio	-	-	-	-	-	-	-	-	-		

TECHNICAL PERFORMANCE DATA

Supply - DDCD Diffuser



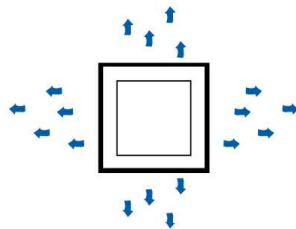
* Diffuser performance data factored in Coanda effect & fully opened Radial OBD conditions.

* The effective area given is to the best estimation & knowledge of Prudentaire's engineers at the point of entry.



Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	NR25		NR35		NR40		NR45		
			110	165	220	275	550	880	1100	2200	3300
150 x 150	0.0225 (0.010)	Throw Distance (0.37 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	31 1.2 3.0 5.0 20 0.12 13	46 1.8 4.6 13 30 0.05 23	62 2.4 6.2 22 36 0.027 >30	77 3.0 7.7 32 42 0.022 >30	154 -	246 -	308 -	616 -	924 -
225 x 225	0.0506 (0.022)	Throw Distance (0.37 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	-	1.2 2.1 2.5 <20 -	1.6 2.8 4.7 22 11	2.1 3.5 7.0 26 16	4.0 6.9 26 42 >30	-	-	-	-
300 x 300	0.09 (0.041)	Throw Distance (0.37 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	-	-	1.2 1.5 2.2 32 0.07 7.5	1.5 1.9 8.2 32 0.07 5.0	3.0 3.9 22 42 0.035 18	4.8 6.2 32 47 >30	5.8 7.7 32 47 <0.03	-	-
375 x 375	0.141 (0.064)	Throw Distance (0.37 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	-	-	-	1.3 1.2 3.5 24 0.14 4.0	2.4 2.5 9.0 34 0.065 11	3.9 4.0 14 38 0.045 20	4.8 5.0 14 38 0.045 25	9.0 9.9 55 >50	-
450 x 450	0.2025 (0.089)	Throw Distance (0.37 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	-	-	-	-	2.1 1.7 2.0 4.2 27 6.5	3.5 2.7 7.0 32 0.11 13	4.0 3.4 7.0 27 0.09 16	8.0 6.9 47 32 -	-
525 x 525	0.276 (0.121)	Throw Distance (0.37 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	-	-	-	-	1.8 1.3 2.2 2.6 0.23 2.7	2.7 2.0 3.5 26 0.15 7.5	3.5 5.1 15 43 -	7.0 5.1 32 >50	10 7.6

Supply - CDP Diffuser



* Diffuser performance data factored in Coanda effect & fully opened Radial OBD conditions.

* The effective area given is to the best estimation & knowledge of Prudentaire's engineers at the point of entry.



Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	NR25		NR35		500	800	1000	1500	2000
			100	150	200	300					
350 x 350	0.1225 (0.0530)	Throw Distance (0.37 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	28 3.6 2.3 8 36 -	42 3.9 2.5 9 37 -	56 4.2 2.7 10 38 -	83 -	139 -	224 -	280 -	417 -	556 -
400 x 400	0.16 (0.0692)	Throw Distance (0.37 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	-	-	3.2 2.1 8 30 -	3.7 2.4 9 32 -	4.5 3.0 11 35 -	3.8 4.0 16 44 -	-	-	-
450 x 450	0.2025 (0.0876)	Throw Distance (0.37 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	-	-	-	-	3.6 2.4 9 28 -	4.6 3.2 13 35 -	5.3 3.7 15 40 -	7.1 4.9 21 45 -	-
500 x 500	0.25 (0.1081)	Throw Distance (0.37 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	-	-	-	-	-	3.7 2.6 11 28 -	4.3 3.0 12 32 -	5.8 4.0 17 37 -	7.1 5.0 22 45 -
550 x 550	0.3025 (0.1308)	Throw Distance (0.37 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	-	-	-	-	-	3.1 2.1 9 23 -	3.6 2.5 10 27 -	4.8 3.3 14 30 -	5.9 4.1 18 37 -
600 x 600	0.36 (0.1557)	Throw Distance (0.37 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	-	-	-	-	-	2.1 1.5 6 16 -	2.4 1.7 7 18 -	3.3 2.3 10 20 -	4.1 2.8 13 25 -

ALUMINIUM CEILING DIFFUSERS TECHNICAL SPECIFICATION

Frame Construction

1. Frame to be in extruded aluminium. Frame thickness should be in minimum 1.2mm thick, unless otherwise stated.
2. The margin to be in 75mm from the neck height to the edge.
3. Frame height to be in 25mm.
4. The corner of the frame should be pressed with a 90° corner piece to ensure the frames are in 90°.
5. Core to be able to remove from the frame to adjust the damper.

Core Construction

1. Vanes to be in extruded aluminium.
2. Vanes to be in 1.2mm thick. 6 layer of vanes with fixed pattern for directional air distribution, unless otherwise stated.

Finishing

1. Finishing should be in powder coated RAL 9010 SG white matt, unless otherwise stated.

Performance

1. Free area of the grill to be in 40%.
2. Fixed pattern multi-vanes for directional air distribution.
3. Ceiling Diffusers are designed to be ceiling mounted, square opposed blade damper or round duct connection with damper should to be installed at the neck of the diffuser for volume control purpose, unless otherwise stated.

GALVANIZED STEEL CEILING DIFFUSERS TECHNICAL SPECIFICATION

Frame Construction

1. Frame to be in galvanized steel. Frame thickness should be in minimum 0.6mm thick, unless otherwise stated.
2. The margin to be in 75mm from the neck height to the edge.
3. Frame height to be in 50mm.
4. Core to be able to remove from the frame to adjust the damper.

Core Construction

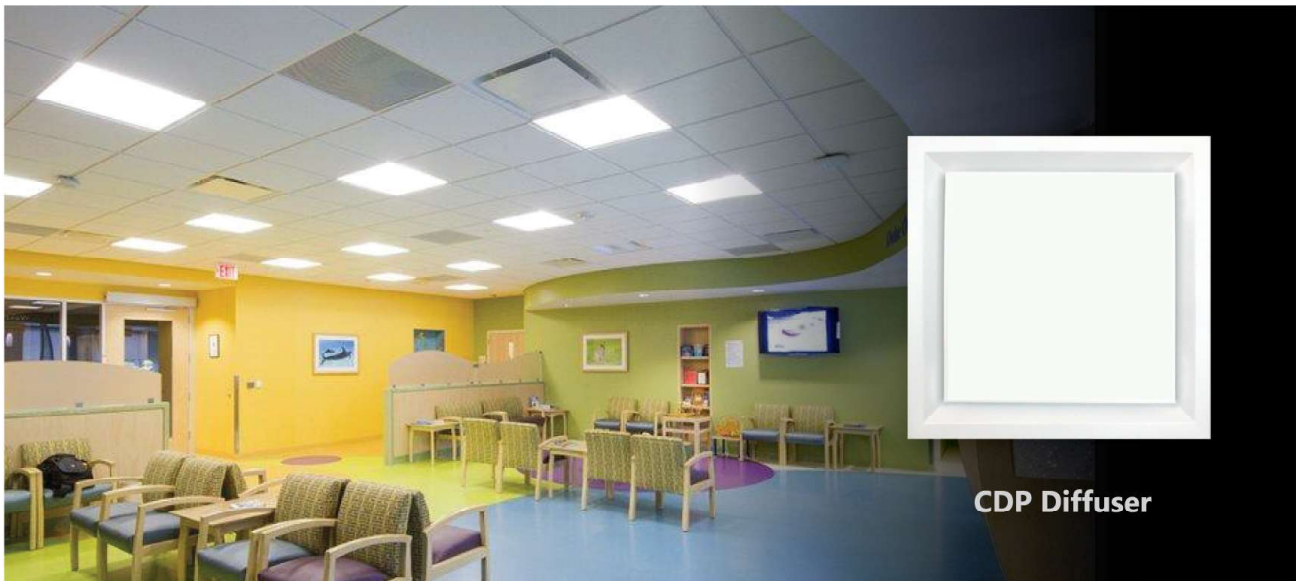
1. Vanes to be in galvanized steel.
2. Vanes to be in 0.6mm thick. 6 layer of vanes with fixed pattern for directional air distribution, unless otherwise stated.

Finishing

1. Finishing should be in powder coated RAL 9010 SG white matt, unless otherwise stated.

Performance

1. Free area of the grill to be in 40%.
2. Fixed pattern multi-vanes for directional air distribution.
3. Ceiling Diffusers are designed to be ceiling mounted, square opposed blade damper or round duct connection with damper should to be installed at the neck of the diffuser for volume control purpose, unless otherwise stated.



DIFFUSER + ACCESSORIES COMBINATION





CD | Ceiling Diffuser



Products Range

- Grilles 
- Diffusers  ◀
- Dampers 
- Fire & Smoke Protection 
- VAV 
- Others 
- Accessories 



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