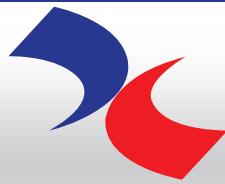


PRUDENTAiRE®

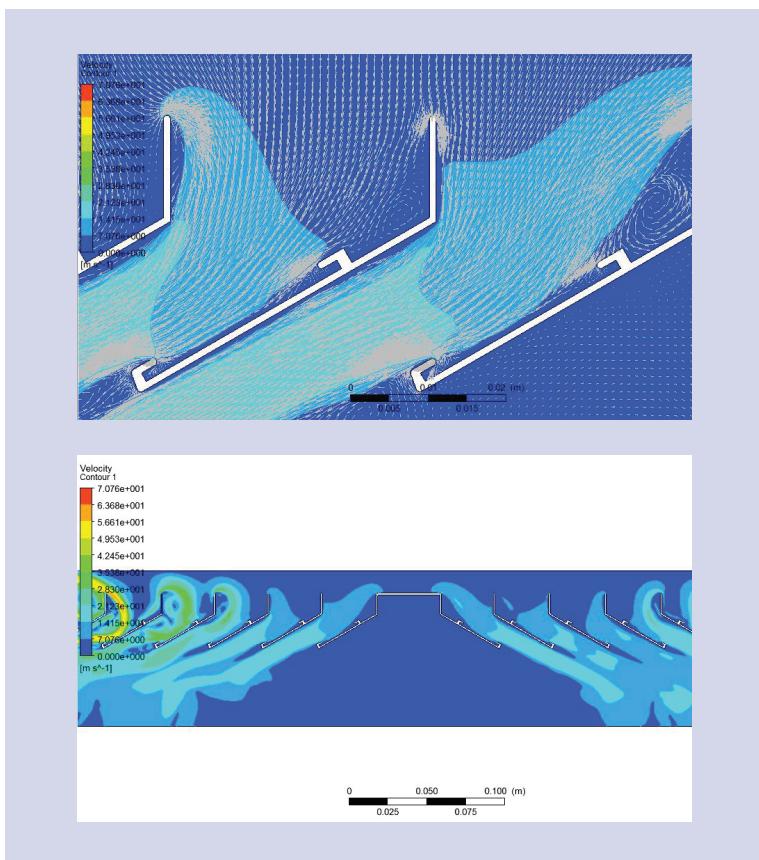
CEILING DIFFUSER



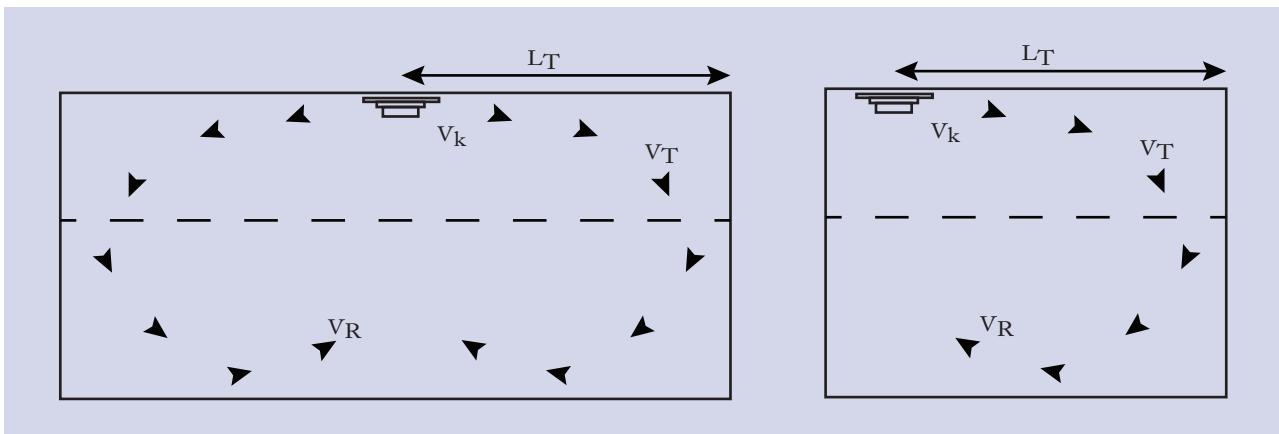
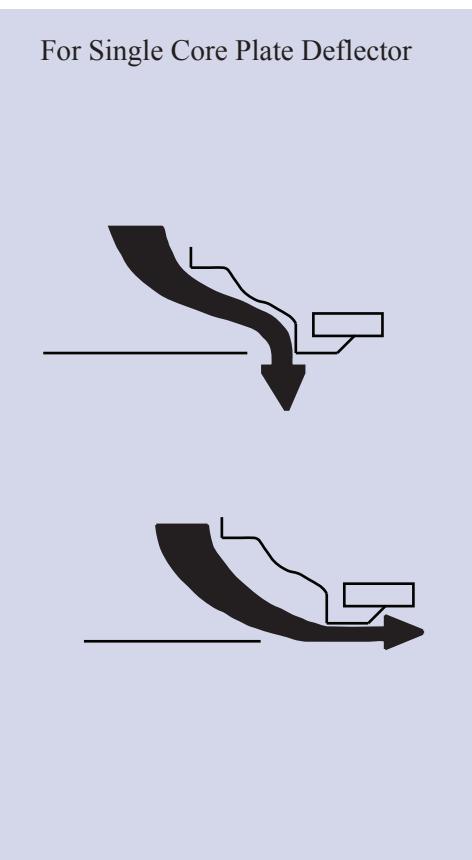
DESCRIPTION . ILLUSTRATIONS

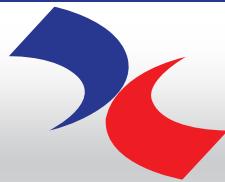
With wide range of flow deflection designs, Ceiling Diffusers (CD/DDCD/CDP 500-6000 series) are capable of providing excellent air distribution (horizontal/angled/vertical throw) for a wide range of operating conditions. By arranging blade vanes in pre-determine orientation, ceiling diffuser is able 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 700 series) is able to provide flexible direction of air distribution and yet maintaining superb horizontal distribution (for individual cooling and conventional uniform zone cooling).



For Single Core Plate Deflector





PRUDENTAIRE®

CEILING DIFFUSERS
CDA/S 500-6000 SERIES
DDCDS 700 SERIES
CDPA/S 800 SERIES



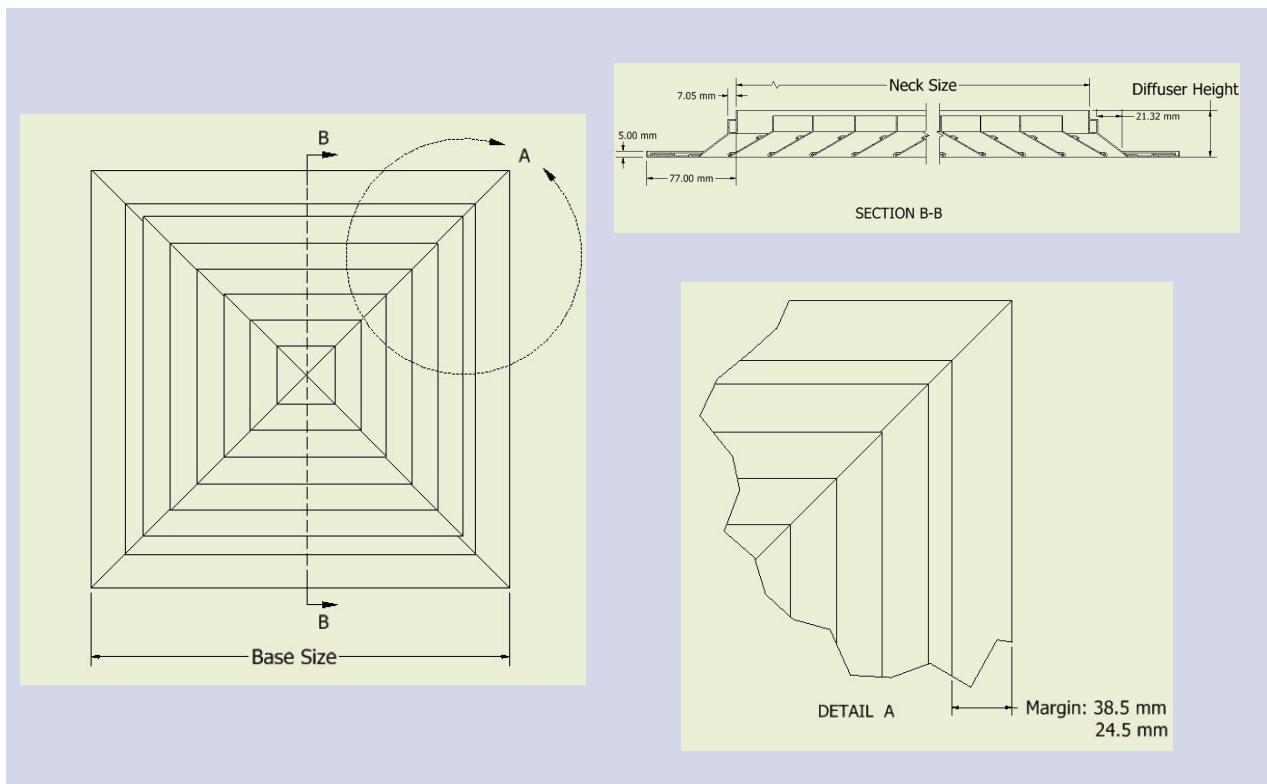
CONSTRUCTION

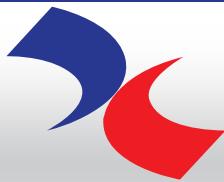
- . 1-4 way flow directions
- . Adjustable throw directions (Plate deflector)
- . Customizable throw (Horizontal/Angled, Upon request)
- . Removable center cores (Upon request)
- . Highly customizable designs



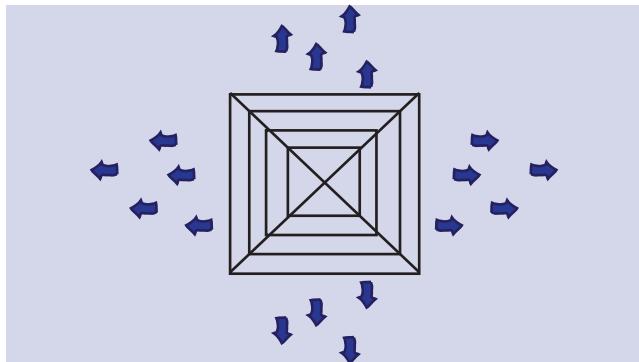
MATERIALS

- . Frame: 1.2 mm extruded aluminium
0.6 mm galvanized steel
Stainless steel (Upon request)
- . Vanes: 1.2 mm extruded aluminium
0.5 mm galvanized steel
Stainless steel (Upon request)





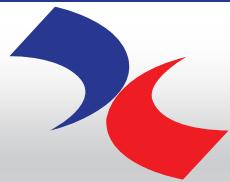
TECHNICAL PERFORMANCE . SUPPLY. 4-WAY SQ DIFFUSER



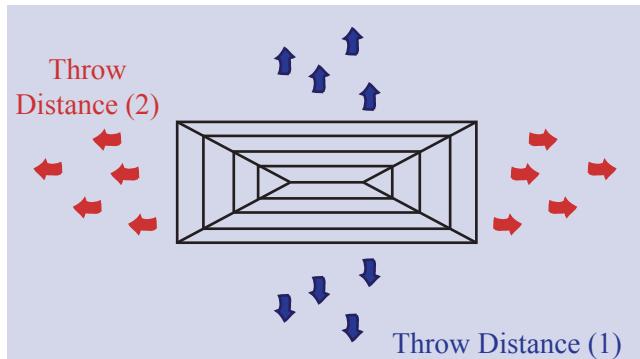
* Diffuser performance data factored in Coanda effect & fully opened Radial OBD conditions.

* 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	NR 25		NR 35		NR 40		NR 45		
			100 28	150 42	200 56	250 70	500 140	800 224	1000 280	2000 560	3000 840
150 x 150	0.0225 (0.009)	Throw Distance (0.37 m/s), m	1.2	1.8	2.4	3.0	-	-	-	-	-
		Face Velocity, m/s	3.0	4.6	6.2	7.7	-	-	-	-	-
		Total Pressure Loss, Pa	5.0	13	22	32	-	-	-	-	-
		Noise Rating (NR)	20	30	36	42	-	-	-	-	-
		Temperature Quotient	0.12	0.05	0.027	0.022	-	-	-	-	-
		Induction Ratio	13	23	>30	>30	-	-	-	-	-
225 x 225	0.0506 (0.02)	Throw Distance (0.37 m/s), m	-	1.2	1.6	2.1	4.0	-	-	-	-
		Face Velocity, m/s	-	2.1	2.8	3.5	6.9	-	-	-	-
		Total Pressure Loss, Pa	-	2.5	4.7	7.0	26	-	-	-	-
		Noise Rating (NR)	-	<20	22	26	42	-	-	-	-
		Temperature Quotient	-	0.23	0.13	0.08	0.025	-	-	-	-
		Induction Ratio	-	8.0	11	16	>30	-	-	-	-
300 x 300	0.09 (0.036)	Throw Distance (0.37 m/s), m	-	-	1.2	1.5	3.0	4.8	5.8	-	-
		Face Velocity, m/s	-	-	1.5	1.9	3.9	6.2	7.7	-	-
		Total Pressure Loss, Pa	-	-	<2.0	2.2	8.2	22	32	-	-
		Noise Rating (NR)	-	-	<20	<20	32	42	47	-	-
		Temperature Quotient	-	-	>0.25	0.23	0.07	0.035	<0.03	-	-
		Induction Ratio	-	-	5.0	7.5	18	>30	>30	-	-
375 x 375	0.141 (0.056)	Throw Distance (0.37 m/s), m	-	-	-	1.3	2.4	3.9	4.8	9.0	-
		Face Velocity, m/s	-	-	-	1.2	2.5	4.0	5.0	9.9	-
		Total Pressure Loss, Pa	-	-	-	<2.0	3.5	9.0	14	55	-
		Noise Rating (NR)	-	-	-	<20	24	34	38	>50	-
		Temperature Quotient	-	-	-	>0.25	0.14	0.065	0.045	-	-
		Induction Ratio	-	-	-	4.0	11	20	25	-	-
450 x 450	0.2025 (0.081)	Throw Distance (0.37 m/s), m	-	-	-	-	2.1	3.5	4.0	8.0	-
		Face Velocity, m/s	-	-	-	-	1.7	2.7	3.4	6.9	-
		Total Pressure Loss, Pa	-	-	-	-	<2.0	4.2	7.0	27	-
		Noise Rating (NR)	-	-	-	-	<20	27	32	47	-
		Temperature Quotient	-	-	-	-	>0.25	0.11	0.09	-	-
		Induction Ratio	-	-	-	-	6.5	13	16	-	-
525 x 525	0.276 (0.110)	Throw Distance (0.37 m/s), m	-	-	-	-	1.8	2.7	3.5	7.0	10
		Face Velocity, m/s	-	-	-	-	1.3	2.0	2.5	5.1	7.6
		Total Pressure Loss, Pa	-	-	-	-	<2.0	2.2	3.5	15	32
		Noise Rating (NR)	-	-	-	-	<20	22	26	43	>50
		Temperature Quotient	-	-	-	-	>0.25	0.23	0.15	-	-
		Induction Ratio	-	-	-	-	2.7	7.5	11	-	-



TECHNICAL PERFORMANCE . SUPPLY. 4-WAY RECT DIFFUSER



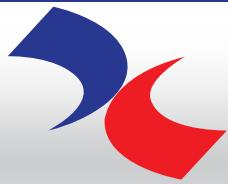
* Diffuser performance data factored in Coanda effect & fully opened Radial OBD conditions.

* 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	NR 35									
			200	250	400	500	600	800	1000	2000	2500	
		Unit Volume Flowrate, l/s	56	70	112	140	168	224	280	560	700	
150 x 225	0.03375 (0.014)	Throw Distance (1) (0.37 m/s), m	2.2	2.7	4.5	5.5	-	-	-	-	-	
		Throw Distance (2) (0.37m/s), m	1.6	2.0	3.2	4.0	-	-	-	-	-	
		Face Velocity, m/s	4.0	5.0	8.0	10	-	-	-	-	-	
		Total Pressure Loss, Pa	9.0	14	37	55	-	-	-	-	-	
		Noise Rating (NR)	27	33	44	>50	-	-	-	-	-	
		Temperature Quotient (1,2)	0.05/0.1	0.04/0.06	0.02/0.03	-	-	-	-	-	-	
150 x 300	0.045 (0.018)	Induction Ratio (1,2)	21/14	27/19	>30	-	-	-	-	-	-	
		Throw Distance (1) (0.37 m/s), m	2.0	2.6	4.2	5.0	6.0	-	-	-	-	
		Throw Distance (2) (0.37m/s), m	1.2	1.6	2.5	3.0	3.8	-	-	-	-	
		Face Velocity, m/s	3.0	3.9	6.2	7.7	9.3	-	-	-	-	
		Total Pressure Loss, Pa	5.0	9.0	22	30	50	-	-	-	-	
		Noise Rating (NR)	22	27	37	44	>50	-	-	-	-	
225 x 300	0.0675 (0.027)	Temperature Quotient (1,2)	0.09/0.22	0.05/0.13	0.02/0.04	0.01/0.04	-	-	-	-	-	
		Induction Ratio (1,2)	16/8.0	22/11	-/20	-/27	-	-	-	-	-	

			NR 25		NR 35		NR 40		NR 45		
			1.5	2.0	3.0	3.9	4.5	6.0	-	-	
225 x 300	0.0675 (0.027)	Throw Distance (1) (0.37 m/s), m	1.5	2.0	3.0	3.9	4.5	6.0	-	-	-
		Throw Distance (2) (0.37m/s), m	1.3	1.6	2.5	3.0	3.5	4.7	-	-	-
		Face Velocity, m/s	2.0	2.6	4.1	5.1	6.2	8.2	-	-	-
		Total Pressure Loss, Pa	2.2	4.0	9.0	15	22	40	-	-	-
		Noise Rating (NR)	<20	20	31	36	40	47	-	-	-
		Temperature Quotient (1,2)	0.19/0.25	0.11/0.18	0.05/0.08	0.03/0.06	0.03/0.04	-	-	-	-
225 x 375	0.0844 (0.034)	Induction Ratio (1,2)	8.5/8.0	13/9.0	22/17	30/22	-/27	-	-	-	-
		Throw Distance (1) (0.37 m/s), m	-	1.7	3.0	3.5	4.5	5.5	7.0	-	-
		Throw Distance (2) (0.37m/s), m	-	1.3	2.0	2.5	2.7	3.5	4.7	-	-
		Face Velocity, m/s	-	2.0	3.3	4.1	4.9	6.5	8.2	-	-
		Total Pressure Loss, Pa	-	2.2	6.0	9.0	14	22	37	-	-
		Noise Rating (NR)	-	<20	26	32	36	43	47	-	-
225 x 450	0.1013 (0.041)	Temperature Quotient (1,2)	-	0.18/-	0.07/0.14	0.06/0.1	0.04/0.09	-/0.06	-/0.03	-	-
		Induction Ratio (1,2)	-	9.0/6.0	18/11	22/14	30/16	-/23	-	-	-



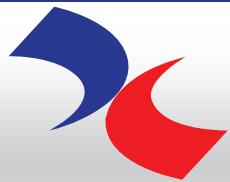
PRUDENTAIRE®

**CEILING DIFFUSERS
CDA/S 500-6000 SERIES
DDCDS 700 SERIES
CDPA/S 800 SERIES**

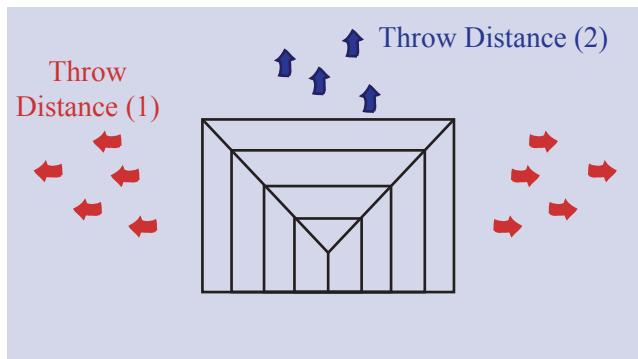


TECHNICAL PERFORMANCE . SUPPLY

			NR 25			NR 35		NR 40		NR 45	
Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	200 56	250 70	400 112	500 140	600 168	800 224	1000 280	2000 560	2500 700
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	-	-
300 x 450	0.135 (0.054)	Induction Ratio (1,2)	-	-	13/9.5	14/11	19/14	27/23	-/27	-	-
		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	-	-
300 x 525	0.1575 (0.063)	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	-	-
		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	-
375 x 450	0.1688 (0.068)	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	-	-
		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	-
375 x 525	0.1969 (0.079)	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	-	-
		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	-
450 x 525	0.2363 (0.095)	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	-	-	-
		Induction Ratio (1,2)	-	-	-	9/6.5	14/9.5	18/12.5	-	-	-
		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	-	-	-



TECHNICAL PERFORMANCE . SUPPLY. 3-WAY DIFFUSER (1)



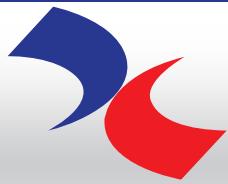
* Diffuser performance data factored in Coanda effect & fully opened Radial OBD conditions.

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

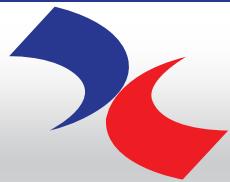
* Neck size given are in Height x Length.

Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr	NR 25 NR 35 NR 40 NR 45									
			200	250	400	500	600	800	1000	2000	2500	
56	70	112	140	168	224	280	560	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	-	-	-	-	-	-	-	-
150 x 300	0.045 (0.018)	Induction Ratio (1,2)	-	-	-	-	-	-	-	-	-	-
		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	-	-	-	-	-
225 x 225	0.0506 (0.020)	Temperature Quotient (1,2)	0.08/0.05	0.06/0.04	0.025/-	0.018/-	-	-	-	-	-	-
		Induction Ratio (1,2)	16/22	22/27	-	-	-	-	-	-	-	-

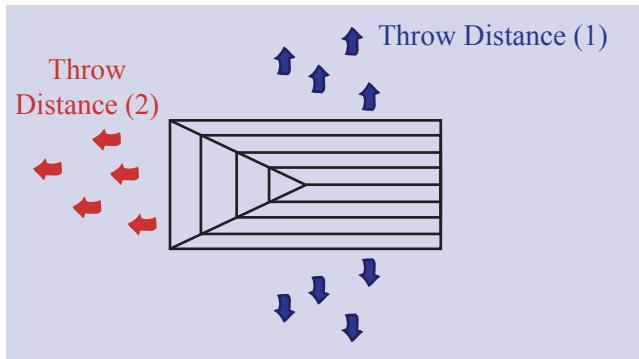
			NR 25		NR 35		NR 40		NR 45			
			2.3	2.7	4.5	5.6	6.5	-	-	-		
225 x 300	0.0675 (0.027)	Throw Distance (1) (0.30 m/s), m	1.8	2.4	3.6	4.5	5.5	7.0	-	-	-	-
		Throw Distance (2) (0.30 m/s), m	1.8	2.4	3.6	4.5	5.5	7.0	-	-	-	-
		Face Velocity, m/s	2.0	2.6	4.1	5.1	6.2	8.2	-	-	-	-
		Total Pressure Loss, Pa	2.3	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	-	-	-	-	-	-
225 x 375	0.0844 (0.034)	Induction Ratio (1,2)	11.5	17	26	-	-	-	-	-	-	-
		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/-	-	-	-	-	-	-

**TECHNICAL PERFORMANCE . SUPPLY. 3-WAY DIFFUSER (1)**

Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	NR 25						NR 35	NR 40	NR 45	2500 700
			200 56	250 70	400 112	500 140	600 168	800 224	1000 280	2000 560	2000 560	
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/-	-	-	-	-
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	0.05/0.06	-	-	-	-
		Induction Ratio (1,2)	-	-	-	12.5/11	17/15	22/20	-	-	-	-
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 . SUPPLY. 3-WAY DIFFUSER(2)



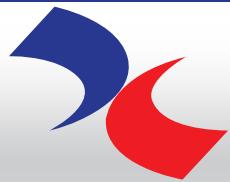
* Diffuser performance data factored in Coanda effect & fully opened Radial OBD conditions.

* 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	NR 25		NR 35		NR 40		NR 45		2000 560	2500 700
			200 56	250 70	400 112	500 140	600 168	800 224	1000 280			
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	-	-	-	-	-	-	-	-
150 x 300	0.045 (0.018)	Induction Ratio (1,2)	27/17	-/24	-	-	-	-	-	-	-	-
		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	-	-	-	-	-
225 x 300	0.0675 (0.027)	Temperature Quotient (1,2)	0.05/-	0.04/0.09	-/0.04	-/0.03	-	-	-	-	-	-
		Induction Ratio (1,2)	22/-	27/14	-/26	-	-	-	-	-	-	-

		Throw Distance (1) (0.30 m/s), m	NR 25		NR 35		NR 40		NR 45		-	-
			2.0	2.6	4.1	5.0	6.1	8.0	-	-		
225 x 300	0.0675 (0.027)	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	-	-	-	-
225 x 525	0.1181 (0.046)	Induction Ratio (1,2)	-	13/-	24/15	-/16	-/23	-/30	-	-	-	-
		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	-	-	-



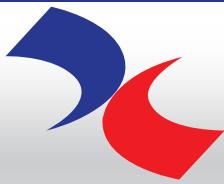
PRUDENTAIRE®

CEILING DIFFUSERS
CDA/S 500-6000 SERIES
DDCDS 700 SERIES
CDPA/S 800 SERIES

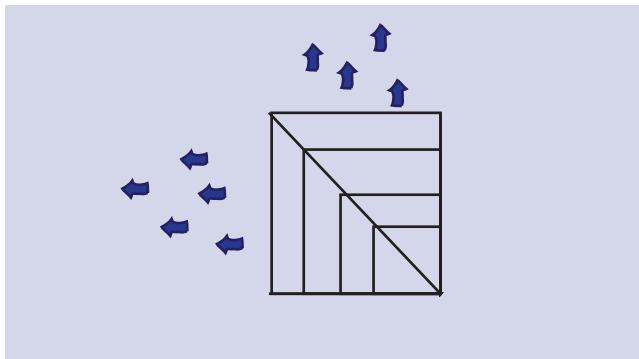


TECHNICAL PERFORMANCE . SUPPLY. 3-WAY DIFFUSER (2)

					NR 25		NR 35		NR 40		NR 45	
Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr	200 56	250 70	400 112	500 140	600 168	800 224	1000 280	2000 560	2500 700	
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	-	-	
NR 25												
NR 35												
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	-	-	
NR 25												
NR 35												
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	-	-	
NR 25												
NR 35												
NR 45												



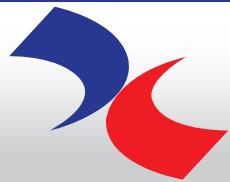
TECHNICAL PERFORMANCE . SUPPLY. 2-WAY SQ DIFFUSER



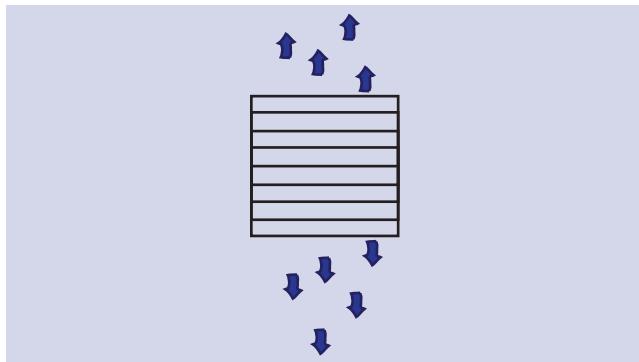
* Diffuser performance data factored in Coanda effect & fully opened Radial OBD conditions.

* 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	NR 25		NR 35		NR 45		2000 560
			100 28	150 42	200 56	250 70	500 140	800 224	
150 x 150	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	-	-	-
		Induction Ratio	-	23	>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
		Face Velocity, m/s	-	-	-	-	2.8	4.4	5.6
		Total Pressure Loss, Pa	-	-	-	-	4.5	13	17
		Noise Rating (NR)	-	-	-	-	25	36	41
		Temperature Quotient	-	-	-	-	-	-	-
		Induction Ratio	-	-	-	-	-	-	-
450 x 450	0.2025 (0.071)	Throw Distance (0.25 m/s), m	-	-	-	-	4.5	7.0	9.0
		Face Velocity, m/s	-	-	-	-	2.0	3.1	3.9
		Total Pressure Loss, Pa	-	-	-	-	2.2	5.5	9.0
		Noise Rating (NR)	-	-	-	-	<20	28	34
		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
		Face Velocity, m/s	-	-	-	-	-	2.2	2.8
		Total Pressure Loss, Pa	-	-	-	-	-	2.7	4.5
		Noise Rating (NR)	-	-	-	-	-	23	28
		Temperature Quotient	-	-	-	-	-	-	-
		Induction Ratio	-	-	-	-	-	-	-



TECHNICAL PERFORMANCE . SUPPLY. 2-WAY DIFFUSER

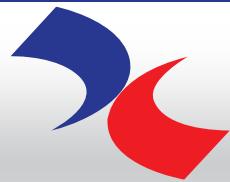


* Diffuser performance data factored in Coanda effect & fully opened Radial OBD conditions.

* 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	100	150	200	250	NR 35		NR 40	NR 45	
			28	42	56	70	500	800	1000	1500	2000
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	-	-	-	-	-	-

		Throw Distance (0.25 m/s), m	NR 25		NR 35		NR 45		
			100	150	200	250	500	800	
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	-	-	-



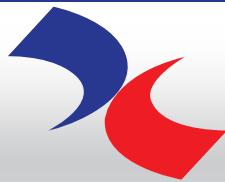
PRUDENTAIRE®

CEILING DIFFUSERS
CDA/S 500-6000 SERIES
DDCDS 700 SERIES
CDPA/S 800 SERIES

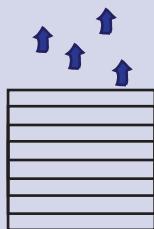


TECHNICAL PERFORMANCE . SUPPLY. 2-WAY DIFFUSER

			NR 25					NR 45			
Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	100 28	150 42	200 56	250 70	500 140	800 224	1000 280	1500 420	2000 560
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	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-
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	-	-	-	-
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 . SUPPLY. 1-WAY DIFFUSER

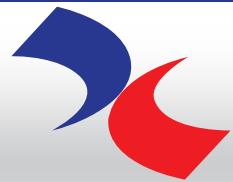


* Diffuser performance data factored in Coanda effect & fully opened Radial OBD conditions.

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

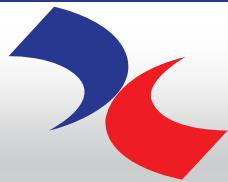
Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	100	150	200	250	NR 25	NR 35	NR 40	NR 45	2000
			28	42	56	70	140	224	280	420	560
150 x 225	0.0338 (0.012)	Throw Distance (0.25 m/s), m	3.0	4.5	5.8	8.0	-	-	-	-	-
		Face Velocity, m/s	2.3	3.5	4.6	5.8	-	-	-	-	-
		Total Pressure Loss, Pa	3.0	7.0	12	17	-	-	-	-	-
		Noise Rating (NR)	<20	24	30	35	-	-	-	-	-
		Temperature Quotient	0.026	<0.015	-	-	-	-	-	-	-
		Induction Ratio	-	-	-	-	-	-	-	-	-
150 x 300	0.045 (0.016)	Throw Distance (0.25 m/s), m	-	3.8	5.0	6.2	13	-	-	-	-
		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	-	0.023	<0.015	-	-	-	-	-	-
		Induction Ratio	-	-	-	-	-	-	-	-	-
150 x 375	0.0563 (0.020)	Throw Distance (0.25 m/s), m	-	3.5	4.7	5.7	11	-	-	-	-
		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	-	0.033	0.02	-	-	-	-	-	-
		Induction Ratio	-	>30	-	-	-	-	-	-	-

225 x 300	0.0675 (0.024)	Throw Distance (0.25 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	-	-	4.2	5.3	10.5	16	-	-	-
			-	-	2.3	2.9	5.8	9.3	-	-	-
225 x 450	0.09 (0.036)	Throw Distance (0.25 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	-	-	-	4.5	8.5	13	16	-	-
			-	-	-	1.9	3.9	6.2	7.7	-	-
			-	-	-	2.0	8.0	22	30	-	-
			-	-	-	<20	32	43	46	-	-
			-	-	-	0.035	-	-	-	-	-
			-	-	-	-	-	-	-	-	-
225 x 525	0.1181 (0.041)	Throw Distance (0.25 m/s), m Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR) Temperature Quotient Induction Ratio	-	-	-	4.0	8.0	13	16	-	-
			-	-	-	1.7	3.4	5.4	6.8	-	-
			-	-	-	<2	7.0	16	25	-	-
			-	-	-	<20	27	40	44	-	-
			-	-	-	0.05	-	-	-	-	-
			-	-	-	23	-	-	-	-	-

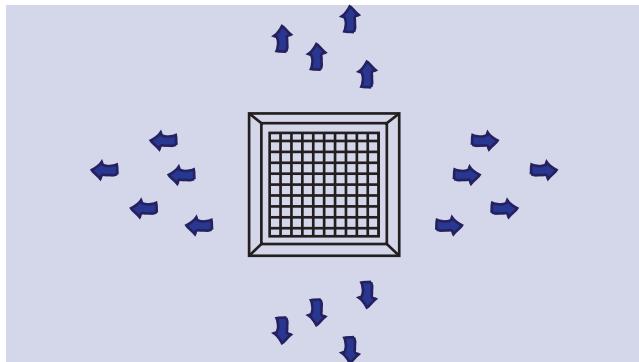


TECHNICAL PERFORMANCE . SUPPLY. 1-WAY DIFFUSER

			NR 25				NR 45				
Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	100 28	150 42	200 56	250 70	500 140	800 224	1000 280	1500 420	2000 560
300 x 300	0.09 (0.032)	Throw Distance (0.25 m/s), m	-	-	-	4.7	9.0	14	18	-	-
		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	-	-	-	0.03	-	-	-	-	-
		Induction Ratio	-	-	-	-	-	-	-	-	-
300 x 375	0.1125 (0.039)	Throw Distance (0.25 m/s), m	-	-	-	4.0	8.0	13	16	-	-
		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	-	-	-	0.05	-	-	-	-	-
		Induction Ratio	-	-	-	23	-	-	-	-	-
300 x 450	0.135 (0.047)	Throw Distance (0.25 m/s), m	-	-	-	-	7.3	12	14	18	-
		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	-	-	-	-	-	-	-	-	-
375 x 375	0.1406 (0.049)	Throw Distance (0.25 m/s), m	-	-	-	-	7.3	12	14	18	-
		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	-	-	-	-	-	-	-	-	-
450 x 450	0.2025 (0.071)	Throw Distance (0.25 m/s), m	-	-	-	-	6.1	9.5	13	16	23
		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	-	-	-	-	-	-	-	-	-
		Induction Ratio	-	-	-	-	-	-	-	-	-
525 x 525	0.2756 (0.097)	Throw Distance (0.25 m/s), m	-	-	-	-	8.1	11	13	21	-
		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	-	-	-	-	-	-	-	-	-



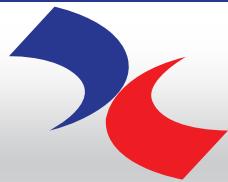
TECHNICAL PERFORMANCE . SUPPLY. DDCD DIFFUSER



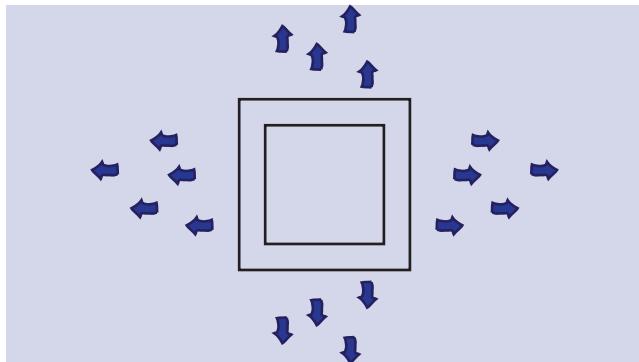
* Diffuser performance data factored in Coanda effect & fully opened Radial OBD conditions.

* 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	NR 25	NR 35	NR 40	NR 45					
			110 31	165 46	220 62	275 77	550 154	880 246	1100 308	2200 616	3300 924
150 x 150	0.0225 (0.010)	Throw Distance (0.37 m/s), m	1.2	1.8	2.4	3.0	-	-	-	-	-
		Face Velocity, m/s	3.0	4.6	6.2	7.7	-	-	-	-	-
		Total Pressure Loss, Pa	5.0	13	22	32	-	-	-	-	-
		Noise Rating (NR)	20	30	36	42	-	-	-	-	-
		Temperature Quotient	0.12	0.05	0.027	0.022	-	-	-	-	-
		Induction Ratio	13	23	>30	>30	-	-	-	-	-
225 x 225	0.0506 (0.022)	Throw Distance (0.37 m/s), m	-	1.2	1.6	2.1	4.0	-	-	-	-
		Face Velocity, m/s	-	2.1	2.8	3.5	6.9	-	-	-	-
		Total Pressure Loss, Pa	-	2.5	4.7	7.0	26	-	-	-	-
		Noise Rating (NR)	-	<20	22	26	42	-	-	-	-
		Temperature Quotient	-	0.23	0.13	0.08	0.025	-	-	-	-
		Induction Ratio	-	8.0	11	16	>30	-	-	-	-
300 x 300	0.09 (0.041)	Throw Distance (0.37 m/s), m	-	-	1.2	1.5	3.0	4.8	5.8	-	-
		Face Velocity, m/s	-	-	1.5	1.9	3.9	6.2	7.7	-	-
		Total Pressure Loss, Pa	-	-	<2.0	2.2	8.2	22	32	-	-
		Noise Rating (NR)	-	-	<20	<20	32	42	47	-	-
		Temperature Quotient	-	-	>0.25	0.23	0.07	0.035	<0.03	-	-
		Induction Ratio	-	-	5.0	7.5	18	>30	>30	-	-
375 x 375	0.141 (0.064)	Throw Distance (0.37 m/s), m	-	-	-	1.3	2.4	3.9	4.8	9.0	-
		Face Velocity, m/s	-	-	-	1.2	2.5	4.0	5.0	9.9	-
		Total Pressure Loss, Pa	-	-	-	<2.0	3.5	9.0	14	55	-
		Noise Rating (NR)	-	-	-	<20	24	34	38	>50	-
		Temperature Quotient	-	-	-	>0.25	0.14	0.065	0.045	-	-
		Induction Ratio	-	-	-	4.0	11	20	25	-	-
450 x 450	0.2025 (0.089)	Throw Distance (0.37 m/s), m	-	-	-	-	2.1	3.5	4.0	8.0	-
		Face Velocity, m/s	-	-	-	-	1.7	2.7	3.4	6.9	-
		Total Pressure Loss, Pa	-	-	-	-	<2.0	4.2	7.0	27	-
		Noise Rating (NR)	-	-	-	-	<20	27	32	47	-
		Temperature Quotient	-	-	-	-	>0.25	0.11	0.09	-	-
		Induction Ratio	-	-	-	-	6.5	13	16	-	-
525 x 525	0.276 (0.121)	Throw Distance (0.37 m/s), m	-	-	-	-	1.8	2.7	3.5	7.0	10
		Face Velocity, m/s	-	-	-	-	1.3	2.0	2.5	5.1	7.6
		Total Pressure Loss, Pa	-	-	-	-	<2.0	2.2	3.5	15	32
		Noise Rating (NR)	-	-	-	-	<20	22	26	43	>50
		Temperature Quotient	-	-	-	-	>0.25	0.23	0.15	-	-
		Induction Ratio	-	-	-	-	2.7	7.5	11	-	-



TECHNICAL PERFORMANCE . SUPPLY. PLATE 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	NR 25		NR 35		500	800	1000
			60 17	80 22	100 28	150 42			
100 x 100	0.001 (0.0044)	Throw Distance (0.37 m/s), m	0.70	0.90	1.1	1.6	-	-	-
		Face Velocity, m/s	3.8	5.1	6.3	9.5	-	-	-
		Total Pressure Loss, Pa	7.5	15	22	45	-	-	-
		Noise Rating (NR)	<20	20	26	37	-	-	-
		Temperature Quotient	-	-	-	-	-	-	-
		Induction Ratio	-	-	-	-	-	-	-
125 x 125	0.0156 (0.0066)	Throw Distance (0.37 m/s), m	-	0.75	0.85	1.4	1.7	-	-
		Face Velocity, m/s	-	3.4	4.2	6.3	8.4	-	-
		Total Pressure Loss, Pa	-	6.0	9.0	20	35	-	-
		Noise Rating (NR)	-	<20	<20	28	37	-	-
		Temperature Quotient	-	-	-	-	-	-	-
		Induction Ratio	-	-	-	-	-	-	-
160 x 160	0.0256 (0.0110)	Throw Distance (0.37 m/s), m	-	-	0.70	1.0	1.45	1.7	-
		Face Velocity, m/s	-	-	2.5	3.8	5.1	6.3	-
		Total Pressure Loss, Pa	-	-	3.2	8.0	13	22	-
		Noise Rating (NR)	-	-	<20	<20	25	32	-
		Temperature Quotient	-	-	-	-	-	-	-
		Induction Ratio	-	-	-	-	-	-	-
200 x 200	0.04 (0.0171)	Throw Distance (0.37 m/s), m	-	-	-	0.85	1.2	1.45	2.8
		Face Velocity, m/s	-	-	-	2.4	3.2	4.1	8.1
		Total Pressure Loss, Pa	-	-	-	3.0	6.0	8.2	32
		Noise Rating (NR)	-	-	-	<20	<20	23	44
		Temperature Quotient	-	-	-	-	-	-	-
		Induction Ratio	-	-	-	-	-	-	-
250 x 250	0.0625 (0.0270)	Throw Distance (0.37 m/s), m	-	-	-	0.75	0.9	1.2	2.3
		Face Velocity, m/s	-	-	-	1.5	2.1	2.6	5.1
		Total Pressure Loss, Pa	-	-	-	<2.0	2.3	3.3	35
		Noise Rating (NR)	-	-	-	<20	<20	23	47
		Temperature Quotient	-	-	-	-	-	-	-
		Induction Ratio	-	-	-	-	-	-	-
315 x 315	0.0992 (0.0429)	Throw Distance (0.37 m/s), m	-	-	-	-	0.77	0.93	1.8
		Face Velocity, m/s	-	-	-	-	1.3	1.6	3.2
		Total Pressure Loss, Pa	-	-	-	-	<2.0	<2.0	5.3
		Noise Rating (NR)	-	-	-	-	<20	<20	23
		Temperature Quotient	-	-	-	-	-	-	37
		Induction Ratio	-	-	-	-	-	-	43