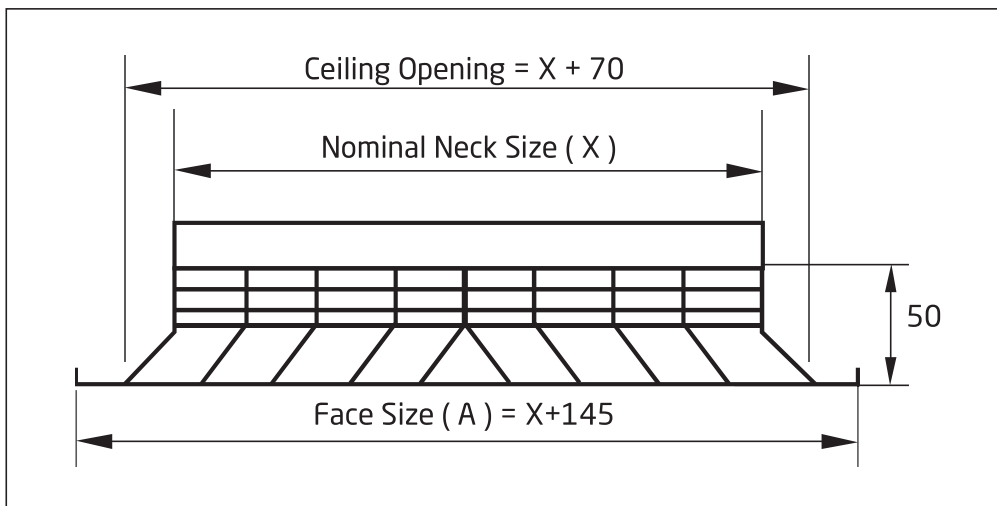
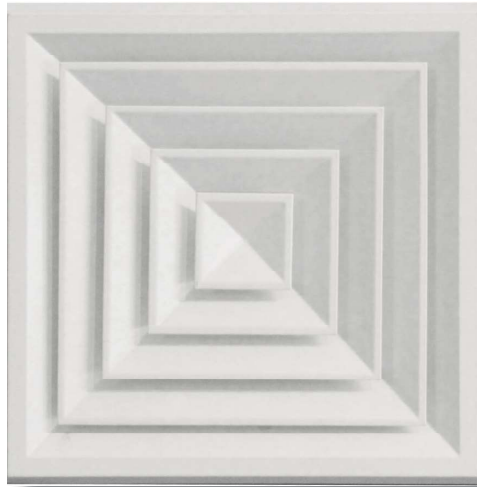


Lay-In 4 Way Diffuser



Nominal Neck Metric (X)	Face Size (A)
150 x 150 mm	295 x 295 mm
225 x 225 mm	370 x 370 mm
300 x 300 mm	445 x 445 mm
375 x 375 mm	520 x 520 mm
450 x 450 mm	595 x 595 mm

* Grilles are powder coated white as standard

* The first number is for horizontal dimension and the second number is for vertical dimension

Quick Selection Table

Flow rate		Dim	150 x 150	225 x 225	300 x 300	375 x 375	450 x 450	525 x 525	600 x 600	Flow rate		Dim	150 x 150	225 x 225	300 x 300	375 x 375	450 x 450	525 x 525	600 x 600				
(m ³ /h)	(l/s)	A _k	0.0096	0.0215	0.0383	0.0598	0.0863	0.1174	0.1534	(m ³ /h)	(l/s)	A _k	0.0096	0.0215	0.0383	0.0598	0.0863	0.1174	0.1534				
50	13.9	V _k	1.4							350	97.2	V _k		4.5	2.5	1.6	1.1	0.8					
		X	0.9										X		4.1	3.1	2.5	2.0	1.8				
		P _t	1.5											P _t		14.3	4.5	1.9	0.9	0.5			
		NR	-											NR		36	24	15	7	-			
60	16.7	V _k	1.7							400	111.1	V _k		5.2	2.9	1.9	1.3	0.9					
		X	1.1										X		4.7	3.5	2.8	2.3	2.0				
		P _t	2.1											P _t		18.7	5.9	2.4	1.2	0.6			
		NR	9											NR		39	27	18	10	-			
70	19.4	V _k	2.0	0.9						500	138.9	V _k		6.5	3.6	2.3	1.6	1.2	0.9				
		X	1.2	0.8									X		5.8	4.4	3.5	2.9	2.5	2.2			
		P _t	2.9	0.6										P _t		29.2	9.2	3.8	1.8	1.0	0.6		
		NR	13	-										NR		45	33	23	16	9	-		
80	22.2	V _k	2.3	1.0						600	166.7	V _k			4.4	2.8	1.9	1.4	1.1				
		X	1.4	0.9									X			5.3	4.2	3.5	3.0	2.6			
		P _t	3.8	0.7										P _t			13.3	5.4	2.6	1.4	0.8		
		NR	16	-										NR			37	28	20	14	8		
90	25.0	V _k	2.6	1.2						700	194.4	V _k			5.1	3.3	2.3	1.7	1.3				
		X	1.6	1.1									X			6.1	4.9	4.1	3.5	3.1			
		P _t	4.7	0.9										P _t			18.0	7.4	3.6	1.9	1.1		
		NR	19	-										NR			41	32	24	18	12		
100	27.8	V _k	2.9	1.3						800	222.2	V _k			5.8	3.7	2.6	1.9	1.4				
		X	1.8	1.2									X			7.0	5.6	4.7	4.0	3.5			
		P _t	5.9	1.2										P _t			23.6	9.7	4.6	2.5	1.5		
		NR	22	5										NR			44	35	27	21	15		
120	33.3	V _k	3.5	1.6	0.9					900	250.0	V _k			6.5	4.2	2.9	2.1	1.6				
		X	2.1	1.4	1.1								X			7.9	6.3	5.3	4.5	3.9			
		P _t	8.4	1.7	0.5									P _t			29.8	12.2	5.9	3.2	1.9		
		NR	26	9	-									NR			47	38	30	24	18		
140	38.9	V _k	4.1	1.8	1.0					1000	277.8	V _k				4.6	3.2	2.4	1.8				
		X	2.5	1.6	1.2								X			7.0	5.8	5.0	4.4				
		P _t	11.5	2.3	0.7									P _t			15.1	7.3	3.9	2.3			
		NR	30	13	-									NR			41	33	26	21			
160	44.4	V _k	4.6	2.1	1.2					1200	333.3	V _k				5.6	3.9	2.8	2.2				
		X	2.8	1.9	1.4								X			8.4	7.0	6.0	5.3				
		P _t	15.0	3.0	0.9									P _t			21.7	10.4	5.6	3.3			
		NR	33	16	-									NR			45	37	31	25			
180	50.0	V _k	5.2	2.3	1.3					1400	388.9	V _k				6.5	4.5	3.3	2.5				
		X	3.2	2.1	1.6								X			9.8	8.2	7.0	6.1				
		P _t	19.0	3.8	1.2									P _t			29.6	14.2	7.7	4.5			
		NR	36	19	7									NR			49	41	35	29			
200	55.6	V _k	5.8	2.6	1.5	0.9				1600	444.4	V _k					5.1	3.8	2.9				
		X	3.5	2.3	1.8	1.4							X				9.3	8.0	7.0				
		P _t	23.4	4.7	1.5	0.6								P _t				18.6	10.0	5.9			
		NR	39	22	10	-								NR				44	38	33			
250	69.4	V _k	7.2	3.2	1.8	1.2	0.8			1800	500.0	V _k					5.8	4.3	3.3				
		X	4.4	2.9	2.2	1.8	1.5						X				10.5	9.0	7.9				
		P _t	36.6	7.3	2.3	0.9	0.5							P _t				23.5	12.7	7.4			
		NR	44	28	15	6	-							NR				47	41	35			
300	83.3	V _k		3.9	2.2	1.4	1.0			2000	555.6	V _k					6.4	4.7	3.6				
		X		3.5	2.6	2.1	1.8						X				11.7	10.0	8.8				
		P _t		10.5	3.3	1.4	0.7							P _t				29.0	15.7	9.2			
		NR		32	20	11	-							NR				50	44	38			

Symbols:

A_k - Effective area

V_k - Effective velocity in m/s

X - Throw in metres correspond to a terminal velocity in occupied zone of 0.25m/s

Pressure (P_t) - All pressures are in Pa (N/m²)

NR - Noise level index in dB based on a room absorption and one diffuser

Quick Selection Table

Flow rate		Dim	150 x 150	225 x 225	300 x 300	375 x 375	450 x 450	525 x 525	600 x 160	Flow rate		Dim	150 x 150	225 x 225	300 x 300	375 x 375	450 x 450	525 x 525	600 x 160		
(m³/h)	(l/s)	A _k	0.0109	0.0244	0.0435	0.0679	0.0978	0.1331	0.1739	(m³/h)	(l/s)	A _k	0.0109	0.0244	0.0435	0.0679	0.0978	0.1331	0.1739		
100	27.8	V _k	2.5	1.1						700	194.4	V _k		8.0	4.5	2.9	2.0	1.5	1.1		
		X	0.5	0.3								X		2.3	1.7	1.4	1.2	1.0	0.9		
		P _t	4.5	0.9									P _t		44.5	14.0	5.7	2.8	1.5	0.9	
		NR	18	-									NR		49	37	28	21	15	9	
120	33.3	V _k	3.1	1.4						800	222.2	V _k			5.1	3.3	2.3	1.7	1.3		
		X	0.6	0.4								X			2.0	1.6	1.3	1.1	1.0		
		P _t	6.5	1.3									P _t			18.3	7.5	3.6	2.0	1.1	
		NR	22	6									NR			41	32	24	18	12	
140	38.9	V _k	3.6	1.6						900	250.0	V _k			5.7	3.7	2.6	1.9	1.4		
		X	0.7	0.5								X			2.2	1.8	1.5	1.3	1.1		
		P _t	8.9	1.8									P _t			23.1	9.5	4.6	2.5	1.4	
		NR	26	9									NR			44	35	27	21	15	
160	44.4	V _k	4.1	1.8	1.0					1000	277.8	V _k			6.4	4.1	2.8	2.1	1.6		
		X	0.8	0.5	0.4							X			2.5	2.0	1.7	1.4	1.2		
		P _t	11.6	2.3	0.7								P _t			28.5	11.7	5.6	3.0	1.8	
		NR	29	13	-								NR			46	37	30	23	18	
180	50.0	V _k	4.6	2.0	1.1					1200	333.3	V _k			7.7	4.9	3.4	2.5	1.9		
		X	0.9	0.6	0.4							X			3.0	2.4	2.0	1.7	1.5		
		P _t	14.7	2.9	0.9								P _t			41.1	16.9	8.1	4.4	2.6	
		NR	32	16	-								NR			51	42	34	28	23	
200	55.6	V _k	5.1	2.3	1.3					1400	388.9	V _k				5.7	4.0	2.9	2.2		
		X	1.0	0.7	0.5							X				2.8	2.3	2.0	1.7		
		P _t	18.2	3.6	1.1								P _t				23	11.1	6.0	3.5	
		NR	35	18	6								NR				46	38	32	26	
250	69.4	V _k	6.4	2.8	1.6	1.0				1600	444.4	V _k				6.5	4.5	3.3	2.6		
		X	1.2	0.8	0.6	0.5						X				3.2	2.7	2.3	2.0		
		P _t	28.4	5.7	1.8	0.7							P _t				30	14.5	7.8	4.6	
		NR	40	24	12	-							NR				49	41	35	30	
300	83.3	V _k	7.6	3.4	1.9	1.2				1800	500.0	V _k				7.4	5.1	3.8	2.9		
		X	1.5	1.0	0.7	0.6						X				3.6	3.0	2.6	2.2		
		P _t	40.9	8.2	2.6	1.1							P _t				38	18.3	9.9	5.8	
		NR	45	28	16	7							NR				52	44	38	33	
350	97.2	V _k	8.9	4.0	2.2	1.4	1.0			2000	555.6	V _k					5.7	4.2	3.2		
		X	1.7	1.2	0.9	0.7	0.6					X					3.3	2.9	2.5		
		P _t	55.7	11.1	3.5	1.4	0.7						P _t					22.6	12.2	7.1	
		NR	49	32	20	11	-						NR					47	41	35	
400	111.1	V _k		4.6	2.6	1.6	1.1			2500	694.4	V _k						7.1	5.2	4.0	
		X		1.3	1.0	0.8	0.7					X						4.2	3.6	3.1	
		P _t		14.5	4.6	1.9	0.9						P _t						35.3	19.1	11.2
		NR		35	24	15	7						NR						52	46	41
450	125.0	V _k		5.1	2.9	1.8	1.3			3000	833.3	V _k							6.3	4.8	
		X		1.5	1.1	0.9	0.7					X							4.3	3.7	
		P _t		18.4	5.8	2.4	1.1						P _t							27.4	16.1
		NR		38	27	17	10						NR							51	45
500	138.9	V _k		5.7	3.2	2.0	1.4			3500	972.2	V _k							7.3	5.6	
		X		1.7	1.2	1.0	0.8					X							5	4.4	
		P _t		22.7	7.1	2.9	1.4						P _t							37.3	21.9
		NR		41	29	20	13						NR							54	49
600	166.7	V _k		6.8	3.8	2.5	1.7	1.3		4000	1111.1	V _k							8.3	6.4	
		X		2.0	1.5	1.2	1.0	0.9				X							5.7	5.0	
		P _t		32.7	10.3	4.2	2.0	1.1					P _t							48.8	28.6
		NR		45	34	25	17	11					NR							58	52

Symbols:

A_k - Effective area

V_k - Effective velocity in m/s

X - Throw in metres correspond to a terminal velocity in occupied zone of 0.25m/s

Pressure (P_t) - All pressures are in Pa (N/m²)

NR - Noise level index in dB based on a room absorption and one diffuser