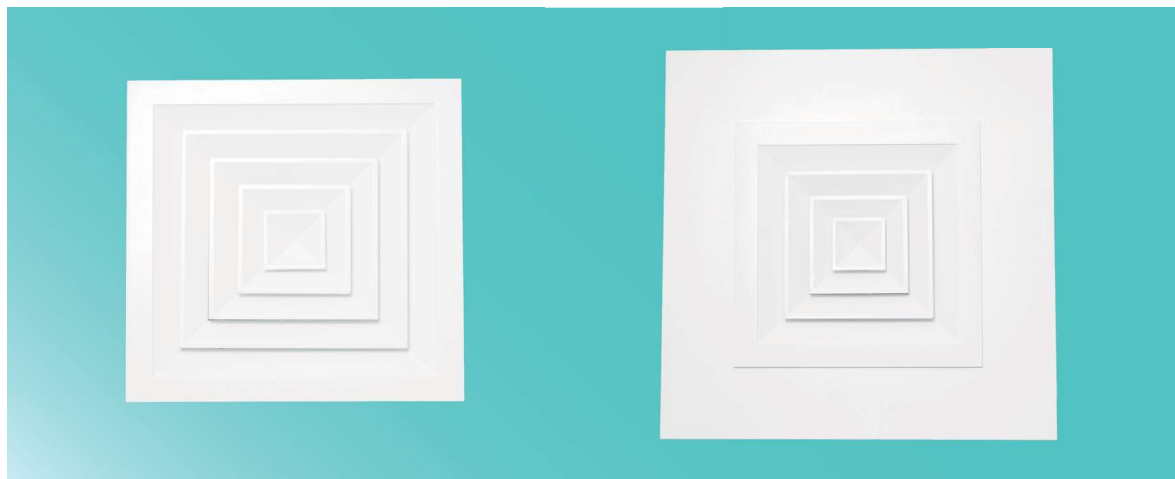


DIFFUSEUR CARRE PLAFONNIER

SCD

SQUARE CEILING DIFFUSER



AVANTAGES

Les diffuseurs SCD s'adaptent aisément aux décorations des espaces tout en assurant une distribution d'air confortable pour les occupants. Les orientations multiples de soufflage présentent une solution pour les locaux de formes géométriques particulières.

La forme des ailettes assure une adhérence des flux d'air au plafond, l'effet Coanda ainsi obtenu rend la distribution d'air uniforme et la température ambiante plus homogène.

Les diffuseurs sont de dimensions normalisées pour un raccordement conforme aux normes ISO.

CATACTERISTIQUES

- Matériaux : cadre et ailettes en profiles d'aluminium extrude de fortes épaisseurs
- Noyau central amovible
- Finition : aluminium laqué blanc RAL 9016
- Fixation : par vis cachés
- Soufflage dans deux directions sur demande
- Réglage du débit au moyen d'un registre de réglage OBD à ailettes opposées (en option)

APPLICATIONS

Soufflage, reprise et extraction.

DESIGNATION

SCD-N-T-LxH

- SCD : Diffuseur carré plafonnier
- N : Nombre d'orientations de soufflage (01 à 04)
- T : Spécial dalle faux plafond 600x600
- LxH : Tailles des diffuseurs : 150x150, 225x225, 300x300, 375x375, 450x450, 525x525 ou 600x600

FEATURES

SCD diffusers match most space aesthetics designs and provide quality and comfortable air distribution for the occupants. Multiple throw directions are a precious solution for spaces with particular geometries and occupation layouts.

Blades' shape ensures air jet adherence to the ceiling, the so achieved "Coandă effect" makes air distribution uniform throughout the space resulting in a homogeneous ambient temperature.

The diffusers are manufactured to ISO standard sizes for conventional plenum box mounting.

SPECIFICATIONS

- Materials: Frames and blades made of rigid, heavy gauge extruded aluminum profiles
- Removable central core
- Finishing: powder coated white color RAL 9016
- Mounting: with concealed screws
- Opposite blades pattern available on request
- Adjustable flow rate with an OBD opposite blade damper (optional)

APPLICATIONS

Air supply, return and exhaust.

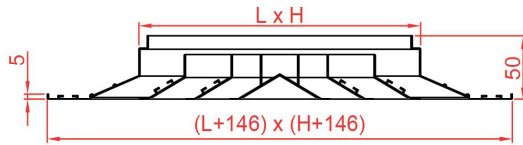
MODEL NAME DESCRIPTION

SCD-N-T-LxH

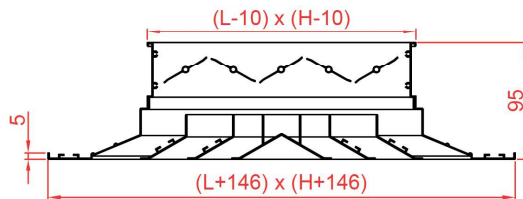
- SCD : Square Ceiling Diffuser
- N : Number of throw directions (01 to 04)
- T : For installation inl for 600x600 ceiling tiles.
- LxH : Diffusers size: 150X150, 225x225, 300x300, 375x375, 450x450, 525x525 or 600x600

DIMENSIONS

Modèle standard
Standard model



Avec registre de réglage OBD
With opposite blade damper OBD

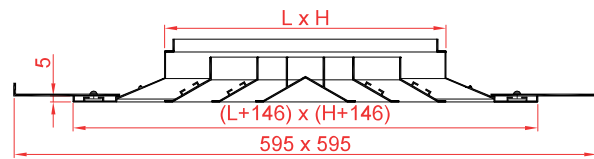


Notes:

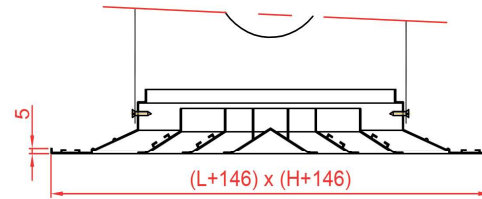
- Ouverture dans le faux plafond : (L+100) x (H+100)
- Dimensions spéciales fabriquées sur demande
- Dimensions peuvent être modifiées sans préavis

DIMENSIONS

Modèle pour faux plafond 600x600
For 600x600 ceiling tiles



Détail de raccordement au plénum (non inclus)
Detail for mounting into plenum box (not included)

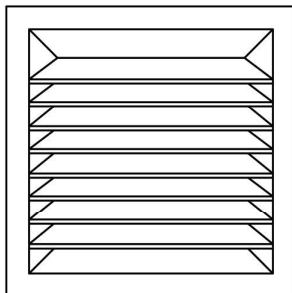


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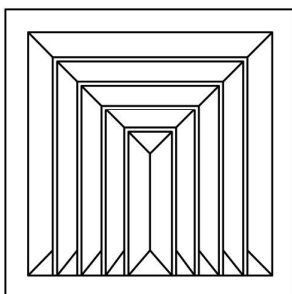
- Ceiling Opening: (L+100)x(H+100)
- Special sizes are manufactured on request
- Dimensions subject to change without prior notice

ORIENTATIONS DE SOUFLAGE

SCD-01: Une direction
SCD-01: One direction

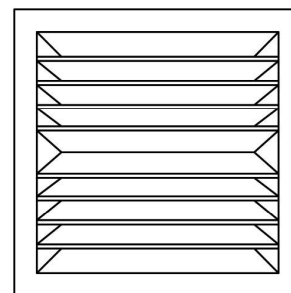


SCD-03: Trois directions
SCD-03: Three directions

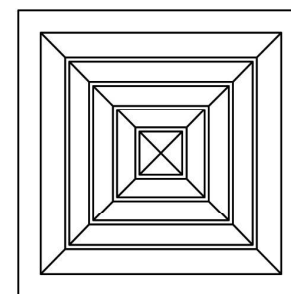


AIR THROW DIRECTIONS

SCD-02: Deux directions
SCD-02: Two directions



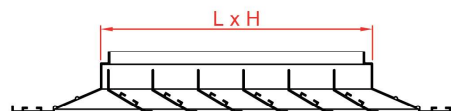
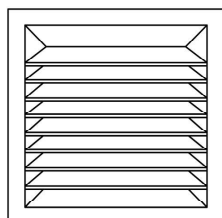
SCD-04: Quatre directions
SCD-04: Four directions



**DIFFUSEUR CARRE PLAFONNIER
A UNE DIRECTION**

SCD-01

**SQUARE CEILING DIFFUSER
ONE THROW DIRECTION**



TABEAU DE SELECTION RAPIDE

QUICK SELECTION TABLE

Débit Flow Rate		LxH	150x150	225x225	300x300	375x375	450x450	525x525	600x600
		Face size	295x295	370x370	445x445	520x520	595x595	670x670	745x745
(m3/h)	(l/s)	A _k	0,0093	0,0209	0,0373	0,0582	0,0838	0,1141	0,149
100	27.8	X	1.8	1.2					
		P	5.9	1.2					
		NR	22	5					
		V	2.9	1.3					
160	44.4	X	2.8	1.9	14				
		P	15	3	0.9				
		NR	33	16	-				
		V	4.6	2.1	1.2				
200	55.6	X	3.5	2.3	1.8	1.4			
		P	23.4	4.7	1.5	0.6			
		NR	39	22	10	-			
		V	5.8	2.6	1.5	0.9			
250	69.4	X	4.4	2.9	2.2	1.8	1.5		
		P	36.6	7.3	2.3	0.9	0.5		
		NR	44	28	15	6	-		
		V	7.2	3.2	1.8	1.2	0.8		
300	83.3	X		3.5	2.6	2.1	1.8		
		P		10.5	3.3	1.4	0.7		
		NR		32	20	11	-		
		V		3.9	2.2	1.4	1		
350	97.2	X		4.1	3.1	2.5	2	1.8	
		P		14.3	4.5	1.9	0.9	0.5	
		NR		36	24	15	7	-	
		V		4.5	2.5	1.6	1.1	0.8	
400	111.1	X		4.7	3.5	2.8	2.3	2	
		P		18.7	5.9	2.4	1.2	0.6	
		NR		39	27	18	10	-	
		V		5.2	2.9	1.9	1.3	0.9	
500	138.9	X		5.8	4.4	3.5	2.9	2.5	2.2
		P		29.2	9.2	3.8	1.8	1	0.6
		NR		45	33	23	16	9	-
		V		6.5	3.6	2.3	1.6	1.2	0.9
600	166.7	X			5.3	4.2	3.5	3	2.6
		P			13.3	5.4	2.6	1.4	0.8
		NR			37	28	20	14	8
		V			4.4	2.8	1.9	1.4	1.1
700	194.4	X			6.1	4.9	4.1	3.5	3.1
		P			18	7.4	3.6	1.9	1.1
		NR			41	32	24	18	12
		V			5.1	3.3	2.3	1.7	1.3
800	222.2	X			7	5.6	4.7	4	3.5
		P			23.6	9.7	4.6	2.5	1.5
		NR			44	35	27	21	15
		V			5.8	3.7	2.6	1.9	1.4
900	250	X			7.9	6.3	5.3	4.5	3.9
		P			29.8	12.2	5.9	3.2	1.9
		NR			47	38	30	24	18
		V			6.5	4.2	2.9	2.1	1.6

TABLEAU DE SELECTION RAPIDE
QUICK SELECTION TABLE

Débit Flow Rate		LxH	150x150	225x225	300x300	375x375	450x450	525x525	600x600
Face size			295x295	370x370	445x445	520x520	595x595	670x670	745x745
(m ³ /h)	(l/s)	A _k	0,0093	0,0209	0,0373	0,0582	0,0838	0,1141	0,149
1000	277.8	X				7	5.8	5	4.4
		P				15.1	7.3	3.9	2.3
		NR				41	33	26	21
		V				4.6	3.2	2.4	1.8
1200	333.3	X				8.4	7	6	5.3
		P				21.7	10.4	5.6	3.3
		NR				45	37	31	25
		V				5.6	3.9	2.8	2.2
1400	388.9	X				9.8	8.2	7	6.1
		P				29.6	14.2	7.7	4.5
		NR				49	41	35	29
		V				6.5	4.5	3.3	2.5
1600	444.4	X					9.3	8	7
		P					18.6	10	5.9
		NR					44	38	33
		V					5.1	3.8	2.9
1800	500	X					10.5	9	7.9
		P					23.5	12.7	7.4
		NR					47	41	35
		V					5.8	4.3	3.3
2000	555.6	X					11.7	10	8.8
		P					29	15.7	9.2
		NR					50	44	38
		V					6.4	4.7	3.6

NR<25

25<NR<38

38<NR

- A_k : Surface effective de la grille en m²
- X : Portée (m), correspond à une vitesse terminale de 0.25m/s
- P : Perte de charge en Pa
- NR : Niveau sonore NR
- V : Vitesse moyenne sortie diffuseur en m/s

- A_k : Grille effective area in m²
- X : Throw (m), corresponds to a terminal velocity of 0.25m/s
- P : Head loss in Pa
- NR : Noise Rating NR
- V : Average face velocity in m/s

**DIFFUSEUR CARRE PLAFONNIER
A DEUX DIRECTIONS**

SCD-02

**SQUARE CEILING DIFFUSER
TWO THROW DIRECTIONS**

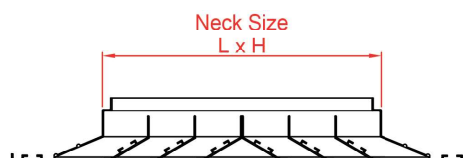
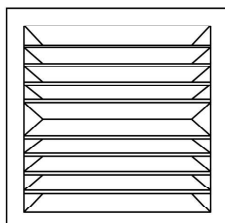


TABLEAU DE SELECTION RAPIDE				QUICK SELECTION TABLE					
Débit Flow Rate		LxH Face size	150x150	225x225	300x300	375x375	450x450	525x525	600x600
(m ³ /h)	(l/s)	A _k	0.0093	0.0209	0.0373	0.0582	0.0838	0.1141	0.1490
100	27.8	X	0.6	0.4					
		P	6.7	1.3					
		NR	22	5					
		V	3.0	1.3					
160	44.4	X	1.0	0.7	0.5				
		P	17.1	3.4	1.1				
		NR	33	17	5				
		V	4.8	2.1	1.2				
200	55.6	X	1.2	0.8	0.6	0.5			
		P	26.8	5.3	1.7	0.7			
		NR	39	22	11	-			
		V	6.0	2.7	1.5	1.0			
250	69.4	X	1.5	1.0	0.8	0.6			
		P	41.8	8.3	2.6	1.1			
		NR	44	28	16	7			
		V	7.5	3.3	1.9	1.2			
300	83.3	X		1.2	0.9	0.7	0.6		
		P		11.9	3.7	1.5	0.7		
		NR		32	21	12	-		
		V		4.0	2.2	1.4	1.0		
350	97.2	X		1.4	1.1	0.9	0.7		
		P		16.2	5.1	2.1	1.0		
		NR		36	24	15	8		
		V		4.7	2.6	1.7	1.2		
400	111.1	X		1.6	1.2	1.0	0.8	0.7	
		P		21.2	6.7	2.7	1.3	0.7	
		NR		40	28	19	11	5	
		V		5.3	3.0	1.9	1.3	1.0	
450	125.0	X		1.8	1.4	1.1	0.9	0.8	
		P		26.8	8.4	3.5	1.7	0.9	
		NR		42	31	22	14	8	
		V		6.0	3.4	2.1	1.5	1.1	
500	138.9	X		2.0	1.5	1.2	1.0	0.9	0.8
		P		33.1	10.4	4.3	2.1	1.1	0.7
		NR		45	33	24	17	10	5
		V		6.6	3.7	2.4	1.7	1.2	0.9
600	166.7	X			1.8	1.5	1.2	1.0	0.9
		P			15	6.2	3.0	1.6	0.9
		NR			38	29	21	15	10
		V			4.5	2.9	2.0	1.5	1.1
700	194.4	X			2.1	1.7	1.4	1.2	1.1
		P			20.4	8.4	4.0	2.2	1.3
		NR			42	33	25	1.9	13
		V			5.2	3.3	2.3	1.7	1.
800	222.2	X			2.4	1.9	1.6	1.4	1.2
		P			26.6	10.9	5.3	2.8	1.7
		NR			45	36	28	22	17
		V			6.0	3.8	2.7	1.9	1.5
900	250.0	X			2.7	2.2	1.8	1.6	1.4
		P			33.7	13.8	6.7	3.6	2.1
		NR			48	39	31	25	20
		V			6.7	4.3	3.0	2.2	1.7

TABLEAU DE SELECTION RAPIDE
QUICK SELECTION TABLE

Débit Flow Rate		LxH	150x150	225x225	300x300	375x375	450x450	525x525	600x600
(m ³ /h)	(l/s)	Face size	295x295	370x370	445x445	520x520	595x595	670x670	745 x745
		A _k	0.0093	0.0209	0.0373	0.0582	0.0838	0.1141	0.1490
1000	277.8	X			3.0	2.4	2.0	1.7	1.5
		P			41.6	17.1	8.2	4.4	2.6
		NR			50	41	34	28	22
		V			7.4	4.8	3.3	2.4	1.9
1200	333.3	X				2.9	2.4	2.1	1.8
		P				24.6	11.9	6.4	3.8
		NR				46	38	32	27
		V				5.7	4.0	2.9	2.2
1400	388.9	X				3.4	2.8	2.4	2.1
		P				33.5	16.2	8.7	5.1
		NR				50	42	36	30
		V				6.7	4.6	3.4	2.6
1600	444.4	X					3.2	2.8	2.4
		P					21.1	11.4	6.7
		NR					46	39	34
		V					5.3	3.9	3.0
1800	500.0	X					3.7	3.1	2.7
		P					26.7	14.4	8.4
		NR					48	42	37
		V					6.0	4.4	3.4
2000	555.6	X					4.1	3.5	3.0
		P					33.0	17.8	10.4
		NR					51	45	39
		V					6.6	4.9	3.7
2500	694.4	X						4.4	3.8
		P						27.8	16.3
		NR						50	45
		V						6.1	4.7
3000	833.3	X						5.2	4.6
		P						40.0	23.5
		NR						55	49
		V						7.3	5.6
3500	972.2	X							5.3
		P							31.9
		NR							53
		V							6.5
4000	1111.1	X							6.1
		P							41.7
		NR							56
		V							7.5

NR<25	25<NR<38	38<NR
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- A_k : Surface effective de la grille en m²
- X : Portée (m), correspond à une vitesse terminale de 0.25m/s
- P : Perte de charge en Pa
- NR : Niveau sonore NR
- V : Vitesse moyenne sortie diffuseur en m/s

- A_k : Grille effective area in m²
- X : Throw (m), corresponds to a terminal velocity of 0.25m/s
- P : Head loss in Pa
- NR : Noise Rating NR
- V : Average face velocity in m/s

**DIFFUSEUR CARRE PLAFONNIER
A TROIS DIRECTIONS**

SCD-03

**SQUARE CEILING DIFFUSER
THREE THROW DIRECTIONS**

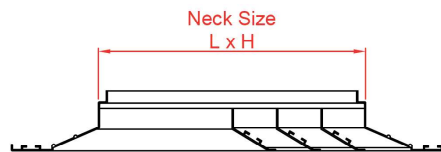
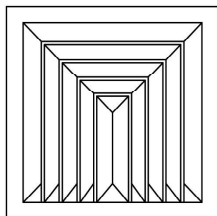


TABLEAU DE SELECTION RAPIDE

QUICK SELECTION TABLE

Débit Flow Rate		LxH	150x150	225x225	300x300	375x375	450x450	525x525	600x600
(m ³ /h)	(l/s)	Face size	295x295	370x370	445x445	520x520	595x595	670x670	745x745
		A _k	0.0093	0.0209	0.0373	0.0582	0.0838	0.1141	0.1490
100	27.8	X	0.6						
		P	8.5						
		NR	17						
		V	3.1						
160	44.4	X	1.0	0.6					
		P	21.7	4.3					
		NR	29	12					
		V	5.0	2.2					
200	55.6	X	1.2	0.8	0.6				
		P	33.9	6.7	2.1				
		NR	34	18	6				
		V	6.2	2.8	1.6				
250	69.4	X	1.5	1.0	0.8				
		P	53.0	10.5	3.3				
		NR	40	23	12				
		V	7.8	3.5	2.0				
300	83.3	X	1.8	1.2	0.9	0.7			
		P	76.3	15.1	4.8	2.0			
		NR	44	28	16	7			
		V	9.4	4.2	2.3	1.5			
350	97.2	X		1.4	1.1	0.8			
		P		20.6	6.5	2.7			
		NR		32	20	11			
		V		4.9	2.7	1.8			
400	111.1	X		1.6	1.2	1.0			
		P		26.9	8.5	3.5			
		NR		35	23	14			
		V		5.6	3.1	2.0			
450	125.0	X		1.8	1.4	1.1	0.9		
		P		34.0	10.8	4.4	2.1		
		NR		38	26	17	10		
		V		6.3	3.5	2.3	1.6		
500	138.9	X		2.0	1.5	1.2	1.0		
		P		42.0	13.3	5.5	2.6		
		NR		40	29	20	12		
		V		6.9	3.9	2.5	1.7		
600	166.7	X			1.8	1.4	1.2	1	
		P			19.2	7.9	3.8	2.4	
		NR			33	24	17	11	
		V			4.7	3.0	2.1	1.6	
700	194.4	X			2.1	1.7	1.4	1.2	
		P			26.1	10.7	5.2	3.4	
		NR			37	28	21	15	
		V			5.5	3.5	2.4	1.8	
800	222.2	X			2.4	1.9	1.6	1.4	1.2
		P			34.1	14.0	6.7	4.2	3.1
		NR			40	31	24	18	13
		V			6.3	4.0	2.8	2	1.6
900	250.0	X			2.7	2.2	1.8	1.6	1.4
		P			43.1	17.7	8.5	5.4	3.9
		NR			43	34	27	21	16
		V			7.0	4.5	3.1	2.3	1.8

TABLEAU DE SELECTION RAPIDE
QUICK SELECTION TABLE

Débit Flow Rate		LxH	150x150	225x225	300x300	375x375	450x450	525x525	600x600
(m ³ /h)		Face size	295x295	370x370	445x445	520x520	595x595	670x670	745x745
		A _k	0.0093	0.0209	0.0373	0.0582	0.0838	0.1141	0.1490
1000	277.8	X			3.0	2.4	2.0	1.7	1.5
		P			53.3	21.9	10.5	6.7	4.9
		NR			46	37	29	23	17
		V			7.8	5.0	3.5	2.6	2.1
1200	333.3	X				2.9	2.4	2.1	1.8
		P				31.5	15.2	9.7	7.1
		NR				41	34	28	23
		V				6.0	4.2	3.1	2.4
1400	388.9	X				3.4	2.8	2.4	2.1
		P				42.9	20.7	13.2	9.6
		NR				45	38	32	26
		V				7.0	4.9	3.7	2.9
1600	444.4	X				3.9	3.2	2.8	2.4
		P				56.0	27.0	17.3	12.6
		NR				48	41	34	29
		V				8.0	5.6	4.2	3.3
1800	500.0	X					3.6	3	2.6
		P					34.2	21.9	15.9
		NR					44	38	33
		V					6.3	4.7	3.7
2000	555.6	X					4.0	3.4	2.9
		P					42.2	27	19.6
		NR					47	41	35
		V					7.0	5.3	4.1
2500	694.4	X					5.0	4.3	3.7
		P					65.9	37	25.5
		NR					52	46	41
		V					8.7	6.5	5.1
3000	833.3	X					6.0	5.1	4.5
		P					94.9	49.2	32.7
		NR					57	51	45
		V					10.4	7.7	6
3500	972.2	X							5.2
		P							41.1
		NR							49
		V							6.9
4000	1111.1	X							6
		P							50.9
		NR							52
		V							7.9

NR<25

25<NR<38

38<NR

- A_k : Surface effective de la grille en m²
- X : Portée (m), correspond à une vitesse terminale de 0.25m/s
- P : Perte de charge en Pa
- NR : Niveau sonore NR
- V : Vitesse moyenne sortie diffuseur en m/s
- A_k : Grille effective area in m²
- X : Throw (m), corresponds to a terminal velocity of 0.25m/s
- P : Head loss in Pa
- NR : Noise Rating NR
- V : Average face velocity in m/s

**DIFFUSEUR CARRE PLAFONNIER
A QUATRE DIRECTIONS**

SCD-04

**SQUARE CEILING DIFFUSER
FOUR THROW DIRECTIONS**

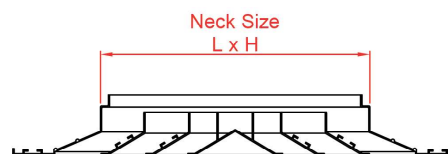
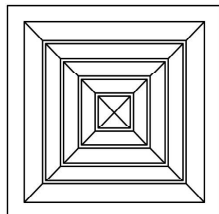


TABLEAU DE SELECTION RAPIDE

QUICK SELECTION TABLE

Débit Flow Rate		LxH	150x150	225x225	300x300	375x375	450x450	525x525	600x600
(m3/h)	(l/s)	Face size	295x295	370x370	445x445	520x520	595x595	670x670	745 x745
		A _k	0.0093	0.0209	0.0373	0.0582	0.0838	0.1141	0.1490
100	27.8	X	0.5	0.3					
		P	4.5	0.9					
		NR	18	9					
		V	2.5	1.1					
160	44.4	X	0.8	0.5	0.4				
		P	11.6	2.3	0.7				
		NR	29	13	7				
		V	4.1	1.8	1.0				
200	55.6	X	1.0	0.7	0.5				
		P	18.2	3.6	1.1				
		NR	35	18	6				
		V	5.1	2.3	1.3				
250	69.4	X	1.2	0.8	0.6	0.5			
		P	28.4	5.7	1.8	0.7			
		NR	40	24	12	6			
		V	6.4	2.8	1.6	1.0			
300	83.3	X	1.5	1.0	0.7	0.6			
		P	40.9	8.2	2.6	1.1			
		NR	45	28	16	7			
		V	7.6	3.4	1.9	1.2			
350	97.2	X	1.7	1.2	0.9	0.7	0.6		
		P	55.7	11.1	3.5	1.4	0.7		
		NR	49	32	20	11	6		
		V	8.9	4.0	2.2	1.4	1.0		
400	111.1	X		1.3	1.0	0.8	0.7		
		P		14.5	4.6	1.9	0.9		
		NR		35	24	15	7		
		V		4.6	2.6	1.6	1.1		
450	125.0	X		1.5	1.1	0.9	0.7		
		P		18.4	5.8	2.4	1.1		
		NR		38	27	17	10		
		V		5.1	2.9	1.8	1.3		
500	138.9	X		1.7	1.2	1.0	0.8		
		P		22.7	7.1	2.9	1.4		
		NR		41	29	20	13		
		V		5.7	3.2	2.0	1.4		
600	166.7	X		2.0	1.5	1.2	1.0	0.9	
		P		32.7	10.3	4.2	2.0	1.1	
		NR		45	34	25	17	11	
		V		6.8	3.8	2.5	1.7	1.3	
700	194.4	X		2.3	1.7	1.4	1.2	1.0	0.9
		P		44.5	14.0	5.7	2.8	1.5	0.9
		NR		49	37	28	21	15	9
		V		8.0	4.5	2.9	2.0	1.5	1.1
800	222.2	X			2.0	1.6	1.3	1.1	1.0
		P			18.3	7.5	3.6	2.0	1.1
		NR			41	32	24	18	12
		V			5.1	3.3	2.3	1.7	1.3
900	250.0	X			2.2	1.8	1.5	1.3	1.1
		P			23.1	9.5	4.6	2.5	1.4
		NR			44	35	27	21	15
		V			5.7	3.7	2.6	1.9	1.4

TABLEAU DE SELECTION RAPIDE
QUICK SELECTION TABLE

Débit Flow Rate		LxH	150x150	225x225	300x300	375x375	450x450	525x525	600x600
(m ³ /h)	(l/s)	Face size	295x295	370x370	445x445	520x520	595x595	670x670	745 x745
		A _k	0.0093	0.0209	0.0373	0.0582	0.0838	0.1141	0.1490
1000	277.8	X			2.5	2.0	1.7	1.4	1.2
		P			28.5	11.7	5.6	3.0	1.8
		NR			46	37	30	23	18
		V			6.4	4.1	2.8	2.1	1.6
1200	333.3	X			3.0	2.4	2.0	1.7	1.5
		P			41.1	16.9	8.1	4.4	2.6
		NR			51	42	34	28	23
		V			7.7	4.9	3.4	2.5	1.9
1400	388.9	X				2.8	2.3	2.0	1.7
		P				23	11.1	6.0	3.5
		NR				46	38	32	26
		V				5.7	4.0	2.9	2.2
1600	444.4	X				3.2	2.7	2.3	2.0
		P				30	14.5	7.8	4.6
		NR				49	41	35	30
		V				6.5	4.5	3.3	2.6
1800	500.0	X				3.6	3.0	2.6	2.2
		P				38	18.3	9.9	5.8
		NR				52	44	38	33
		V				7.4	5.1	3.8	2.9
2000	555.6	X					3.3	2.9	2.5
		P					22.6	12.2	7.1
		NR					47	41	35
		V					5.7	4.2	3.2
2500	694.4	X					4.2	3.6	3.1
		P					35.3	19.1	11.2
		NR					52	46	41
		V					7.1	5.2	4.0
3000	833.3	X						4.3	3.7
		P						27.4	16.1
		NR						51	45
		V						6.3	4.8
3500	972.2	X						5	4.4
		P						37.3	21.9
		NR						54	49
		V						7.3	5.6
4000	1111.1	X						5.7	5.0
		P						48.8	28.6
		NR						58	52
		V						8.3	6.4

NR<25	25<NR<38	38<NR
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- A_k : Surface effective de la grille en m²
- X : Portée (m), correspond à une vitesse terminale de 0.25m/s
- P : Perte de charge en Pa
- NR : Niveau sonore NR
- V : Vitesse moyenne sortie diffuseur en m/s

- A_k : Grille effective area in m²
- X : Throw (m), corresponds to a terminal velocity of 0.25m/s
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