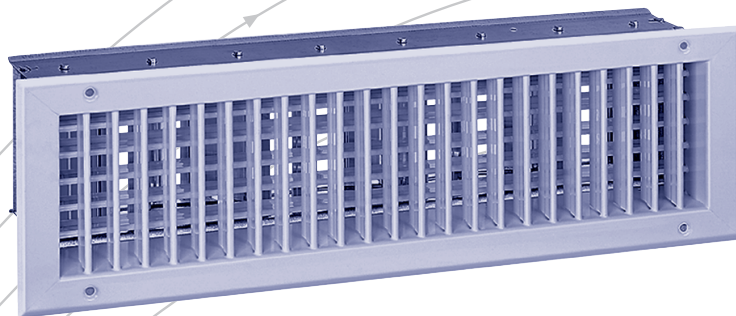


# Griglie di diffusione serie DG...

Dimensionamento

Scarico verticale dall'alto



**TROX<sup>®</sup> TECHNIK**



The art of handling air

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# Contenuti · Applicazione · Vantaggi · Condizioni di base

## Contenuti

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## Applicazione

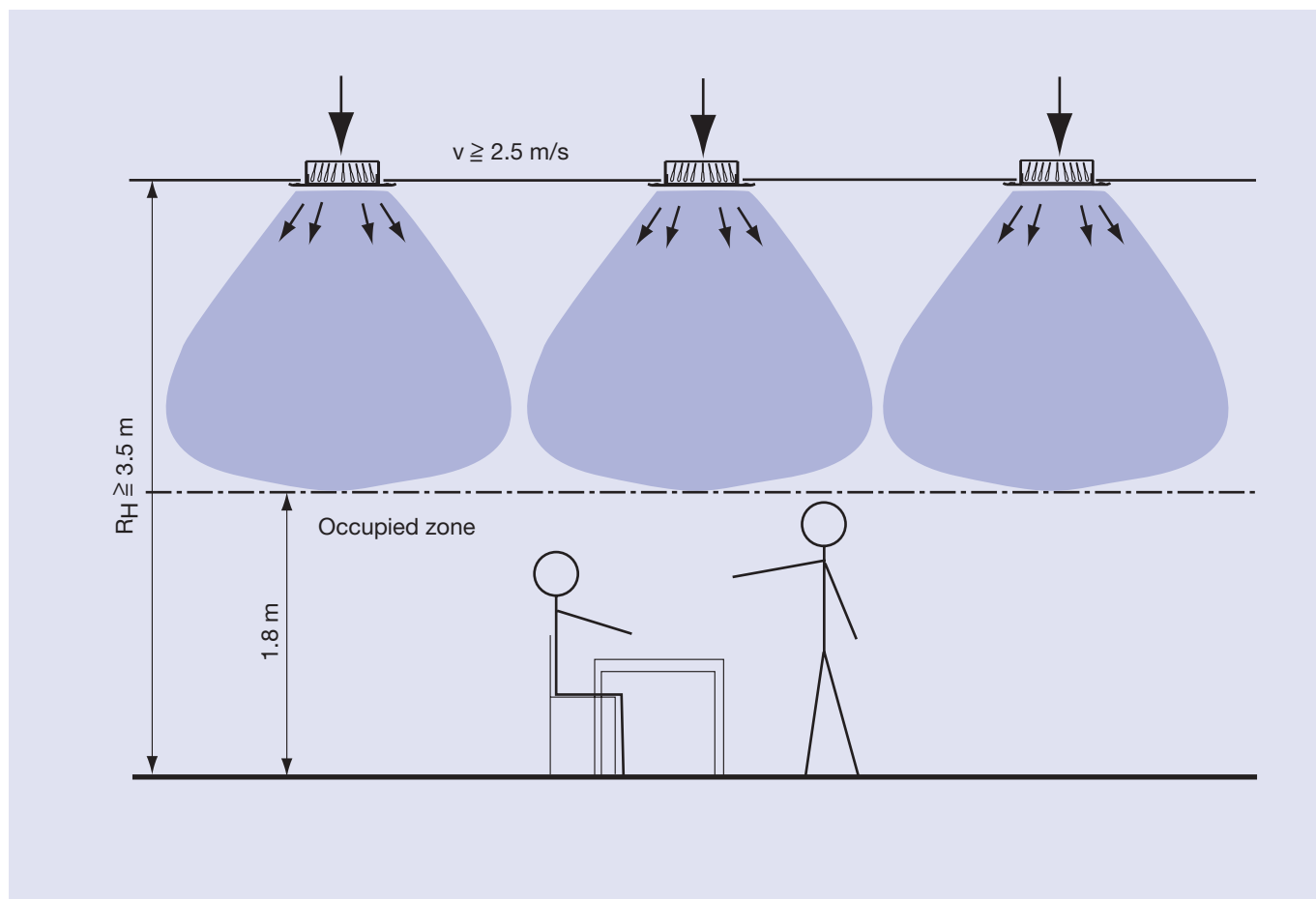
Introduzione verticale dall'alto dell'aria di mandata in ambienti con altezza superiore a 3,5 metri.

## Vantaggi

- Soluzione semplice ed economica per locali alti
- Buona purificazione e distribuzione uniforme dell'aria primaria
- Nessun "cuscino" di calore sotto il soffitto con riscaldamento ad aria calda
- Nessuna intrusione di aria fredda durante il raffreddamento
- Facile realizzazione delle canalizzazioni

## Condizioni di base

- Altezza del locale almeno 3,8 metri, massimo 10,0 metri
- Velocità di uscita effettiva alla griglia di almeno 2,5 m/s
- Angoli delle alette divergenti rispetto alla griglia (preferibilmente 84°)



## Concetto

Perché le griglie di diffusione devono essere impostate sempre in modo divergente quando l'aria viene immessa dall'alto?

### Posizione diritta delle alette

- Grandi variazioni nella profondità di penetrazione verticale dipendente dalla  $\Delta t$ .
- Lungo lancio dell'aria

### Posizione divergente delle alette

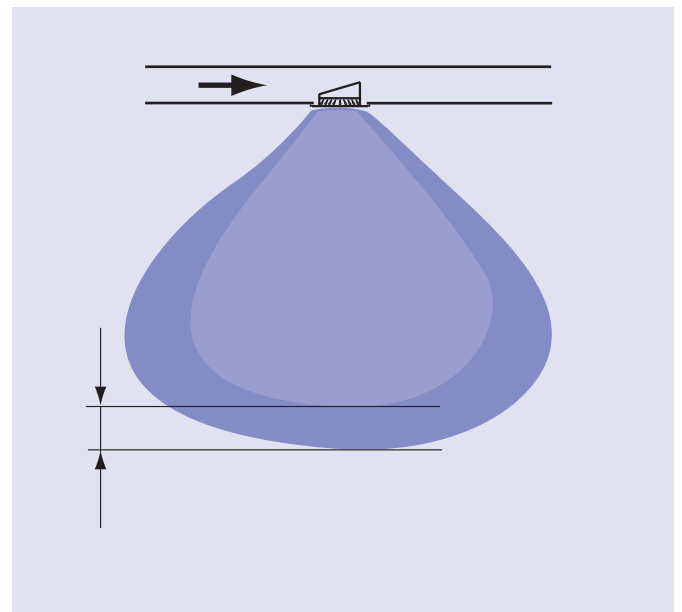
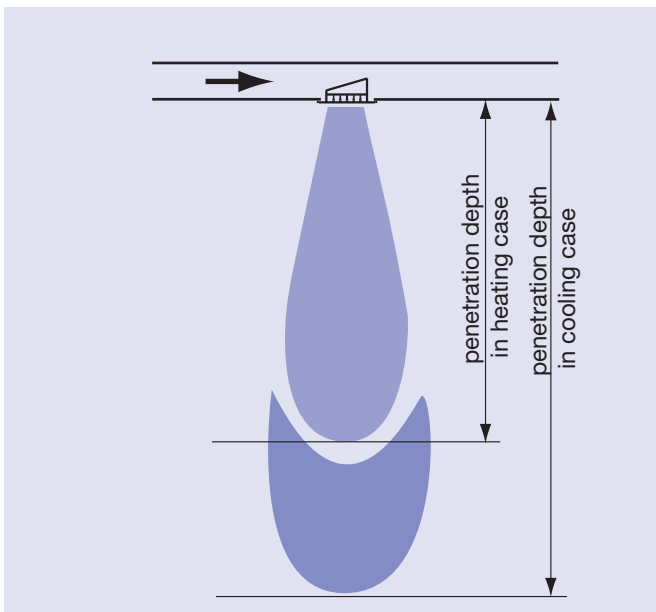
- Piccole variazioni nella profondità di penetrazione
- Elevata induzione
- Differenza di temperatura ridotta alla fine del flusso d'aria
- Lancio corto dell'aria

### Situazione di uscita con posizione diritta delle alette

Differenze notevoli nella distanza di gittata tra caldo e freddo

### Situazione di uscita con posizione divergente delle alette

Differenze ridotte nella distanza di lancio tra caldo e freddo.



## Determinazione della dimensione approssimativa del diffusore

Qual è l'altezza nominale  $H$  della griglia da ottenere per le diverse altezze  $R_H$  dei locali?

- $H = 50$  mm per altezza  $R_H$  del locale da circa 3,5 a 4,0 m
- $H = 100$  mm per altezza  $R_H$  del locale da circa 4,0 a 5,0 m
- $H = 150$  mm per altezza  $R_H$  del locale da circa 5,0 a 6,0 m
- $H = 200$  mm per altezza  $R_H$  del locale da circa 6,0 a 7,0 m
- $H = 250$  mm per altezza  $R_H$  del locale da circa 7,0 a 10,0 m

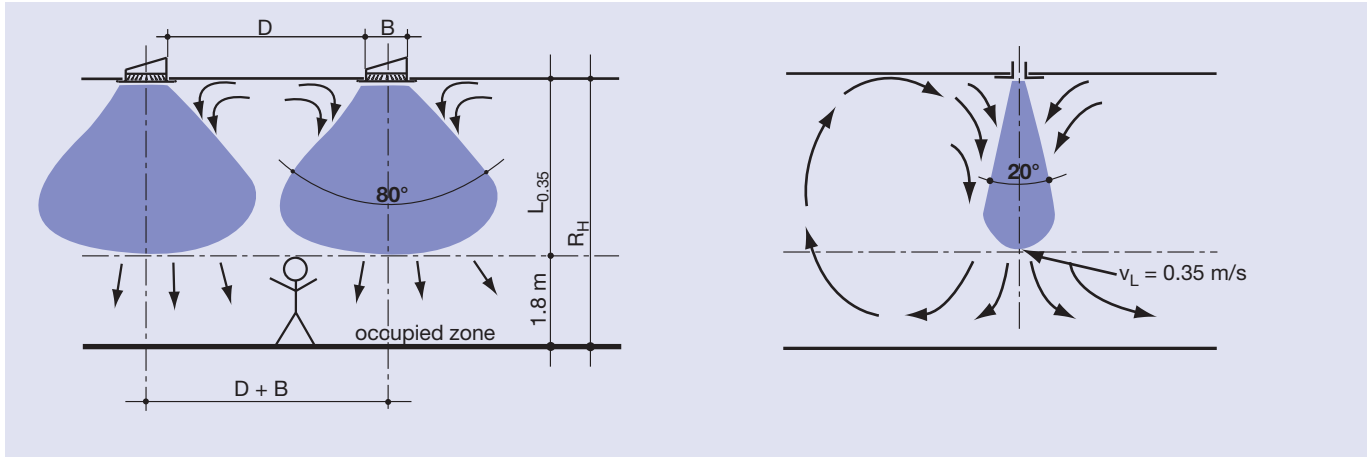
Qual è la larghezza nominale della griglia  $B$  da avere per le diverse altezze  $R_H$  dei locali?

- $B = 500$  mm per altezza  $R_H$  del locale da circa 3,5 a 4,0 m
- $B = 600$  mm per altezza  $R_H$  del locale da circa 4,0 a 5,5 m
- $B = 750$  mm per altezza  $R_H$  del locale da circa 5,5 a 7,0 m
- $B = 900$  mm per altezza  $R_H$  del locale  $> 7,0$  m

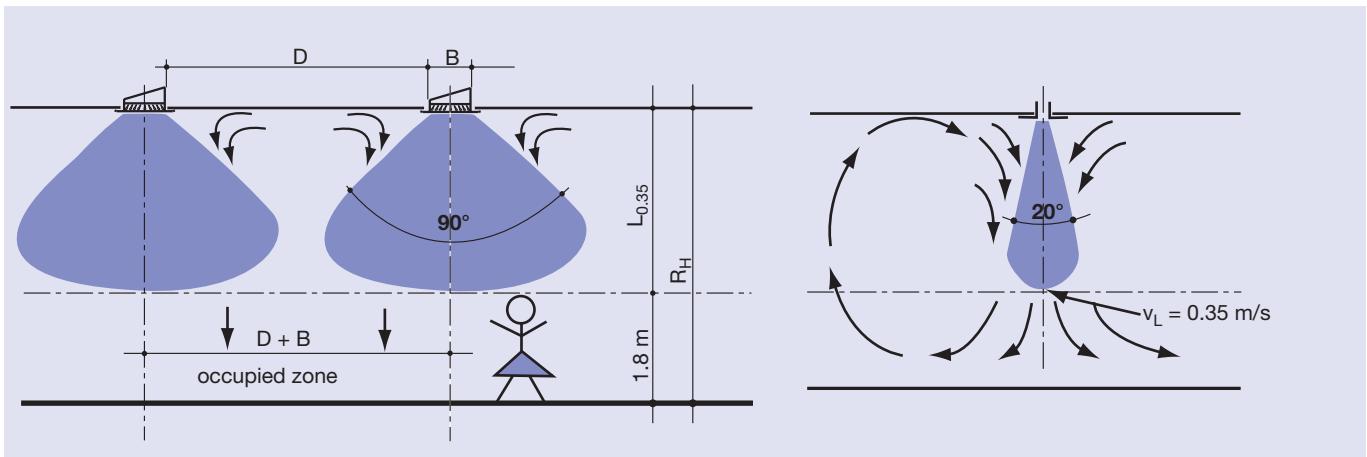
# Immagini del getto

## Immagini del getto con diversa divergenza

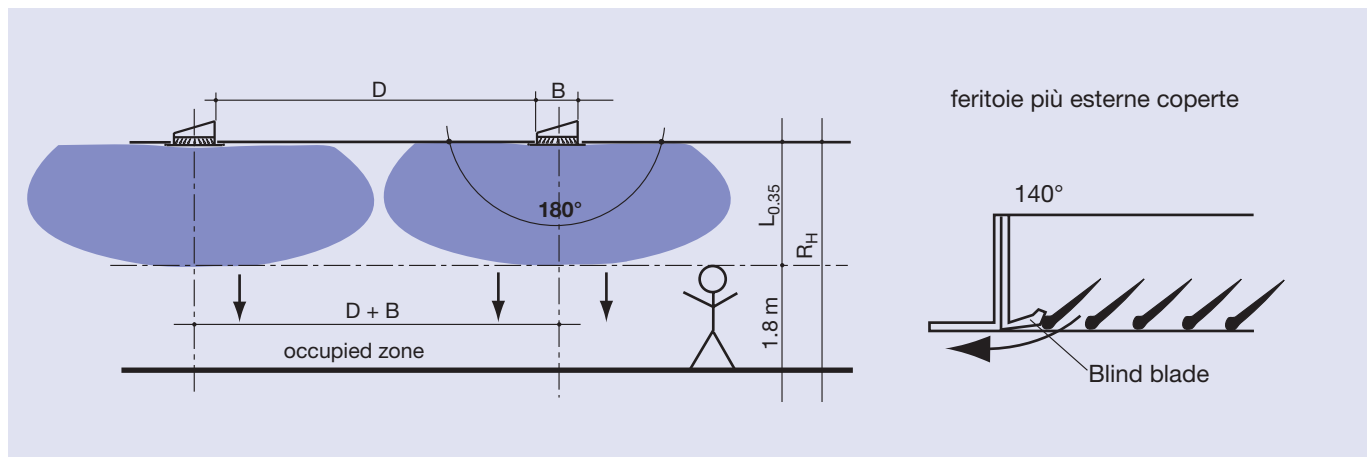
Posizione dell'aletta con divergenza di 84°



Posizione dell'aletta con divergenza di 110°



Posizione dell'aletta con divergenza di 140°



<b>Grille:</b>		<b>500 x 50</b>		Area of air volume rate: = 169 to 270 m <sup>3</sup> /h																									
		Cooling case								Isotherme				Heating case								Distance of grilles D							
		$\Delta t = -10 \text{ K}$				$\Delta t = -5 \text{ K}$				$\Delta t = 0 \text{ K}$				$\Delta t = +10 \text{ K}$				$\Delta t = +20 \text{ K}$											
V	[m <sup>3</sup> /h]	169	203	236	270	169	203	236	270	169	203	236	270	169	203	236	270	169	203	236	270	169	203	236	270	169	203	236	270
V <sub>eff</sub>	[m/s]	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0
RH	[m]	6.0	6.7	7.5	8.2	5.4	6.1	6.8	7.5	7.1	8.0	8.8	9.7																
L0.35	[m] 0°	4.2	4.9	5.7	6.4	3.6	4.3	5.0	5.7	5.3	6.2	7.0	7.9	2.0	2.5	3.0	3.5	0.9	1.2	1.6	2.0	1.1	1.3	1.4	1.6				
RH	[m]	6.3	7.2	8.0	8.9	6.1	6.9	7.7	8.6	6.8	7.8	8.7	9.6																
L0.35	[m] geg.	4.5	5.4	6.2	7.1	4.3	5.1	5.9	6.8	5.0	6.0	6.9	7.8	3.5	4.2	5.0	5.7	3.0	3.7	4.3	5.0	1.2	1.4	1.5	1.7				
RH	[m]	4.7	5.2	5.7	6.2	4.4	4.9	5.4	5.9	5.1	5.7	6.3	6.9																
L0.35	[m] 44°	2.9	3.4	3.9	4.4	2.6	3.1	3.6	4.1	3.3	3.9	4.5	5.1	1.9	2.3	2.7	3.2	1.4	1.8	2.1	2.5	2.2	2.5	2.8	3.2				
RH	[m]	3.7	4.1	4.5	4.8	3.6	4.0	4.3	4.7	3.9	4.3	4.7	5.1																
L0.35	[m] 84°	1.9	2.3	2.7	3.0	1.8	2.2	2.5	2.9	2.1	2.5	2.9	3.3	1.5	1.8	2.2	2.5	1.3	1.6	1.9	2.2	2.1	2.5	2.8	3.1				
RH	[m]	3.2	3.4	3.7	4.0	3.1	3.4	3.7	3.9	3.3	3.5	3.8	4.1																
L0.35	[m] 110°	1.4	1.6	1.9	2.2	1.3	1.6	1.9	2.1	1.5	1.7	2.0	2.3	1.2	1.5	1.7	2.0	1.1	1.4	1.6	1.9	2.2	2.4	2.8	3.3				
RH	[m]	2.9	3.1	3.4	3.6	2.9	3.1	3.3	3.5	2.9	3.2	3.4	3.6																
L0.35	[m] 140°	1.1	1.3	1.6	1.8	1.1	1.3	1.5	1.7	1.1	1.4	1.6	1.8	1.0	1.3	1.5	1.7	1.0	1.2	1.4	1.6	3.7	4.3	5.3	5.9				

<b>Grille:</b>		<b>600 x 50</b>		Area of air volume rate: = 203 to 324 m <sup>3</sup> /h																									
		Cooling case								Isotherme				Heating case								Distance of grilles D							
		$\Delta t = -10 \text{ K}$				$\Delta t = -5 \text{ K}$				$\Delta t = 0 \text{ K}$				$\Delta t = +10 \text{ K}$				$\Delta t = +20 \text{ K}$											
V	[m <sup>3</sup> /h]	203	243	284	324	203	243	284	324	203	243	284	324	203	243	284	324	203	243	284	324	203	243	284	324	203	243	284	324
V <sub>eff</sub>	[m/s]	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0
RH	[m]	6.1	6.8	7.6	8.3	5.5	6.2	6.9	7.6	4.9	5.6	6.2	6.8																
L0.35	[m] 0°	4.3	5.0	5.8	6.5	3.7	4.4	5.1	5.8	3.1	3.8	4.4	5.0	2.0	2.5	3.0	3.5	0.8	1.2	1.6	2.0	1.2	1.3	1.5	1.6				
RH	[m]	6.4	7.3	8.2	9.0	6.1	7.0	7.8	8.7	5.9	6.7	7.5	8.3																
L0.35	[m] geg.	4.6	5.5	6.4	7.2	4.3	5.2	6.0	6.9	4.1	4.9	5.7	6.5	3.5	4.3	5.0	5.8	3.0	3.7	4.4	5.1	1.3	1.4	1.6	1.8				
RH	[m]	4.7	5.3	5.8	6.3	4.5	5.0	5.5	6.0	4.2	4.7	5.2	5.7																
L0.35	[m] 44°	2.9	3.5	4.0	4.5	2.7	3.2	3.7	4.2	2.4	2.9	3.4	3.9	1.9	2.3	2.8	3.2	1.4	1.8	2.1	2.5	2.2	2.6	3.0	3.3				
RH	[m]	3.8	4.1	4.5	4.9	3.7	4.0	4.4	4.7	3.6	3.9	4.3	4.6																
L0.35	[m] 84°	2.0	2.3	2.7	3.1	1.9	2.2	2.6	2.9	1.8	2.1	2.5	2.8	1.5	1.9	2.2	2.5	1.3	1.6	1.9	2.3	2.2	2.5	2.9	3.3				
RH	[m]	3.2	3.5	3.7	4.0	3.2	3.4	3.7	4.0	3.1	3.4	3.6	3.9																
L0.35	[m] 110°	1.4	1.7	1.9	2.2	1.4	1.6	1.9	2.2	1.3	1.6	1.8	2.1	1.2	1.5	1.7	2.0	1.1	1.4	1.6	1.9	2.2	2.6	2.9	3.3				
RH	[m]	2.9	3.2	3.4	3.6	2.9	3.1	3.4	3.6	2.9	3.1	3.3	3.6																
L0.35	[m] 140°	1.1	1.4	1.6	1.8	1.1	1.3	1.6	1.8	1.1	1.3	1.5	1.8	1.1	1.3	1.5	1.7	1.0	1.2	1.4	1.7	3.8	4.7	5.3	5.9				

# Dati tecnici

<b>Grille:</b>		<b>750 x 50</b>		Area of air volume rate: = 253 to 405 m <sup>3</sup> /h																									
		Cooling case								Isotherme				Heating case								Distance of grilles D							
		$\Delta t = -10 \text{ K}$				$\Delta t = -5 \text{ K}$				$\Delta t = 0 \text{ K}$				$\Delta t = +10 \text{ K}$				$\Delta t = +20 \text{ K}$											
V	[m <sup>3</sup> /h]	253	304	354	405	253	304	354	405	253	304	354	405	253	304	354	405	253	304	354	405	253	304	354	405	253	304	354	405
v <sub>eff</sub>	[m/s]	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0
RH	[m]	6.2	7.0	7.7	8.5	5.6	6.3	7.0	7.7	5.0	5.6	6.3	6.9																
L0.35	[m] 0°	4.4	5.2	5.9	6.7	3.8	4.5	5.2	5.9	3.2	3.8	4.5	5.1	2.0	2.5	3.0	3.5	0.8	1.1	1.5	1.9	1.3	1.5	1.6	1.8				
RH	[m]	6.5	7.4	8.3	9.2	6.2	7.1	7.9	8.8	5.9	6.8	7.6	8.4																
L0.35	[m] geg.	4.7	5.6	6.5	7.4	4.4	5.3	6.1	7.0	4.1	5.0	5.8	6.6	3.6	4.3	5.1	5.9	3.0	3.7	4.4	5.1	1.4	1.5	1.7	1.9				
RH	[m]	4.8	5.3	5.9	6.4	4.5	5.0	5.5	6.1	4.2	4.7	5.2	5.7																
L0.35	[m] 44°	3.0	3.5	4.1	4.6	2.7	3.2	3.7	4.3	2.4	2.9	3.4	3.9	1.9	2.3	2.8	3.2	1.4	1.8	2.1	2.5	2.4	2.7	3.1	3.4				
RH	[m]	3.8	4.2	4.6	4.9	3.7	4.1	4.4	4.8	3.6	3.9	4.3	4.6																
L0.35	[m] 84°	2.0	2.4	2.8	3.1	1.9	2.3	2.6	3.0	1.8	2.1	2.5	2.8	1.6	1.9	2.2	2.6	1.4	1.7	2.0	2.3	2.3	2.7	3.1	3.4				
RH	[m]	3.2	3.5	3.8	4.1	3.2	3.5	3.7	4.0	3.1	3.4	3.7	3.9																
L0.35	[m] 110°	1.4	1.7	2.0	2.3	1.4	1.7	1.9	2.2	1.3	1.6	1.9	2.1	1.2	1.5	1.8	2.0	1.2	1.4	1.7	1.9	2.3	2.7	3.1	3.5				
RH	[m]	2.9	3.2	3.4	3.6	2.9	3.2	3.4	3.6	2.9	3.1	3.4	3.6																
L0.35	[m] 140°	1.1	1.4	1.6	1.8	1.1	1.4	1.6	1.8	1.1	1.3	1.6	1.8	1.1	1.3	1.5	1.7	1.0	1.3	1.5	1.7	3.8	4.8	5.4	6.0				

<b>Grille:</b>		<b>500 x 100</b>		Area of air volume rate: = 338 to 540 m <sup>3</sup> /h																									
		Cooling case								Isotherme				Heating case								Distance of grilles D							
		$\Delta t = -10 \text{ K}$				$\Delta t = -5 \text{ K}$				$\Delta t = 0 \text{ K}$				$\Delta t = +10 \text{ K}$				$\Delta t = +20 \text{ K}$											
V	[m <sup>3</sup> /h]	338	405	473	540	338	405	473	540	338	405	473	540	338	405	473	540	338	405	473	540	338	405	473	540	338	405	473	540
v <sub>eff</sub>	[m/s]	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0
RH	[m]	11.0	12.5	14.0		9.2	10.6	11.9	13.2	7.5	8.6	9.7	10.8																
L0.35	[m] 0°	9.2	10.7	12.2	-	7.4	8.8	10.1	11.4	5.7	6.8	7.9	9.0	2.1	2.8	3.6	4.4	-	-	-	-	2.1	2.4	2.7	3.0				
RH	[m]	10.8	12.5	14.1		10.0	11.5	13.1	14.7	9.1	10.6	12.1	13.6																
L0.35	[m] geg.	9.0	10.7	12.3	-	8.2	9.7	11.3	12.9	7.3	8.8	10.3	11.8	5.7	7.0	8.3	9.6	4.1	5.1	6.3	7.4	2.1	2.4	2.7	3.1				
RH	[m]	7.7	8.8	9.8	10.8	6.9	7.9	8.9	9.8	6.2	7.0	7.9	8.8																
L0.35	[m] 44°	5.9	7.0	8.0	9.0	5.1	6.1	7.1	8.0	4.4	5.2	6.1	7.0	2.8	3.5	4.2	4.9	1.2	1.8	2.3	2.8	4.1	4.9	5.5	6.2				
RH	[m]	5.6	6.3	7.0	7.7	5.3	6.0	6.6	7.3	5.0	5.6	6.2	6.9																
L0.35	[m] 84°	3.8	4.5	5.2	5.9	3.5	4.2	4.8	5.5	3.2	3.8	4.4	5.1	2.5	3.1	3.7	4.2	1.9	2.4	2.9	3.4	3.9	4.6	5.2	6.3				
RH	[m]	4.4	4.9	5.4	5.9	4.3	4.8	5.3	5.8	4.2	4.6	5.1	5.6																
L0.35	[m] 110°	2.6	3.1	3.6	4.1	2.5	3.0	3.5	4.0	2.4	2.8	3.3	3.8	2.1	2.6	3.0	3.5	1.9	2.3	2.7	3.1	4.1	4.7	5.4	6.1				
RH	[m]	3.9	4.3	4.7	5.1	1.8	1.8	4.6	5.0	3.8	4.2	4.6	5.0																
L0.35	[m] 140°	2.1	2.5	2.9	3.3	2.0	2.4	2.8	3.2	2.0	2.4	2.8	3.2	1.9	2.3	2.6	3.0	1.8	2.1	2.5	2.9	6.8	8.0	9.3	10.5				

<b>Grille:</b>		<b>600 x 100</b>		<b>Area of air volume rate: = 405 to 648 m³/h</b>																									
		<b>Cooling case</b>								<b>Isotherme</b>				<b>Heating case</b>								<b>Distance of grilles D</b>							
		$\Delta t = -10 \text{ K}$				$\Delta t = -5 \text{ K}$				$\Delta t = 0 \text{ K}$				$\Delta t = +10 \text{ K}$				$\Delta t = +20 \text{ K}$											
<b>V</b>	[m³/h]	405	486	567	648	405	486	567	648	405	486	567	648	405	486	567	648	405	486	567	648	405	486	567	648	405	486	567	648
<b>V<sub>eff</sub></b>	[m/s]	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0
<b>RH</b>	[m]	11.4	13.0	14.6		9.5	10.9	12.3	13.6	7.6	8.8	9.9	11.1																
<b>L0.35</b>	[m] 0°	9.6	11.2	12.8	-	7.7	9.1	10.5	11.8	5.8	7.0	8.1	9.3	2.0	2.7	3.5	4.3	-	-	-	-	2.3	2.6	2.9	3.2				
<b>RH</b>	[m]	11.1	12.8	14.5		10.2	11.9	13.5	15.1	9.4	10.9	12.4	13.9																
<b>L0.35</b>	[m] geg.	9.3	11.0	12.7	-	8.4	10.1	11.7	13.3	7.6	9.1	10.6	12.1	5.8	7.1	8.4	9.7	4.0	5.1	6.2	7.4	2.2	2.5	2.9	3.2				
<b>RH</b>	[m]	7.9	9.0	10.1	11.2	7.1	8.1	9.1	10.1	6.3	7.2	8.1	9.0																
<b>L0.35</b>	[m] 44°	6.1	7.2	8.3	9.4	5.3	6.3	7.3	8.3	4.5	5.4	6.3	7.2	2.8	3.5	4.2	4.9	1.1	1.6	2.2	2.7	4.3	5.0	5.8	6.5				
<b>RH</b>	[m]	5.7	6.5	7.2	7.9	5.4	6.1	6.8	7.5	5.1	5.7	6.4	7.0																
<b>L0.35</b>	[m] 84°	3.9	4.7	5.4	6.1	3.6	4.3	5.0	5.7	3.3	3.9	4.6	5.2	2.6	3.1	3.7	4.3	1.9	2.4	2.9	3.4	4.0	4.8	5.5	6.1				
<b>RH</b>	[m]	4.5	5.0	5.6	6.1	4.4	4.9	5.4	5.9	4.2	4.7	5.2	5.7																
<b>L0.35</b>	[m] 110°	2.7	3.2	3.8	4.3	2.6	3.1	3.6	4.1	2.4	2.9	3.4	3.9	2.2	2.6	3.1	3.5	1.9	2.3	2.7	3.2	4.0	4.7	5.5	6.1				
<b>RH</b>	[m]	4.0	4.4	4.8	5.2	3.9	4.3	4.7	5.1	3.8	4.2	4.6	5.1																
<b>L0.35</b>	[m] 140°	2.2	2.6	3.0	3.4	2.1	2.5	2.9	3.3	2.0	2.4	2.8	3.3	1.9	2.3	2.7	3.1	1.8	2.2	2.6	2.9	7.2	8.4	9.7	10.9				

<b>Grille:</b>		<b>750 x 100</b>		<b>Area of air volume rate: = 506 to 810 m³/h</b>																									
		<b>Cooling case</b>								<b>Isotherme</b>				<b>Heating case</b>								<b>Distance of grilles D</b>							
		$\Delta t = -10 \text{ K}$				$\Delta t = -5 \text{ K}$				$\Delta t = 0 \text{ K}$				$\Delta t = +10 \text{ K}$				$\Delta t = +20 \text{ K}$											
<b>V</b>	[m³/h]	506	608	709	810	506	608	709	810	506	608	709	810	506	608	709	810	506	608	709	810	506	608	709	810	506	608	709	810
<b>V<sub>eff</sub></b>	[m/s]	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0
<b>RH</b>	[m]	11.9	13.6			9.8	11.3	12.7	14.1	7.8	9.0	10.2	11.4																
<b>L0.35</b>	[m] 0°	10.1	11.8	-	-	8.0	9.5	10.9	12.3	6.0	7.2	8.4	9.6	1.9	2.6	3.4	4.1	-	-	-	-	2.4	2.8	3.1	3.4				
<b>RH</b>	[m]	11.5	13.3	15.0		10.5	12.2	13.9	15.5	9.6	11.1	12.7	14.2																
<b>L0.35</b>	[m] geg.	9.7	11.5	13.2	-	8.7	10.4	12.1	13.7	7.8	9.3	10.9	12.4	5.9	7.2	8.6	9.9	4.0	5.1	6.2	7.4	2.4	2.7	3.1	3.4				
<b>RH</b>	[m]	8.2	9.3	10.5	11.6	7.3	8.3	9.4	10.4	6.4	7.3	8.3	9.2																
<b>L0.35</b>	[m] 44°	6.4	7.5	8.7	9.8	5.5	6.5	7.6	8.6	4.6	5.5	6.5	7.4	2.8	3.5	4.2	5.0	1.0	1.5	2.0	2.6	4.6	5.3	6.1	6.8				
<b>RH</b>	[m]	5.9	6.6	7.4	8.1	5.5	6.2	6.9	7.6	5.2	5.8	6.5	7.2																
<b>L0.35</b>	[m] 84°	4.1	4.8	5.6	6.3	3.7	4.4	5.1	5.8	3.4	4.0	4.7	5.4	2.6	3.2	3.8	4.4	1.9	2.4	2.9	3.4	4.3	5.0	5.7	6.4				
<b>RH</b>	[m]	4.6	5.2	5.7	6.2	4.5	5.0	5.5	6.0	4.3	4.8	5.3	5.8																
<b>L0.35</b>	[m] 110°	2.8	3.4	3.9	4.4	2.7	3.2	3.7	4.2	2.5	3.0	3.5	4.0	2.2	2.7	3.2	3.6	1.9	2.3	2.8	3.2	4.2	5.0	5.7	6.4				
<b>RH</b>	[m]	4.0	4.5	4.9	5.3	4.0	4.4	4.8	5.2	3.9	4.3	4.7	5.2																
<b>L0.35</b>	[m] 140°	2.2	2.7	3.1	3.5	2.2	2.6	3.0	3.4	2.1	2.5	2.9	3.4	2.0	2.4	2.8	3.2	1.8	2.2	2.6	3.0	7.3	8.8	10.1	11.3				

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<b>Grille:</b>		<b>900 x 100</b>		Area of air volume rate: = 608 to 972 m <sup>3</sup> /h																									
		Cooling case								Isotherme				Heating case								Distance of grilles D							
		$\Delta t = -10\text{ K}$				$\Delta t = -5\text{ K}$				$\Delta t = 0\text{ K}$				$\Delta t = +10\text{ K}$				$\Delta t = +20\text{ K}$											
V	[m <sup>3</sup> /h]	608	729	851	972	608	729	851	972	608	729	851	972	608	729	851	972	608	729	851	972	608	729	851	972	608	729	851	972
V <sub>eff</sub>	[m/s]	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0
RH	[m]	12.2	13.9			10.1	11.5	13.0	14.4	7.9	9.1	10.3	11.6																
L0.35	[m] 0°	10.4	12.1	-	-	8.3	9.7	11.2	12.6	6.1	7.3	8.5	9.8	1.8	2.5	3.3	4.0	-	-	-	-	2.6	2.9	3.3	3.6				
RH	[m]	11.7	13.6			10.7	12.4	14.1		9.7	11.3	12.9	14.5																
L0.35	[m] geg.	9.9	11.8	-	-	8.9	10.6	12.3	-	7.9	9.5	11.1	12.7	5.9	7.3	8.6	10.0	3.9	5.0	6.2	7.4	2.5	2.9	3.2	3.6				
RH	[m]	8.4	9.6	10.7	11.8	7.4	8.5	9.5	10.6	6.5	7.4	8.4	9.3																
L0.35	[m] 44°	6.6	7.8	8.9	10.0	5.6	6.7	7.7	8.8	4.7	5.6	6.6	7.5	2.8	3.5	4.3	5.0	-	1.4	1.9	2.5	4.8	5.6	6.3	7.0				
RH	[m]	6.0	6.8	7.5	8.3	5.6	6.3	7.1	7.8	5.2	5.9	6.6	7.3																
L0.35	[m] 84°	4.2	5.0	5.7	6.5	3.8	4.5	5.3	6.0	3.4	4.1	4.8	5.5	2.6	3.2	3.8	4.4	1.9	2.4	2.9	3.4	4.5	5.3	5.9	6.7				
RH	[m]	4.7	5.2	5.8	6.3	4.5	5.1	5.6	6.1	4.4	4.9	5.4	5.9																
L0.35	[m] 110°	2.9	3.4	4.0	4.5	2.7	3.3	3.8	4.3	2.6	3.1	3.6	4.1	2.2	2.7	3.2	3.7	1.9	2.4	2.8	3.3	4.4	5.1	5.9	6.6				
RH	[m]	4.1	4.5	5.0	5.4	4.0	4.4	4.9	5.3	3.9	4.4	4.8	5.2																
L0.35	[m] 140°	2.3	2.7	3.2	3.6	2.2	2.6	3.1	3.5	2.1	2.6	3.0	3.4	2.0	2.4	2.8	3.2	1.9	2.3	2.7	3.1	7.7	8.9	10.4	11.7				

<b>Grille:</b>		<b>500 x 150</b>		Area of air volume rate: = 506 to 810 m <sup>3</sup> /h																									
		Cooling case								Isotherme				Heating case								Distance of grilles D							
		$\Delta t = -10\text{ K}$				$\Delta t = -5\text{ K}$				$\Delta t = 0\text{ K}$				$\Delta t = +10\text{ K}$				$\Delta t = +20\text{ K}$											
V	[m <sup>3</sup> /h]	506	608	709	810	506	608	709	810	506	608	709	810	506	608	709	810	506	608	709	810	506	608	709	810	506	608	709	810
V <sub>eff</sub>	[m/s]	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0
RH	[m]																												
L0.35	[m] 0°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RH	[m]																												
L0.35	[m] geg.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RH	[m]	10.7	12.2	13.7		9.2	10.6	12.0	13.3	7.8	9.8	10.2	11.4																
L0.35	[m] 44°	8.9	10.4	11.9	-	7.4	8.8	10.2	11.5	6.0	7.2	8.4	9.6	3.2	4.1	5.0	5.9	-	-	1.5	2.1	6.1	7.1	8.1	9.0				
RH	[m]	7.3	8.3	9.4	10.3	6.8	7.7	8.6	9.6	6.2	7.1	7.8	8.8																
L0.35	[m] 84°	5.5	6.5	7.6	8.5	5.0	5.9	6.8	7.8	4.4	5.3	6.0	7.0	3.2	4.0	4.7	5.5	2.1	2.7	3.3	3.9	5.5	6.5	7.5	8.3				
RH	[m]	5.6	6.3	7.0	7.7	5.3	6.0	6.7	7.4	5.1	5.7	6.4	7.1																
L0.35	[m] 110°	3.8	4.5	5.2	5.9	3.5	4.2	4.9	5.6	3.3	3.9	4.6	5.3	2.8	3.4	4.0	4.6	2.3	2.9	3.4	4.0	5.4	6.3	7.3	8.2				
RH	[m]	4.7	5.3	5.9	6.4	4.6	5.2	5.8	6.3	4.5	5.1	5.6	6.2																
L0.35	[m] 140°	2.9	3.5	4.1	4.6	2.8	3.4	4.0	4.5	2.7	3.3	3.8	4.4	2.5	3.1	3.6	4.1	2.3	2.8	3.3	3.9	9.3	11.2	13.0	14.6				

<b>Grille:</b>		<b>600 x 150</b>		Area of air volume rate: = 608 to 972 m <sup>3</sup> /h																									
		Cooling case								Isotherme				Heating case								Distance of grilles D							
		$\Delta t = -10\text{ K}$				$\Delta t = -5\text{ K}$				$\Delta t = 0\text{ K}$				$\Delta t = +10\text{ K}$				$\Delta t = +20\text{ K}$											
V	[m <sup>3</sup> /h]	608	729	851	972	608	729	851	972	608	729	851	972	608	729	851	972	608	729	851	972	608	729	851	972	608	729	851	972
V <sub>eff</sub>	[m/s]	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0
RH	[m]																												
L0.35	[m] 0°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RH	[m]																												
L0.35	[m] geg.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RH	[m]	11.5	12.8	14.4		9.6	11.1	12.5	13.9	8.1	9.3	10.6	11.8																
L0.35	[m] 44°	9.7	11.0	12.6	-	7.8	9.3	10.7	12.1	6.3	7.5	8.8	10.0	3.1	4.0	4.9	5.9	-	-	1.1	1.7	6.5	7.5	8.6	9.6				
RH	[m]	7.6	8.7	9.7	10.8	7.0	8.0	9.0	9.9	6.4	7.3	8.2	9.1																
L0.35	[m] 84°	5.8	6.9	7.9	9.0	5.2	6.2	7.2	8.1	4.6	5.5	6.4	7.3	3.3	4.0	4.8	5.6	2.0	2.6	3.2	3.9	5.8	6.9	7.8	8.9				
RH	[m]	5.7	6.5	7.2	8.0	5.5	6.2	6.9	7.6	5.2	5.9	6.6	7.3																
L0.35	[m] 110°	3.9	4.7	5.4	6.2	3.7	4.4	5.1	5.8	3.4	4.1	4.8	5.5	2.9	3.5	4.1	4.8	2.4	2.9	3.5	4.1	5.6	6.7	7.6	8.7				
RH	[m]	4.9	5.5	6.1	6.6	4.8	5.3	5.9	6.5	4.6	5.2	5.8	6.4																
L0.35	[m] 140°	3.1	3.7	4.3	4.8	3.0	3.5	4.1	4.7	2.8	3.4	4.0	4.6	2.6	3.2	3.7	4.3	2.4	2.9	3.5	4.0	10.0	11.8	13.7	15.2				



<b>Grille:</b>		<b>750 x 150</b>		Area of air volume rate: = 759 to 1215 m <sup>3</sup> /h																									
		Cooling case								Isotherme				Heating case								Distance of grilles D							
		$\Delta t = -10\text{ K}$				$\Delta t = -5\text{ K}$				$\Delta t = 0\text{ K}$				$\Delta t = +10\text{ K}$				$\Delta t = +20\text{ K}$											
V	[m <sup>3</sup> /h]	759	911	1063	1215	759	911	1063	1215	759	911	1063	1215	759	911	1063	1215	759	911	1063	1215	759	911	1063	1215	759	911	1063	1215
v <sub>eff</sub>	[m/s]	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0
RH	[m]																												
L0.35	[m]	0°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
RH	[m]																												
L0.35	[m]	geg.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
RH	[m]		11.8	13.5			10.1	11.6	13.1	14.6	8.3	9.6	10.9	12.2															
L0.35	[m]	44°	10.0	11.7	-	-	8.3	9.8	11.3	12.8	6.5	7.8	9.1	10.4	3.0	3.9	4.9	5.8	-	-	-	1.2	7.0	8.1	9.2	10.3			
RH	[m]		8.0	9.1	10.2	11.3	7.3	8.3	9.3	10.3	6.5	7.5	8.4	9.4															
L0.35	[m]	84°	6.2	7.3	8.4	9.5	5.5	6.5	7.5	8.5	4.7	5.7	6.6	7.6	3.3	4.1	4.9	5.7	1.9	2.5	3.2	3.8	6.3	7.4	8.4	9.4			
RH	[m]		5.9	6.7	7.5	8.3	5.7	6.4	7.1	7.9	5.4	6.1	6.8	7.5															
L0.35	[m]	110°	4.1	4.9	5.7	6.5	3.9	4.6	5.3	6.1	3.6	4.3	5.0	5.7	3.0	3.6	4.3	4.9	2.4	3.0	3.6	4.2	6.0	7.0	8.1	9.2			
RH	[m]		5.0	5.6	6.3	6.9	4.9	5.5	6.1	6.7	4.8	5.4	6.0	6.5															
L0.35	[m]	140°	3.2	3.8	4.5	5.1	3.1	3.7	4.3	4.9	3.0	3.6	4.2	4.7	2.7	3.3	3.9	4.4	2.5	3.0	3.6	4.1	10.4	12.2	14.4	16.3			

<b>Grille:</b>		<b>900 x 150</b>		Area of air volume rate: = 911 to 1458 m <sup>3</sup> /h																									
		Cooling rate								Isotherme				Heating case								Distance of grilles D							
		$\Delta t = -10\text{ K}$				$\Delta t = -5\text{ K}$				$\Delta t = 0\text{ K}$				$\Delta t = +10\text{ K}$				$\Delta t = +20\text{ K}$											
V	[m <sup>3</sup> /h]	911	1094	1276	1458	911	1094	1276	1458	911	1094	1276	1458	911	1094	1276	1458	911	1094	1276	1458	911	1094	1276	1458	911	1094	1276	1458
v <sub>eff</sub>	[m/s]	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0
RH	[m]																												
L0.35	[m]	0°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
RH	[m]																												
L0.35	[m]	geg.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
RH	[m]		12.3	14.1			10.4	12.0	13.5	15.0	8.5	9.9	11.2	12.5															
L0.35	[m]	44°	10.5	12.3	-	-	8.6	10.2	11.7	13.2	6.7	8.1	9.4	10.7	2.9	3.9	4.8	5.7	-	-	-	-	7.4	8.5	9.6	10.8			
RH	[m]		8.2	9.4	10.5	11.6	7.4	8.5	9.6	10.6	6.7	7.7	8.6	9.6															
L0.35	[m]	84°	6.4	7.6	8.7	9.8	5.6	6.7	7.8	8.8	4.9	5.9	6.8	7.8	3.3	4.1	5.0	5.8	1.8	2.4	3.1	3.7	6.6	7.7	8.8	9.8			
RH	[m]		6.1	6.9	7.7	8.5	5.8	6.5	7.3	8.1	5.5	6.2	6.9	7.7															
L0.35	[m]	110°	4.3	5.1	5.9	6.7	4.0	4.7	5.5	6.3	3.7	4.4	5.1	5.9	3.0	3.7	4.4	5.0	2.4	3.0	3.6	4.2	6.3	7.4	8.5	9.5			
RH	[m]		5.1	5.8	6.4	7.0	5.0	5.6	6.2	6.9	4.9	5.5	6.1	6.7															
L0.35	[m]	140°	3.3	4.0	4.6	5.2	3.2	3.8	4.4	5.1	3.1	3.7	4.3	4.9	2.8	3.4	4.0	4.5	2.5	3.1	3.6	4.2	10.8	12.9	14.8	16.7			

<b>Grille:</b>		<b>500 x 200</b>		Area of air volume rate: = 675 à 1080 m <sup>3</sup> /h																									
		Cooling case								Isotherme				Heating case								Distance of grilles D							
		$\Delta t = -10\text{ K}$				$\Delta t = -5\text{ K}$				$\Delta t = 0\text{ K}$				$\Delta t = +10\text{ K}$				$\Delta t = +20\text{ K}$											
V	[m <sup>3</sup> /h]	675	810	945	1080	675	810	945	1080	675	810	945	1080	675	810	945	1080	675	810	945	1080	675	810	945	1080	675	810	945	1080
v <sub>eff</sub>	[m/s]	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0
RH	[m]																												
L0.35	[m]	0°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
RH	[m]																												
L0.35	[m]	geg.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
RH	[m]		13.4				11.3	13.1	14.8			9.3	10.8	12.2	13.7														
L0.35	[m]	44°	11.6	-	-	-	9.5	11.3	13.0	-	-	7.5	9.0	10.4	11.9	3.3	4.3	5.3	6.4	-	-	-	-	7.9	9.2	10.4	11.7		
RH	[m]		8.9	10.2	11.5	12.7	8.1	9.3	10.4	11.6	7.2	8.3	9.4	10.5															
L0.35	[m]	84°	7.1	8.4	9.7	10.9	6.3	7.5	8.6	9.8	5.4	6.5	7.6	8.7	3.7	4.6	5.5	6.4	2.0	2.7	3.4	4.2	7.0	8.3	9.5	10.6			
RH	[m]		6.6	7.5	8.3	9.2	6.2	7.1	7.9	8.8	5.9	6.7	7.5	8.3															
L0.35	[m]	110°	4.8	5.7	6.5	7.4	4.4	5.3	6.1	7.0	4.1	4.9	5.7	6.5	3.4	4.1	4.8	5.6	2.7	3.3	4.0	4.7	6.8	8.0	9.0	10.3			
RH	[m]		5.5	6.2	6.9	7.6	5.3	6.0	6.7	7.4	5.2	5.9	6.5	7.2															
L0.35	[m]	140°	3.7	4.4	5.1	5.8	3.5	4.2	4.9	5.6	3.4	4.1	4.7	5.4	3.1	3.7	4.4	5.0	2.8	3.4	4.0	4.7	11.8	13.9	16.1	18.3			

# Dati tecnici

<b>Grille:</b>		<b>600 x 200</b>																								Area of air volume flow: = 810 to 1296 m <sup>3</sup> /h							
		Cooling case								Isotherme				Heating case								Distance of grilles D											
		$\Delta t = -10 \text{ K}$				$\Delta t = -5 \text{ K}$				$\Delta t = 0 \text{ K}$				$\Delta t = +10 \text{ K}$				$\Delta t = +20 \text{ K}$															
V	[m <sup>3</sup> /h]	810	972	1134	1296	810	972	1134	1296	810	972	1134	1296	810	972	1134	1296	810	972	1134	1296	810	972	1134	1296	810	972	1134	1296	810	972	1134	1296
v <sub>eff</sub>	[m/s]	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0
RH	[m]																																
L0.35	[m]	0°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RH	[m]																																
L0.35	[m]	geg.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RH	[m]		14.4																														
L0.35	[m]	44°	12.6	-	-	-	10.2	12.0	-	-	9.6	11.2	12.8	14.3	3.1	4.1	5.2	6.3	-	-	-	-	8.6	9.9	11.3	12.6							
RH	[m]		9.4	10.8	12.1	13.5	8.5	9.7	11.0	12.2	7.5	8.6	9.8	10.9																			
L0.35	[m]	84°	7.6	9.0	10.3	11.7	6.7	7.9	9.2	10.4	5.7	6.8	8.0	9.1	3.8	4.7	5.6	6.6	1.8	2.5	3.3	4.0	7.6	8.9	10.1	11.4							
RH	[m]		6.9	7.8	8.7	9.7	6.5	7.4	8.3	9.2	6.1	6.9	7.8	8.6																			
L0.35	[m]	110°	5.1	6.0	6.9	7.9	4.7	5.6	6.5	7.4	4.3	5.1	6.0	6.8	3.5	4.2	5.0	5.8	2.7	3.4	4.1	4.8	7.2	8.4	9.6	11.0							
RH	[m]		5.7	6.4	7.2	7.9	5.5	6.3	7.0	7.7	5.4	6.1	6.8	7.5																			
L0.35	[m]	140°	3.9	4.6	5.4	6.1	3.7	4.5	5.2	5.9	3.6	4.3	5.0	5.7	3.2	3.9	4.6	5.3	2.9	3.5	4.2	4.8	12.5	14.6	17.1	19.3							

<b>Grille:</b>		<b>750 x 200</b>																Area of air volume rate: = 1013 to 1620 m <sup>3</sup> /h															
		Cooling case								Isotherme				Heating case								Distance of grilles D											
		$\Delta t = -10 \text{ K}$				$\Delta t = -5 \text{ K}$				$\Delta t = 0 \text{ K}$				$\Delta t = +10 \text{ K}$				$\Delta t = +20 \text{ K}$															
V	[m <sup>3</sup> /h]	1013	1215	1418	1620	1013	1215	1418	1620	1013	1215	1418	1620	1013	1215	1418	1620	1013	1215	1418	1620	1013	1215	1418	1620	1013	1215	1418	1620	1013	1215	1418	1620
v <sub>eff</sub>	[m/s]	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0
RH	[m]																																
L0.35	[m]	0°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RH	[m]																																
L0.35	[m]	geg.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RH	[m]																																
L0.35	[m]	44°	-	-	-	-	10.9	12.9	-	-	10.0	11.7	13.3	15.0	2.8	3.9	4.9	6.0	-	-	-	-	9.4	10.8	12.3	13.7							
RH	[m]		10.0	11.5	12.9	14.3	8.9	10.2	11.5	12.9	7.8	9.0	10.2	11.4																			
L0.35	[m]	84°	8.2	9.7	11.1	12.5	7.1	8.4	9.7	11.1	6.0	7.2	8.4	9.6	3.8	4.7	5.7	6.7	1.6	2.3	3.0	3.8	8.2	9.6	11.0	12.3							
RH	[m]		7.2	8.2	9.2	10.2	6.7	7.7	8.6	9.6	6.3	7.2	8.1	9.0																			
L0.35	[m]	110°	5.4	6.4	7.4	8.4	4.9	5.9	6.8	7.8	4.5	5.4	6.3	7.2	3.6	4.4	5.2	6.0	2.7	3.4	4.1	4.8	7.7	9.0	10.4	11.7							
RH	[m]		5.9	6.7	7.5	8.3	5.7	6.5	7.3	8.0	5.5	6.3	7.0	7.8																			
L0.35	[m]	140°	4.1	4.9	5.7	6.5	3.9	4.7	5.5	6.2	3.7	4.5	5.2	6.0	3.4	4.1	4.8	5.5	3.0	3.7	4.3	5.0	13.2	15.6	18.1	20.6							

<b>Grille:</b>		<b>900 x 200</b>		Area of air volume rate: = 1215 to 1944 m <sup>3</sup> /h																						
		Cooling case								Isotherme				Heating case								Distance of grilles D				
		$\Delta t = -10 \text{ K}$				$\Delta t = -5 \text{ K}$				$\Delta t = 0 \text{ K}$				$\Delta t = +10 \text{ K}$				$\Delta t = +20 \text{ K}$								
V	[m <sup>3</sup> /h]	1215	1458	1701	1944	1215	1458	1701	1944	1215	1458	1701	1944	1215	1458	1701	1944	1215	1458	1701	1944	1215	1458	1701	1944	
V <sub>eff</sub>	[m/s]	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	
RH	[m]																									
L0.35	[m]	0°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RH	[m]																									
L0.35	[m]	geg.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RH	[m]																									
L0.35	[m]	44°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RH	[m]		10.4	12.0	13.5	14.9	9.2	10.6	12.0	13.3	8.0	9.3	10.5	11.7												
L0.35	[m]	84°	8.6	10.2	11.7	13.1	7.4	8.8	10.2	11.5	6.2	7.5	8.7	9.9	3.8	4.8	5.7	6.7	1.4	2.1	2.8	3.5	8.7	10.2	11.6	12.9
RH	[m]		7.4	8.5	9.5	10.6	7.0	7.9	8.9	9.9	6.5	7.4	8.3	9.3												
L0.35	[m]	110°	5.6	6.7	7.7	8.8	5.2	6.1	7.1	8.1	4.7	5.6	6.5	7.5	3.7	4.5	5.3	6.2	2.7	3.4	4.1	4.8	8.1	9.5	10.9	12.4
RH	[m]		6.1	6.9	7.7	8.6	5.9	6.7	7.5	8.3	5.7	6.5	7.2	8.0												
L0.35	[m]	140°	4.3	5.1	5.9	6.8	4.1	4.9	5.7	6.5	3.9	4.7	5.4	6.2	3.5	4.2	4.9	5.7	3.1	3.7	4.4	5.1	13.9	16.3	18.8	21.6

<b>Grille:</b>		<b>600 x 250</b>		Area of air volume rate: = 1013 à 1620 m <sup>3</sup> /h																						
		Cooling case								Isotherme				Heating case								Distance of grilles D				
		$\Delta t = -10 \text{ K}$				$\Delta t = -5 \text{ K}$				$\Delta t = 0 \text{ K}$				$\Delta t = +10 \text{ K}$				$\Delta t = +20 \text{ K}$								
V	[m <sup>3</sup> /h]	1013	1215	1418	1620	1013	1215	1418	1620	1013	1215	1418	1620	1013	1215	1418	1620	1013	1215	1418	1620	1013	1215	1418	1620	
V <sub>eff</sub>	[m/s]	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	
RH	[m]																									
L0.35	[m]	0°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RH	[m]																									
L0.35	[m]	geg.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RH	[m]																									
L0.35	[m]	44°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RH	[m]		11.1	12.7	14.3	15.9	9.8	11.3	12.8	14.2	8.5	9.8	11.2	12.5												
L0.35	[m]	84°	9.3	10.9	12.5	14.1	8.0	9.5	11.0	12.4	6.7	8.0	9.4	10.7	4.1	5.2	6.2	7.3	1.6	2.3	3.1	3.9	9.2	10.7	12.2	13.7
RH	[m]		7.9	9.0	10.1	11.2	7.4	8.4	9.5	10.5	6.8	7.8	8.8	9.8												
L0.35	[m]	110°	6.1	7.2	8.3	9.4	5.6	6.6	7.7	8.7	5.0	6.0	7.0	8.0	4.0	4.9	5.8	6.7	2.9	3.7	4.5	5.3	8.6	10.0	11.5	13.0
RH	[m]		6.4	7.3	8.2	9.1	6.2	7.1	7.9	8.8	6.0	6.8	7.7	8.5												
L0.35	[m]	140°	4.6	5.5	6.4	7.3	4.4	5.3	6.1	7.0	4.2	5.0	5.9	6.7	3.7	4.5	5.3	6.1	3.3	4.0	4.8	5.5	14.6	17.4	20.2	23.0

# Dati tecnici

Grille:		750 x 250		Area of air volume rate: = 1266 to 2025 m <sup>3</sup> /h																					
		Cooling case								Isotherme				Heating case								Distance of grilles D			
		$\Delta t = -10 \text{ K}$				$\Delta t = -5 \text{ K}$				$\Delta t = 0 \text{ K}$				$\Delta t = +10 \text{ K}$				$\Delta t = +20 \text{ K}$							
V	[m <sup>3</sup> /h]	1266	1519	1772	2025	1266	1519	1772	2025	1266	1519	1772	2025	1266	1519	1772	2025	1266	1519	1772	2025	1266	1519	1772	2025
v <sub>eff</sub>	[m/s]	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0
RH	[m]																								
L0.35	[m]	0°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RH	[m]																								
L0.35	[m]	geg.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RH	[m]																								
L0.35	[m]	44°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RH	[m]		11.9	13.7						10.4	12.0	13.6													
L0.35	[m]	84°	10.1	11.9	-	-	-	-	-	8.6	10.2	11.8	-	-	-	-	-	-	-	-	-	-	-	-	
RH	[m]		8.4	9.6	10.8	12.0	7.8	8.9	10.0	11.2	7.1	8.2	9.3	10.3											
L0.35	[m]	110°	6.6	7.8	9.0	10.2	6.0	7.1	8.2	9.4	5.3	6.4	7.5	8.5	4.1	5.0	6.0	6.9	2.9	3.7	4.5	5.3	9.3	10.9	
RH	[m]		6.8	7.7	8.7	9.6	6.5	7.4	8.3	9.3	6.3	7.1	8.0	8.9											
L0.35	[m]	140°	5.0	5.9	6.9	7.8	4.7	5.6	6.5	7.5	4.5	5.3	6.2	7.1	3.9	4.8	5.6	6.4	3.4	4.2	5.0	5.8	16.0	18.7	

Grille:		900 x 250		Area of air volume rate: = 1519 to 2430 m <sup>3</sup> /h																					
		Cooling case								Isotherme				Heating case								Distance of grilles D			
		$\Delta t = -10 \text{ K}$				$\Delta t = -5 \text{ K}$				$\Delta t = 0 \text{ K}$				$\Delta t = +10 \text{ K}$				$\Delta t = +20 \text{ K}$							
V	[m <sup>3</sup> /h]	1519	1823	2126	2430	1519	1823	2126	2430	1519	1823	2126	2430	1519	1823	2126	2430	1519	1823	2126	2430	1519	1823	2126	2430
v <sub>eff</sub>	[m/s]	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0
RH	[m]																								
L0.35	[m]	0°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RH	[m]																								
L0.35	[m]	geg.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RH	[m]																								
L0.35	[m]	44°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RH	[m]		12.6	14.5						10.9	12.6	14.3													
L0.35	[m]	84°	10.8	12.7	-	-	-	-	-	9.1	10.8	12.5	-	-	-	-	-	-	-	-	-	-	-	-	
RH	[m]		8.7	10.0	11.3	12.5	8.1	9.3	10.4	11.6	7.4	8.5	9.6	10.7											
L0.35	[m]	110°	6.9	8.2	9.5	10.7	6.3	7.5	8.6	9.8	5.6	6.7	7.8	8.9	4.2	5.2	6.1	7.1	2.8	3.6	4.4	5.3	9.8	11.6	
RH	[m]		7.0	8.0	9.0	10.0	6.7	7.7	8.7	9.6	6.4	7.4	8.3	9.2											
L0.35	[m]	140°	5.2	6.2	7.2	8.2	4.9	5.9	6.9	7.8	4.6	5.6	6.5	7.4	4.1	4.9	5.8	6.7	3.5	4.3	5.1	5.9	16.7	19.8	

<b>Grille:</b>		<b>600 x 300</b>		Area of air volume rate: = 1215 to 1944 m <sup>3</sup> /h																								
		Cooling case								Isotherme				Heating case								Distance of grilles D						
		$\Delta t = -10\text{ K}$				$\Delta t = -5\text{ K}$				$\Delta t = 0\text{ K}$				$\Delta t = +10\text{ K}$				$\Delta t = +20\text{ K}$										
V	[m <sup>3</sup> /h]	1215	1458	1701	1944	1215	1458	1701	1944	1215	1458	1701	1944	1215	1458	1701	1944	1215	1458	1701	1944	1215	1458	1701	1944			
v <sub>eff</sub>	[m/s]	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0			
RH	[m]																											
L0.35	[m]	0°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
RH	[m]																											
L0.35	[m]	geg.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
RH	[m]																											
L0.35	[m]	44°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
RH	[m]		12.6	14.5																								
L0.35	[m]	84°	10.8	12.7	-	-	-	-	9.2	10.9	12.6	-	7.6	9.1	10.6	12.2	4.4	5.6	6.7	7.9	1.2	2.0	2.8	3.7	10.6	12.4	14.1	15.9
RH	[m]		8.8	10.1	11.4	12.6			8.1	9.4	10.6	11.8	7.5	8.6	9.8	10.9												
L0.35	[m]	110°	7.0	8.3	9.6	10.8	6.3	7.6	8.8	10.0	5.7	6.8	8.0	9.1	4.4	5.4	6.4	7.4	3.1	3.9	4.8	5.7	9.8	11.5	13.3	14.9		
RH	[m]		7.1	8.1	9.1	10.1	6.8	7.8	8.8	9.8	6.5	7.5	8.4	9.4														
L0.35	[m]	140°	5.3	6.3	7.3	8.3	5.0	6.0	7.0	8.0	4.7	5.7	6.6	7.6	4.2	5.1	6.0	6.9	3.7	4.5	5.3	6.1	16.8	19.9	23.0	26.1		

<b>Grille:</b>		<b>900 x 300</b>		Area of air volume rate: = 1823 to 2916 m <sup>3</sup> /h																									
		Cooling case								Isotherme				Heating case								Distance of grilles D							
		$\Delta t = -10\text{ K}$				$\Delta t = -5\text{ K}$				$\Delta t = 0\text{ K}$				$\Delta t = +10\text{ K}$				$\Delta t = +20\text{ K}$											
V	[m <sup>3</sup> /h]	1823	2187	2552	2916	1823	2187	2552	2916	1823	2187	2552	2916	1823	2187	2552	2916	1823	2187	2552	2916	1823	2187	2552	2916	1823	2187	2552	2916
v <sub>eff</sub>	[m/s]	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0	2.5	3.0	3.5	4.0
RH	[m]																												
L0.35	[m]	0°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
RH	[m]																												
L0.35	[m]	geg.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
RH	[m]																												
L0.35	[m]	44°	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
RH	[m]		14.7																										
L0.35	[m]	84°	12.9	-	-	-	-	10.7	12.7	-	-	8.5	10.3	12.0	-	4.2	5.4	6.7	7.9	-	-	1.4	2.2	12.7	14.8	16.9	18.9		
RH	[m]		10.0	11.5	12.9	14.4	9.1	10.5	11.9	13.2	8.2	9.5	10.8	12.1															
L0.35	[m]	110°	8.2	9.7	11.1	12.6	7.3	8.7	10.1	11.4	6.4	7.7	9.0	10.3	4.6	5.7	6.8	7.9	2.9	3.7	4.6	5.6	11.6	13.6	15.5	17.5			
RH	[m]		7.9	9.0	10.2	11.3	7.5	8.6	9.7	10.8	7.1	8.2	9.3	10.3															
L0.35	[m]	140°	6.1	7.2	8.4	9.5	5.7	6.8	7.9	9.0	5.3	6.4	7.5	8.5	4.6	5.6	6.6	7.6	3.9	4.8	5.7	6.6	19.5	22.9	26.6	30.0			

# Disposizione delle griglie

## Scelta dei tipi di canale e griglia

Condotti rettangolari con: DG / DGL 1 - 17

Condotti circolari con: DGR1 - DGRA1 / DGRA1 - DGRA17 in base al diametro del canale

## Disposizione delle griglie nel canale

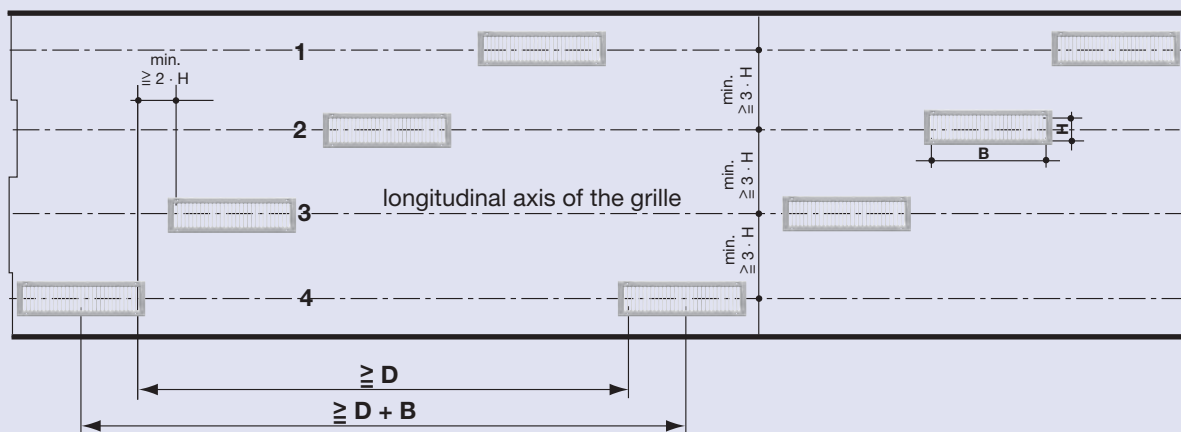
La disposizione sfalsata delle griglie è necessaria in ragione della grande larghezza del flusso causata dalla posizione divergente delle alette.

## Disposizione in un canale rettangolare (con DG o DGL)

Impostazioni possibili delle alette:

H = da 50 a 250 mm; divergenza a 84°, 110°, 140°

Vista del canale dal basso



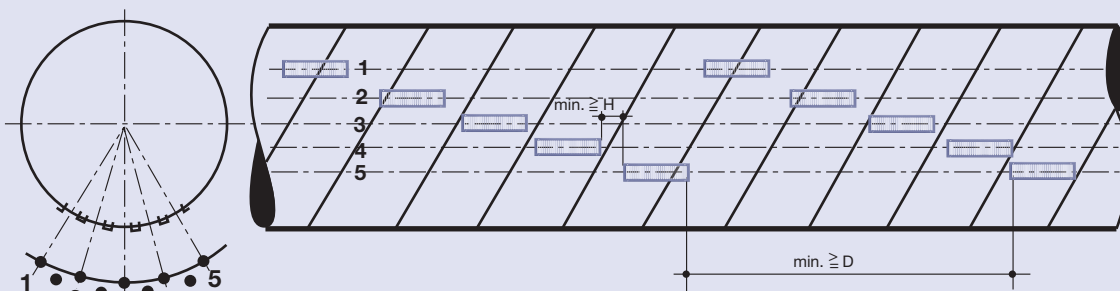
## Disposizione in canali circolari (con DGR / DGRA)

Impostazioni possibili delle alette:

H = 50 mm, 84°, 110°, 140° di divergenza possibile

H  $\geq$  100 mm, 84°, 110° di divergenza possibile

Vista del canale dal basso



- Angle depending of duct diameter and nominal grille size: ca. 15° to 30°

# Installazione delle griglie

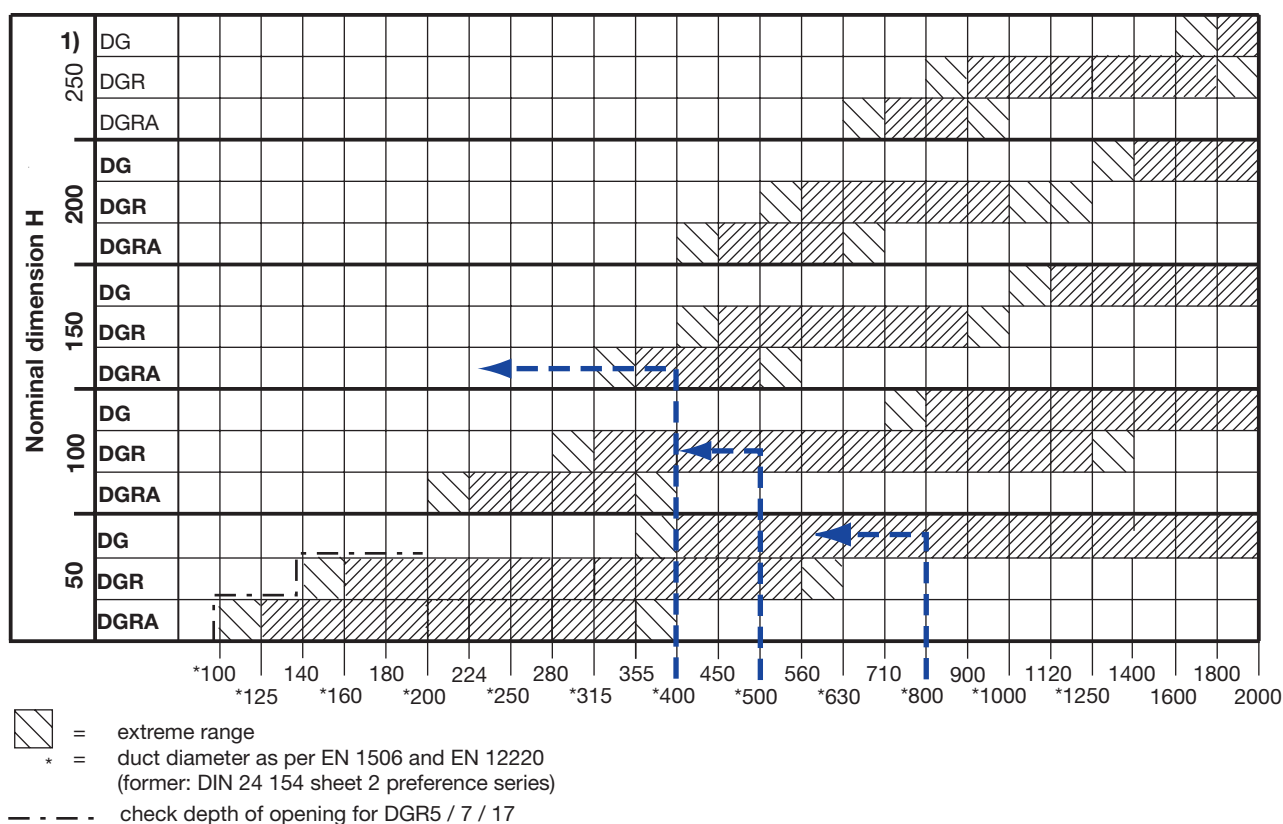
## Installazione delle griglie

DG : con viti  
 DGL : senza viti  
 DGR : con o senza viti

Per ulteriori dettagli consultare le brochure: L-02-1-01i,  
 L-02-1-09i, L-02-2-01i

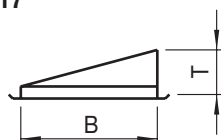
## Are di applicazione di DGR

La tabella seguente mostra i campi di diametro dei tubi per i quali è possibile utilizzare una griglia con una determinata altezza H.



1) Altezza nominale della griglia H = 250 **non** è una dimensione disponibile a magazzino

## Profondità di installazione T per DGR5 / 7 / 17



B = Nominal width		200	300	400	500	600	750	900 <sup>2)</sup>	mm
T	DGR5	90	100	110	115	125	145	170	mm
	DGR7 / 17	max.155 (100% open)							

2) Larghezza nominale della griglia B = 900 **non** è una dimensione disponibile a magazzino

# Disposizione nel locale · Informazioni sulla rumorosità

## Disposizione dei canali nel locale

Ove possibile, i canali devono essere distribuiti uniformemente nella stanza nella vista in pianta e sul soffitto.



## Informazioni sulla rumorosità delle griglie di diffusione TROX HESCO

Aria di mandata: DG1 vedere diagramma L-02-5-01i, pagina 19 e seguenti  
DG6 vedere diagramma L-02-5-01i, pagina 19 e seguenti

Aria di ripresa: DG8 vedere diagramma L-02-5-01i, pagina 19 e seguenti

## Diagrammi di selezione per griglie di diffusione TROX HESCO con uscita orizzontale

Vedere "Griglia di diffusione serie DG..., Dimensionamento", L-02-5-01i