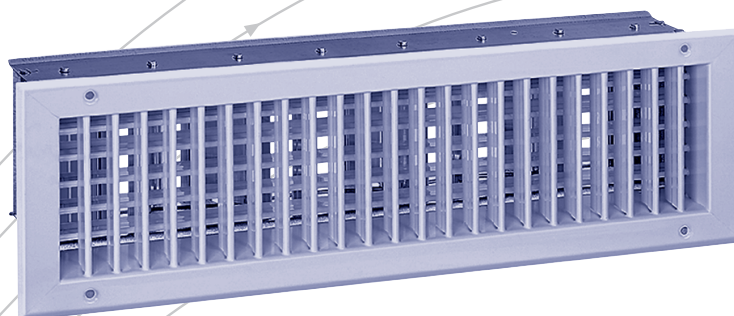


Diffusionsgitter Typ DG...

Dimensionierung

Einblasen senkrecht von oben nach unten



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Inhalt

Anwendung · Vorteile · Grundbedingungen	2
Konzept · Grössen	3
Strahlbilder	4
Schnellauslegungen	5-13
Anordnung der Gitter	14
Montage der Gitter	15
Anordnung im Raum · Geräuschangaben	16

Anwendung

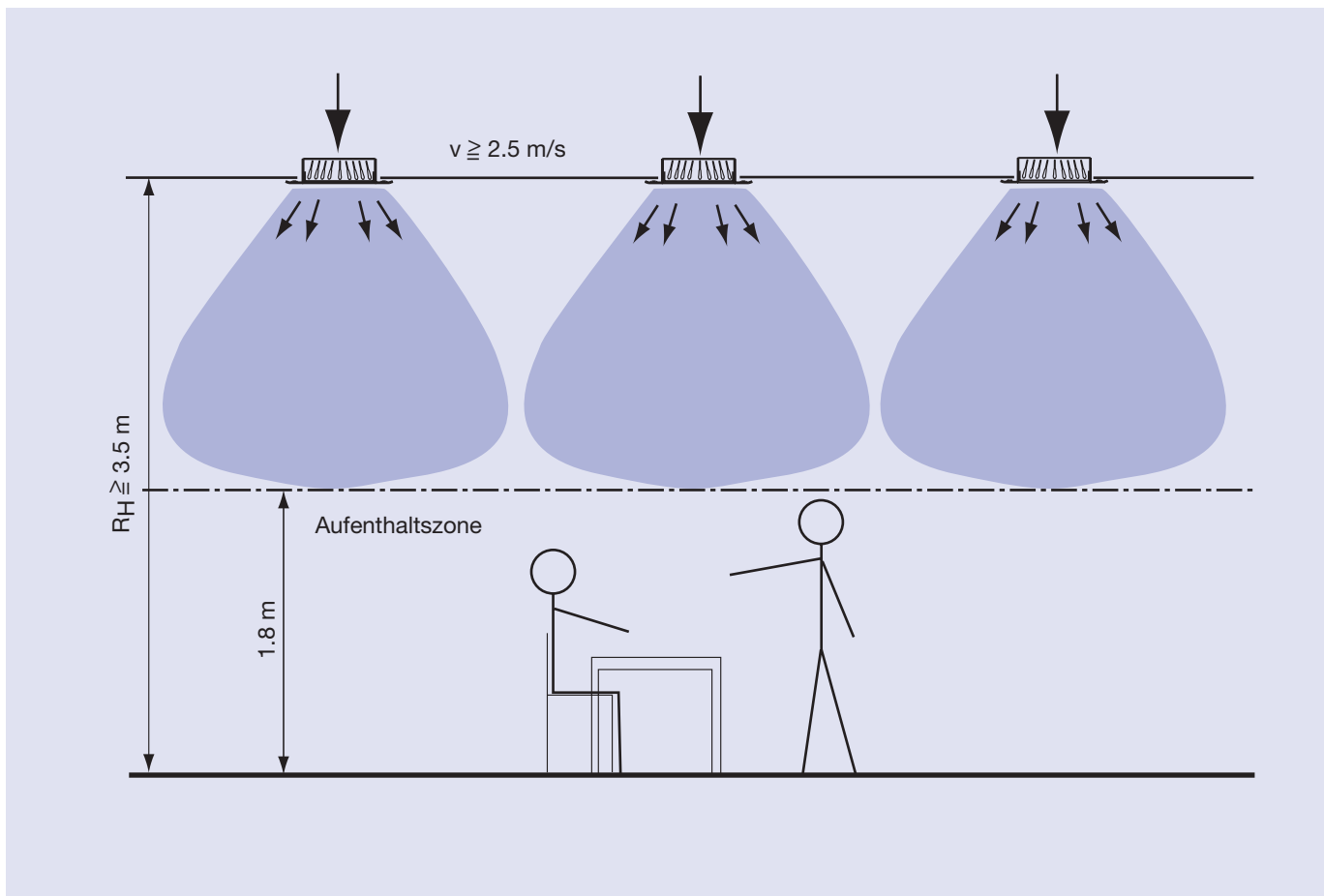
Einführung von Zuluft senkrecht von oben nach unten für Räume über 3.5 m.

Vorteile

- Einfache, wirtschaftliche Lösung für hohe Räume
- Gute Durchspülung und gleichmässige Verteilung der Frischluft
- Keine Wärmepolster an der Decke bei Warmluftheizungen
- Keine Kaltluftereinbrüche bei Kühlung
- Einfache Kanalführung

Grundbedingungen

- Raumhöhe mindestens 3.8 bis max. 10.0 m
- Effektive Ausblasgeschwindigkeit am Gitter mindestens 2.5 m/s
- Divergierende Lamellenstellung am Gitter (vorzugsweise ab 84°)



Konzept

Warum sollen Diffusionsgitter bei Luftführung von oben immer divergierend eingestellt werden?

Gerade Lamellenstellung

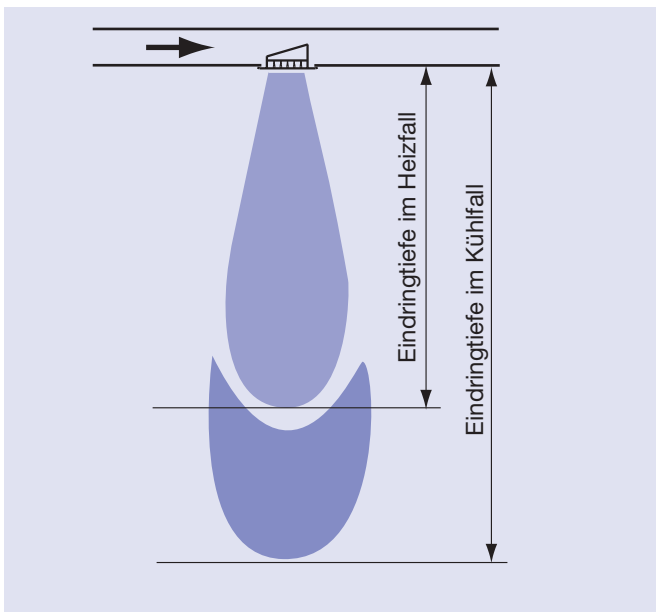
- Grosse Variationen der senkrechten Eindringtiefe in Abhängigkeit von Δt .
- Grosse Wurfweiten

Divergierende Lamellenstellung

- Kleine Variationen der Eindringtiefe
- Grosse Induktion
- Kleine Temperaturdifferenz am Strahlende
- Kurze Wurfweiten

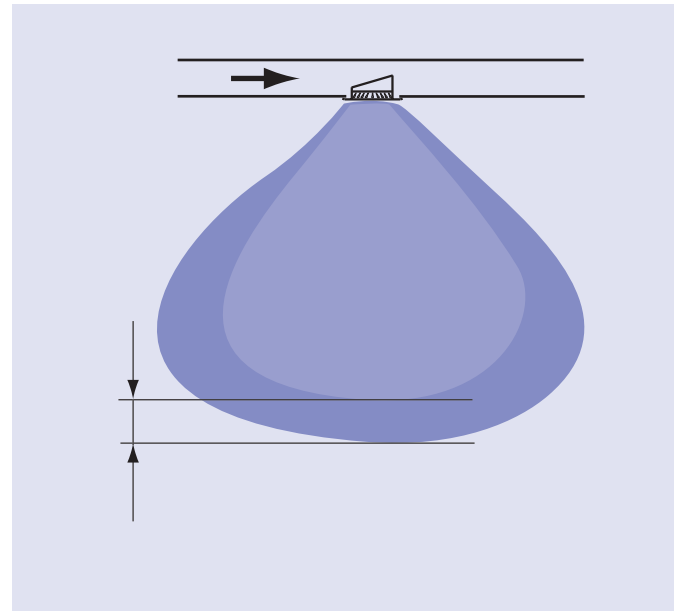
Ausblattsituation bei gerader Lamellenstellung

Grosse Unterschiede der Wurfweiten zwischen Heiz- und Kühlfall



Ausblattsituation bei divergierender Lamellenstellung

Kleine Unterschiede der Wurfweiten zwischen Heiz- und Kühlfall



Überschlägige Grössenbestimmung eines Luftdurchlasses

Welche Gitternennhöhe H ist bei den verschiedenen Raumhöhen R_H anzustreben?

- $H = 50 \text{ mm}$ für Raumhöhe R_H ab ca. 3.5 bis 4.0 m
- $H = 100 \text{ mm}$ für Raumhöhe R_H ab ca. 4.0 bis 5.0 m
- $H = 150 \text{ mm}$ für Raumhöhe R_H ab ca. 5.0 bis 6.0 m
- $H = 200 \text{ mm}$ für Raumhöhe R_H ab ca. 6.0 bis 7.0 m
- $H = 250 \text{ mm}$ für Raumhöhe R_H ab ca. 7.0 bis 10.0 m

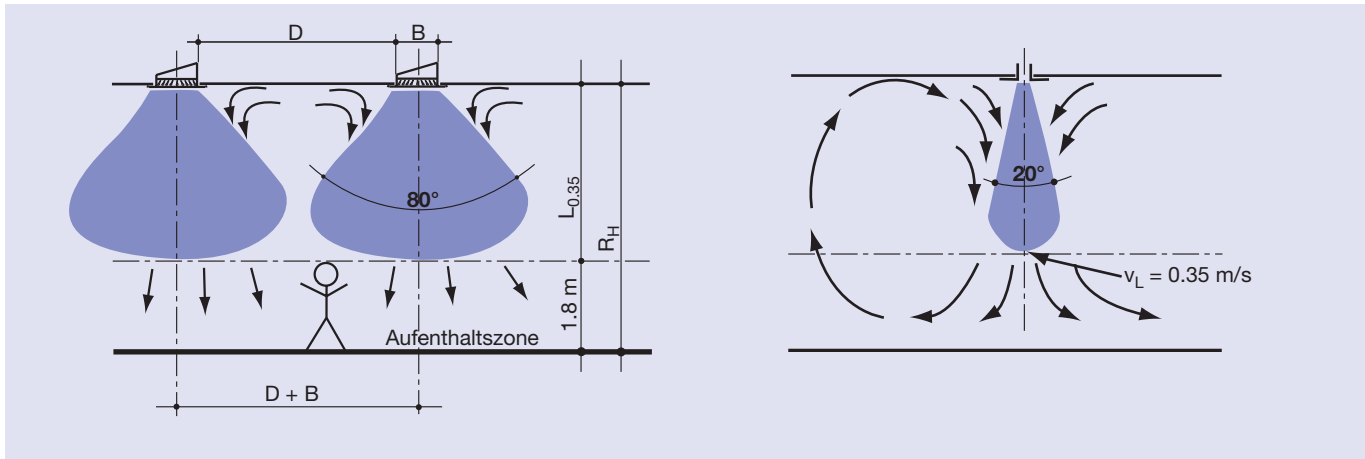
Welche Gitternennbreite B ist bei den verschiedenen Raumhöhen R_H anzustreben?

- $B = 500 \text{ mm}$ für Raumhöhe R_H ab ca. 3.5 bis 4.0 m
- $B = 600 \text{ mm}$ für Raumhöhe R_H ab ca. 4.0 bis 5.5 m
- $B = 750 \text{ mm}$ für Raumhöhe R_H ab ca. 5.5 bis 7.0 m
- $B = 900 \text{ mm}$ für Raumhöhe R_H ab $> 7.0 \text{ m}$

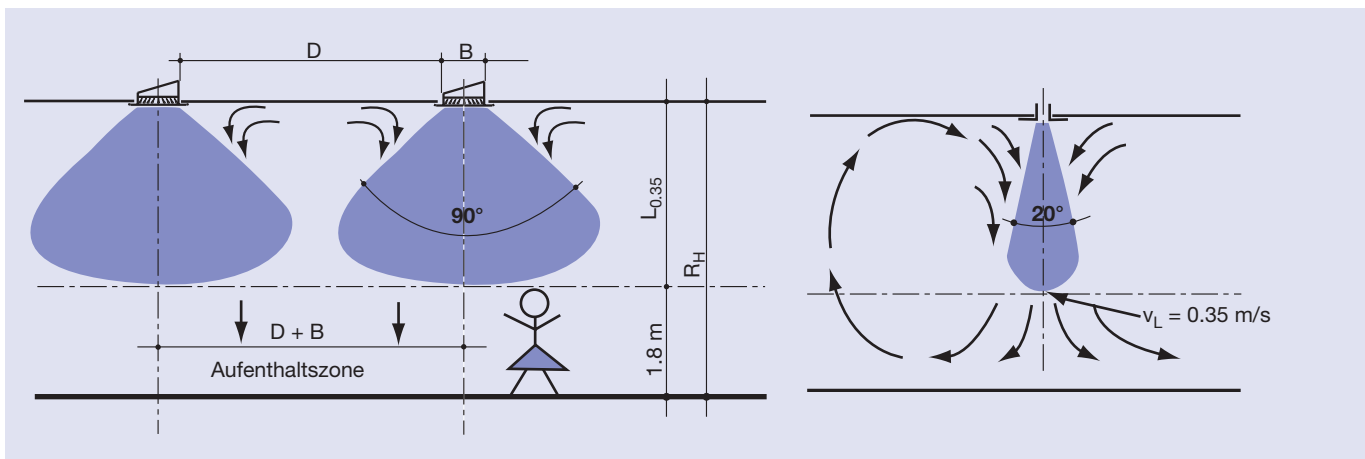
Technische Daten

Strahlbild bei unterschiedlicher Divergenz

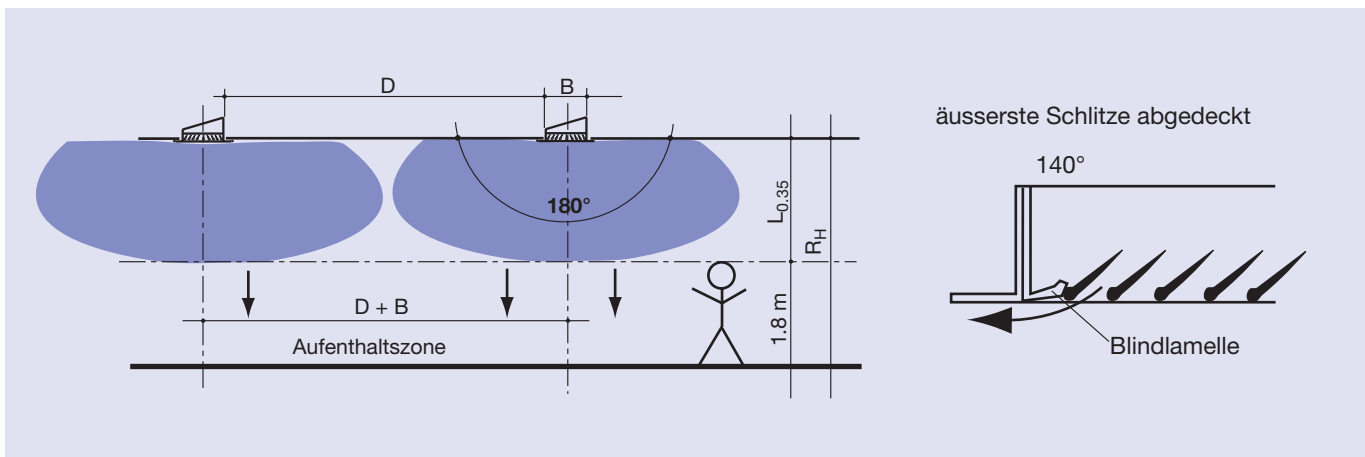
Lamellenstellung 84° divergierend



Lamellenstellung 110° divergierend



Lamellenstellung 140° divergierend



Gitter: 500 x 50		Volumenstrombereich: = 169 bis 270 m ³ /h																											
		Kühlfall								Isotherm				Heizfall								Gitterabstand D							
		Δt = -10 K				Δt = -5 K				Δt = 0 K				Δt = +10 K				Δt = +20 K											
V	[m ³ /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 _{eff}	[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				

Gitter: 600 x 50		Volumenstrombereich: = 203 bis 324 m ³ /h																											
		Kühlfall								Isotherm				Heizfall								Gitterabstand D							
		Δt = -10 K				Δt = -5 K				Δt = 0 K				Δt = +10 K				Δt = +20 K											
V	[m ³ /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 _{eff}	[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				

Technische Daten

Gitter:		750 x 50		Volumenstrombereich: = 253 bis 405 m³/h																									
		Kühlfall								Isotherm				Heizfall								Gitterabstand 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	[m³/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_{eff}	[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																
LO.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																
LO.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																
LO.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																
LO.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																
LO.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																
LO.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				

Gitter:		500 x 100		Volumenstrombereich: = 338 bis 540 m³/h																									
		Kühlfall								Isotherm				Heizfall								Gitterabstand 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	[m³/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_{eff}	[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																
LO.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																
LO.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																
LO.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																
LO.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																
LO.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																
LO.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				

Gitter:		600 x 100		Volumenstrombereich: = 405 bis 648 m³/h																					
		Kühlfall								Isotherm				Heizfall								Gitterabstand 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	[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
v_{eff}	[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]	11.4	13.0	14.6		9.5	10.9	12.3	13.6	7.6	8.8	9.9	11.1												
L0.35	[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
RH	[m]	11.1	12.8	14.5		10.2	11.9	13.5	15.1	9.4	10.9	12.4	13.9												
L0.35	[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
RH	[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												
L0.35	[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
RH	[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												
L0.35	[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
RH	[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												
L0.35	[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
RH	[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												
L0.35	[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

Gitter:		750 x 100		Volumenstrombereich: = 506 bis 810 m³/h																					
		Kühlfall								Isotherm				Heizfall								Gitterabstand 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	[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
v_{eff}	[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]	11.9	13.6			9.8	11.3	12.7	14.1	7.8	9.0	10.2	11.4												
L0.35	[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
RH	[m]	11.5	13.3	15.0		10.5	12.2	13.9	15.5	9.6	11.1	12.7	14.2												
L0.35	[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
RH	[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												
L0.35	[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
RH	[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												
L0.35	[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
RH	[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												
L0.35	[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
RH	[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												
L0.35	[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

Technische Daten

Gitter:		900 x 100		Volumenstrombereich: = 608 bis 972 m ³ /h																									
		Kühlfall								Isotherm				Heizfall								Gitterabstand 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 ³ /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 _{eff}	[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				

Gitter:		500 x 150		Volumenstrombereich: = 506 bis 810 m ³ /h																									
		Kühlfall								Isotherm				Heizfall								Gitterabstand 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 ³ /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 _{eff}	[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	9.0	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				

Gitter:		600 x 150		Volumenstrombereich: = 608 bis 972 m ³ /h																									
		Kühlfall								Isotherm				Heizfall								Gitterabstand 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 ³ /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 _{eff}	[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				

Gitter:		750 x 150		Volumenstrombereich: = 759 bis 1215 m³/h																												
		Kühlfall								Isotherm				Heizfall								Gitterabstand 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	[m³/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							
v_{eff}	[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]		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	-	-	-	-	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

Gitter:		900 x 150		Volumenstrombereich: = 911 bis 1458 m³/h																												
		Kühlfall								Isotherm				Heizfall								Gitterabstand 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	[m³/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							
v_{eff}	[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]		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

Gitter:		500 x 200		Volumenstrombereich: = 675 bis 1080 m³/h																												
		Kühlfall								Isotherm				Heizfall								Gitterabstand 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	[m³/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							
v_{eff}	[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]		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

Technische Daten

Gitter: 600 x 200		Volumenstrombereich: = 810 bis 1296 m ³ /h																											
		Kühlfall								Isotherm				Heizfall								Gitterabstand 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 ³ /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
v _{eff}	[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]		14.4				12.0	13.8			9.6	11.2	12.8	14.3															
L0.35	[m]	44°	12.6	-	-	-	10.2	12.0	-	-	7.8	9.4	11.0	12.5	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			

Gitter: 750 x 200		Volumenstrombereich: = 1013 bis 1620 m ³ /h																											
		Kühlfall								Isotherm				Heizfall								Gitterabstand 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 ³ /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
v _{eff}	[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]					12.7	14.7			10.0	11.7	13.3	15.0																
L0.35	[m]	44°	-	-	-	-	10.9	12.9	-	-	8.2	9.9	11.5	13.2	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			

Technische Daten

Gitter:		900 x 200		Volumenstrombereich: = 1215 bis 1944 m³/h																						
		Kühlfall								Isotherm				Heizfall								Gitterabstand 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	[m³/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_{eff}	[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

Gitter:		600 x 250		Volumenstrombereich: = 1013 bis 1620 m³/h																						
		Kühlfall								Isotherm				Heizfall								Gitterabstand 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	[m³/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_{eff}	[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

Gitter: 750 x 250		Volumenstrombereich: = 1266 bis 2025 m³/h																									
		Kühlfall								Isotherm				Heizfall								Gitterabstand 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	[m³/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 _{eff}	[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			8.9	10.3	11.8	13.2												
L0.35	[m]	84°	10.1	11.9	-	-	8.6	10.2	11.8	-	-	7.1	8.5	10.0	11.4	4.1	5.2	6.3	7.4	1.1	1.8	2.6	3.4	10.0	11.7	13.4	15.0
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	12.5	14.2	
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	21.9	24.6	

Gitter: 900 x 250		Volumenstrombereich: = 1519 bis 2430 m³/h																									
		Kühlfall								Isotherm				Heizfall								Gitterabstand 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	[m³/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 _{eff}	[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			9.2	10.7	12.2	13.7												
L0.35	[m]	84°	10.8	12.7	-	-	9.1	10.8	12.5	-	-	7.4	8.9	10.4	11.9	4.1	5.2	6.3	7.4	-	1.4	2.2	3.0	10.8	12.6	14.3	16.0
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	13.3	14.9	
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	22.9	26.0	

Gitter:		600 x 300		Volumenstrombereich: = 1215 bis 1944 m³/h																					
		Kühlfall								Isotherm				Heizfall								Gitterabstand 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	[m³/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_{eff}	[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	-	-				11.0	12.7	14.4													
										9.2	10.9	12.6	-												
										7.6	9.1	10.6	12.2												
										9.4	10.9	12.4	14.0												
			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												
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												
										7.5	8.6	9.8	10.9												
			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												
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																			

Gitter:		900 x 300		Volumenstrombereich: = 1823 bis 2916 m³/h																					
		Kühlfall								Isotherm				Heizfall								Gitterabstand 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	[m³/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
v_{eff}	[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]		14.7																						
L0.35	[m]	84°	12.9	-	-	-				12.5	14.5														
										10.3	12.1	13.8													
										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												
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												
										8.2	9.5	10.8	12.1												
			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												
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																			

Wahl der Kanäle und Gittertypen

Rechteckkanal mit: DG / DGL 1 - 17

Rundkanal mit: DGR1 - DGR17 / DGRA1 - DGRA17 abhängig vom Rohrdurchmesser

Anordnung der Gitter im Kanal

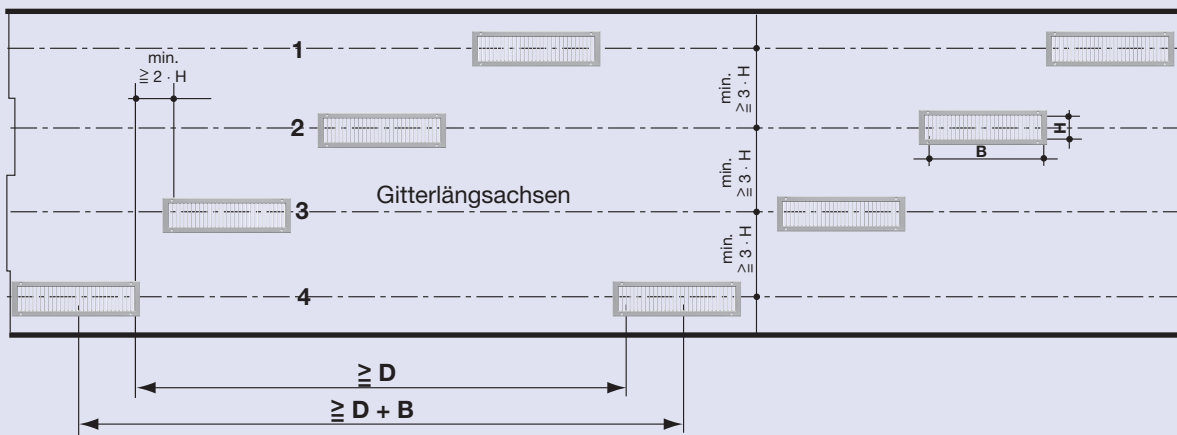
Wegen der grossen Strahlbreite durch die divergierende Lamellenstellung ist eine versetzte Gitteranordnung notwendig.

Anordnung im Rechteckkanal (mit DG oder DGL)

mögliche Lamellenstellungen:

H = 50 bis 250 mm; 84°, 110°, 140° divergierend

Kanalansicht von unten



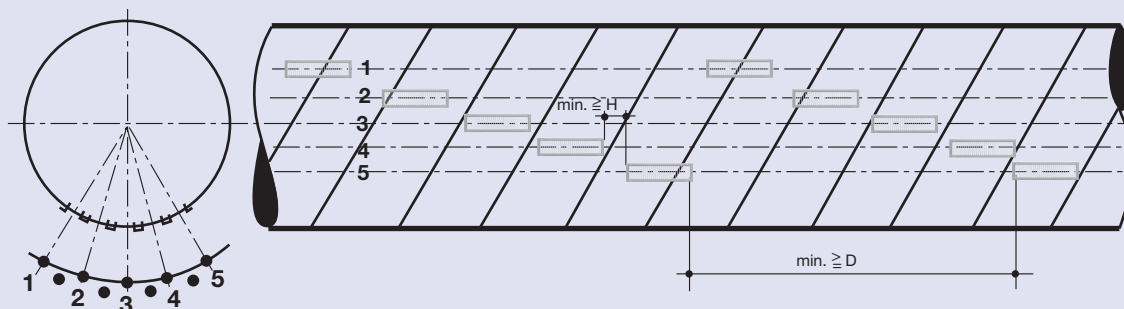
Anordnung im Rundkanal (mit DGR / DGRA)

mögliche Lamellenstellungen:

H = 50 mm, 84°, 110°, 140° divergierend möglich

H \geq 100 mm, 84°, 110° divergierend möglich

Kanalansicht von unten



- Winkel je nach Rohr-Ø und Gitternennmass:
ca. 15° bis 30°

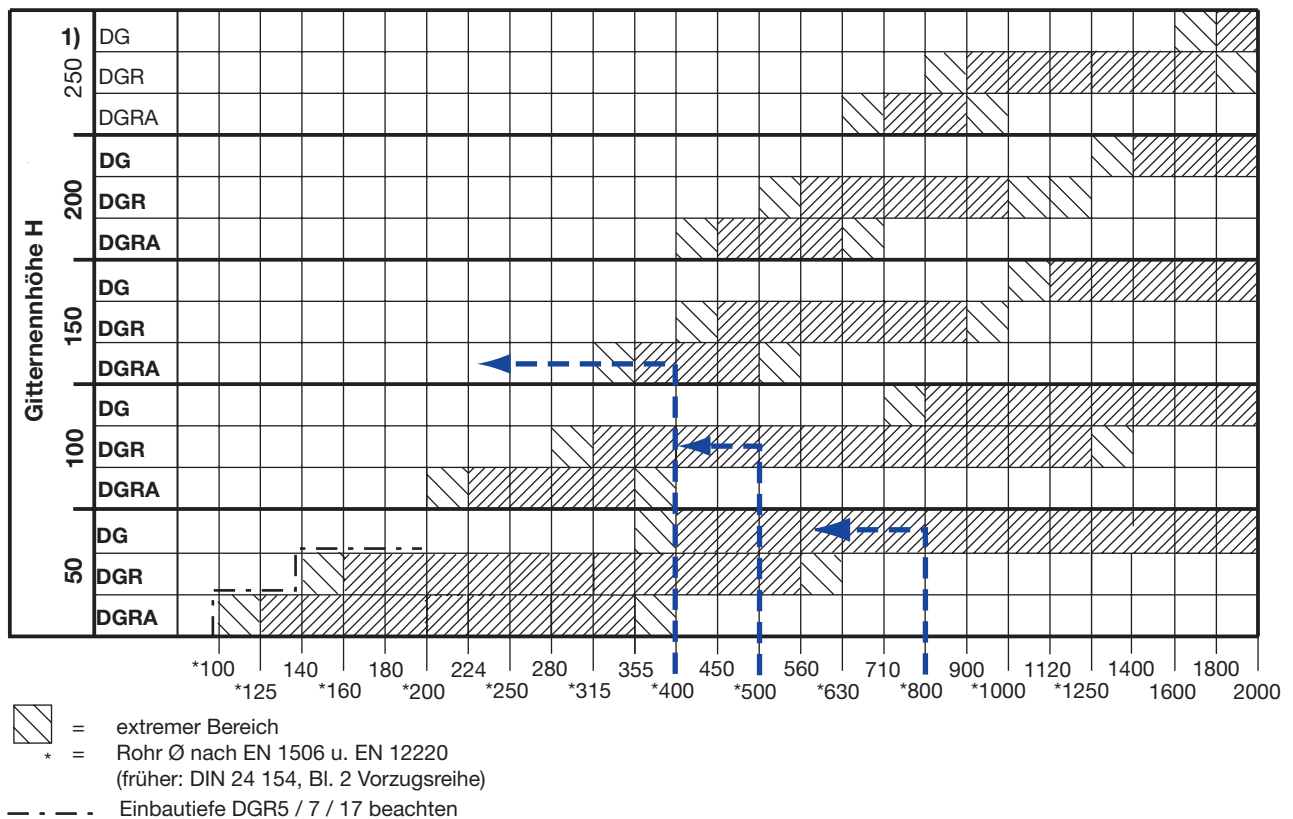
Montage der Gitter

- DG : mit Schrauben
- DGL : schraubenlos
- DGR : mit Schrauben oder schraubenlos

Weitere Details siehe Prospekte: L-02-1-01d, L-02-1-09d, L-02-2-01d

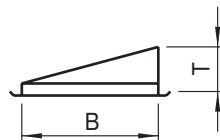
Anwendungsbereiche der DGR

Nachstehende Tabelle zeigt, für welche Rohrdurchmesserbereiche die entsprechende Gitternennhöhe H verwendet werden kann.



1) Gitternennhöhe H = 250 ist **keine** Lagergröße

Einbautiefe T beim DGR5 / 7 / 17



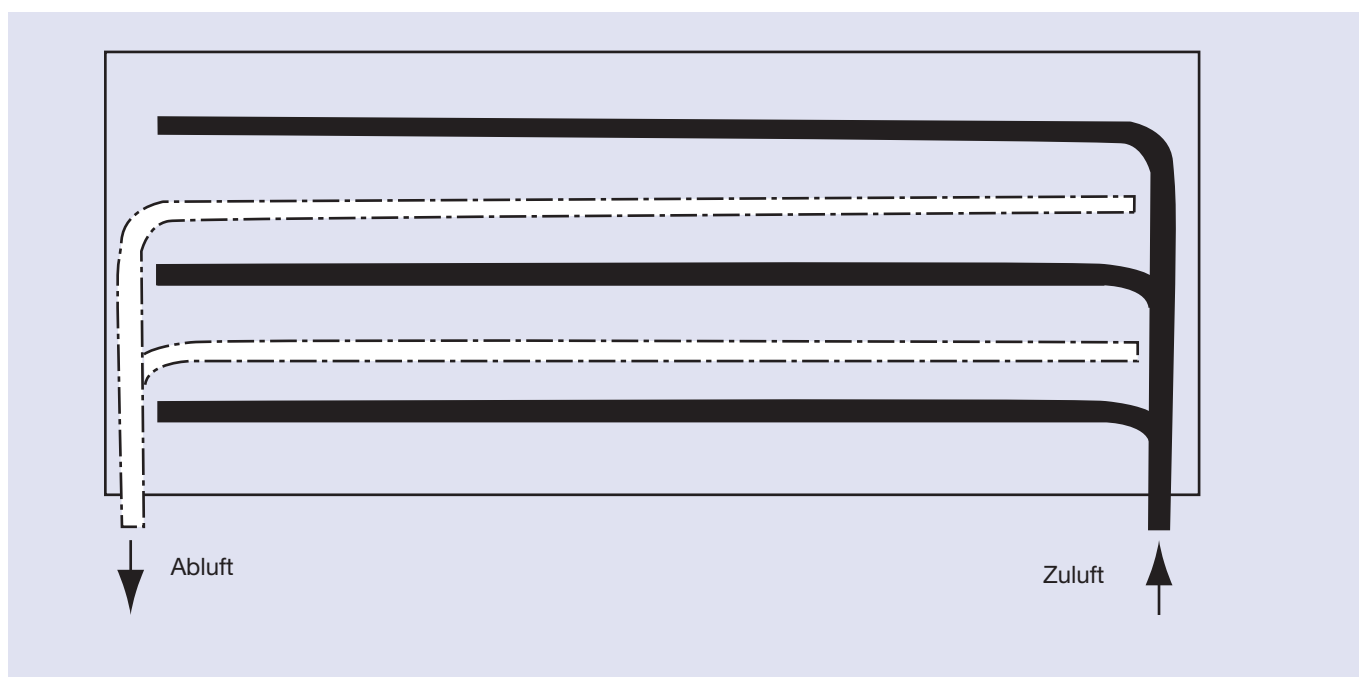
B = Nennbreite		200	300	400	500	600	750	900 ²⁾	mm
T	DGR5	90	100	110	115	125	145	170	mm
	DGR7 / 17	max.155 (100% offen)							

2) Gitternennbreite B = 900 ist **keine** Lagergröße

Technische Daten

Anordnung der Kanäle im Raum

Die Kanäle sind im Grundriss gleichmässig auf den Raum verteilt möglichst an der Decke anzuordnen.



Geräuschangaben der TROX HESCO Diffusionsgitter

Zuluft: DG1 siehe Diagramm L-02-5-01d, Seite 19 + folgende
DG6 siehe Diagramm L-02-5-01d, Seite 19 + folgende

Abluft: DG8 siehe Diagramm L-02-5-01d, Seite 19 + folgende

Auswahldiagramme für horizontal ausblasende TROX HESCO Diffusionsgitter

siehe „Diffusionsgitter Typ DG..., Dimensionierung“, L-02-5-01d