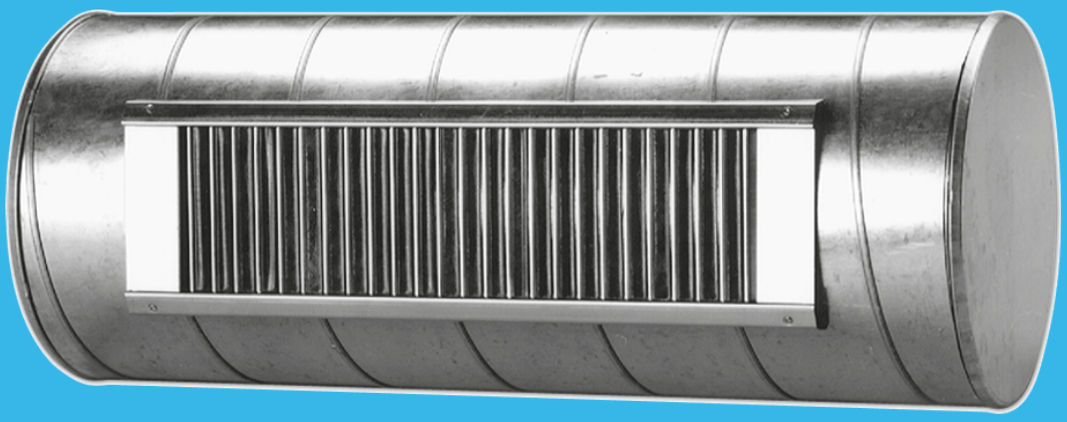
MALCON
MARINE AND LAND CONSTRUCTION



RGS

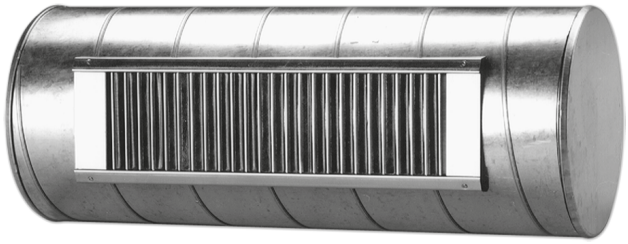
Circular duct grille

Lindab®

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Circular duct grille

RGS



Description

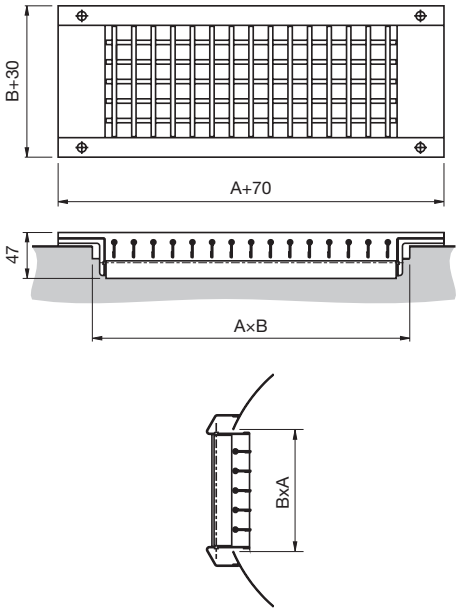
RGS is a rectangular ventilation grille with vertical adjustable bars for direct installation in circular ducts. The grille can be used for both supply and exhaust air. The grille can be supplied with horizontal directional bars, straight or slanting sliding damper or blade damper. The grille is designed so that the grille flanges always fit tight to the duct regardless of the duct diameter. RGS is made of hot-galvanised steel plate and is put together without welding. This means that the grille can be used without further surface treatment. The exterior of the grille thus matches the duct surface.

- Can be used for both supply and exhaust air
- Installed directly in circular duct
- Can be fitted with many types of accessory

Maintenance

The grille should be removed to gain access to the duct.

Dimensions



A x B = Cutting dimension

Screws included.

Order code

Product	RGS	a	bbb	ccc
Type				
Accessories				
A - measure				
B - measure				

A x B = Cutting dimension

Materials and finish

Grille:	Hot-galvanised steel
Sliding damper:	Electro-galvanised steel
Blade damper:	Electro-galvanised steel

The diffuser is available in other colours. Please contact Lindab's sales department for further information.

We reserve the right to make changes
2020-02-13

Circular duct grille

RGS

Dimensions

Measure A	x	B	Min duct measure mm	Free area F(m^2)	C - Measure mm	RGS 1 Weight kg
325	X	75	160	0.017	106	1.10
325	X	125	250	0.028	106	1.30
325	X	150	315	0.034	106	1.40
325	X	225	500	0.056	106	2.20
425	X	75	160	0.023	116	1.40
425	X	125	250	0.037	116	1.80
425	X	150	315	0.045	116	1.90
425	X	225	500	0.074	116	3,00
525	X	75	160	0.028	126	1.70
525	X	125	250	0.047	126	2,00
525	X	150	315	0.056	126	2.30
525	X	225	500	0.093	126	3.40
625	X	75	160	0.034	131	1.90
625	X	125	250	0.056	131	2.40
625	X	150	315	0.068	131	2.60
625	X	225	500	0.112	131	3.70
825	X	75	160	0.045	151	2.40
825	X	125	250	0.074	151	3.10
825	X	150	315	0.093	151	3.50
825	X	225	500	0.148	151	5.10
1025	X	75	200	0.056	186	2.90
1225	X	75	200	0.068	186	3.20
1225	X	125	250	0.112	186	4,00
1225	X	150	315	0.136	186	4.40
1225	X	225	500	0.224	186	6.30

Use

RGS-2
Suitable for supply and exhaust air. The grille is equipped with a single adjustment damper and has a lower sound level than RGS-6.

RGS-3
As RGS-2 with horizontal directional bars specifically for supply air.

RGS-4
The grille is suitable for exhaust only.

RGS-6 Slanting sliding damper
Suitable for supply and exhaust air. The grille is equipped with a slanting sliding damper, which means the air is distributed evenly over the whole grille.

RGS-7
As RGS-6 with horizontal directional bars specifically for supply air.

Accessories

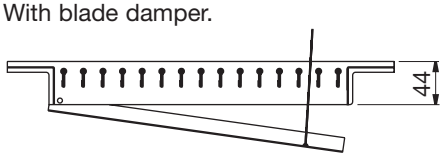
RGS-0, without accessories.



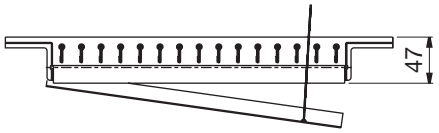
RGS-1, With directional bars.



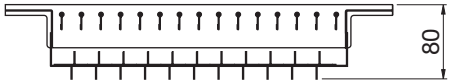
RGS-2, With blade damper.



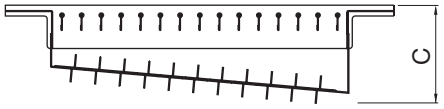
RGS-3, With directional bars and blade damper.



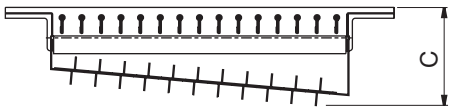
RGS-4, With straight sliding damper.



RGS-6, With slanting sliding damper.



RGS-7, With directional bars and slanting sliding damper.



Circular duct grille RGS

Technical data

Effective speed v_0

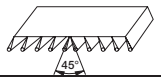
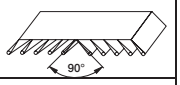
The diagram for throw (see next page) specifies effective speed v_0 [m/s] as a function of the volume flow q [m³/h, l/s] for each grille size with 0° bar setting.

The diffuser is available in other colours. Please contact Lindab's sales department for further information.

Throw $l_{0.2}$

The diagram for throw (see next page) specifies the throw $l_{0.2}$ [m] at an average terminal velocity of 0.2 m/s, 0° bar setting without ceiling effect. (Distance from grille to ceiling. greater than 800 mm.)

Table 1: Correction for dispersal.

Bar setting		
Correction factor V_0	1,1	1,2
Correction factor $l_{0,2}$	0,8	0,5

Ceiling effect

If the distance from grille to ceiling is less than 300 mm, the throw $l_{0.2}$ must be multiplied by 1.4.

Total pressure p_t

The diagram "Pressure – sound level" states the grille's total pressure p_t [Pa].

Sound effect level L_{WA}

The diagram "Pressure – sound level" states the grille's sound effect level L_{WA} [dB(A)] at a free area of 0.05 m².

Table 2: Correction for free area.

Correction free area											
F [m²]	0,02	0,025	0,03	0,04	0,05	0,06	0,08	0,1	0,13	0,17	0,2
correction [dB]	-4	-3	-2	-1	0	+1	+2	+3	+4	+5	+6

Duct speed v_k

Pressure and sound effect level are stated for different duct speeds v_k [m/s].

For duct speeds v_k < 1 m/s, the sound values L_{WA} must be corrected by -7 dB.

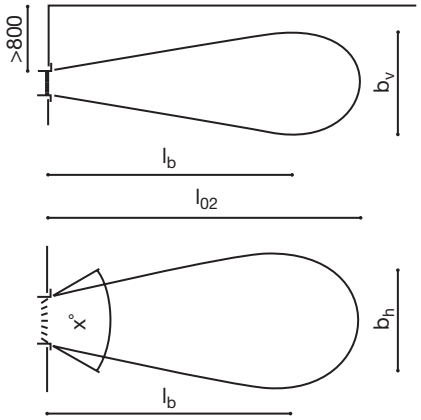
The diagrams on the following pages are in table form. See dimensioning tables.

The values apply to grilles with 0° dispersal.

Table 3: Correction for dispersal.

Bar setting	45°	90°
Pressure	x1,15	x1,3
Sound power level	+1	+2

Air jet dispersal



$b_v = 0{,}1 \times l_{0,2}$
$l_b = 0{,}5 \times l_{0,2}$

X = 0° : $b_h = 0.3 \times l_{0.2}$ $l_b = 0.5 \times l_{0.2}$
X = 45° : $b_h = 0.4 \times l_{0.2}$ $l_b = 0.5 \times l_{0.2}$
X = 90° : $b_h = 0.6 \times l_{0.2}$ $l_b = 0.5 \times l_{0.2}$

$l_{0.2}$: Catalogue values

Sample calculation 1

Room width:	W = 6 m,
Room height:	H = 2.6 m
Volume flow per grille:	300 m³/h
Duct speed:	v_k = 4 m/s
Speed in the occupied zone:	< 0.25 m/s

From next page:

$$v_x = \frac{l_{0,2}}{B + C} \times 0{,}2 \qquad C = H - 1{,}8 = 0{,}8 \text{ m}$$

v_x = ≤ 0,25 m/s B + C = 6,8 m

$$l_{0,2} \le (B + C) \times \frac{v_x}{0{,}2} \le 6{,}8 \times \frac{0{,}25}{0{,}20} \le 8{,}5 \text{ m}$$

The diagram "Effective speed v_o- Throw $l_{0.2}$" (next pages):

Grille 625 x 75: $l_{0.2}$ = 8.0 m
v_o = 2.5 m/s

Pressure loss and sound effect level:
The diagram "Pressure-Sound level":
100% open damper

v_0 = 2.5 m/s v_k = 4.0 m/s
p_t = 23 Pa
L_{WA} = 44 dB(A)

Free area:	0.034 m²
Correction table 2:	- 2

L_{WA} = 44 - 2 = 42 dB(A)

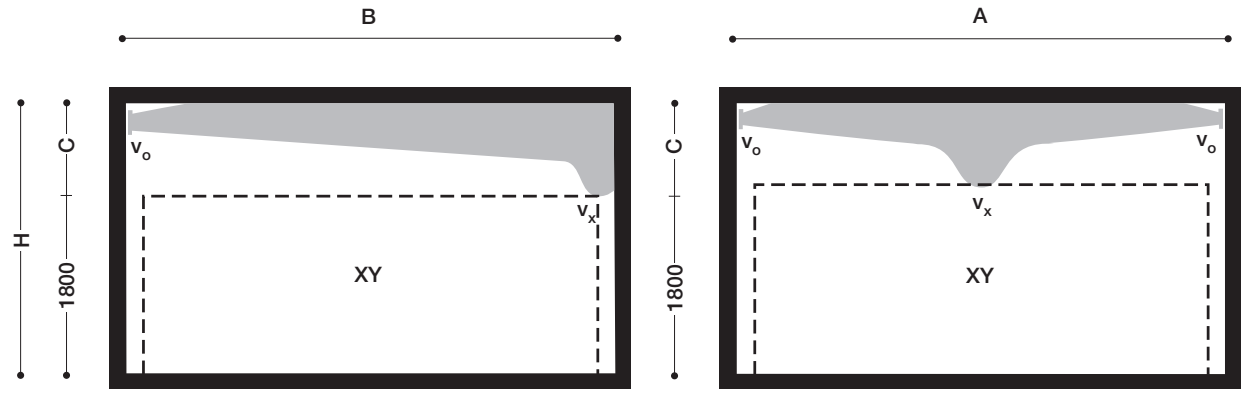
The diagram "Pressure – Sound level": 50% open damper:

p_t = 42 Pa
L_{WA} = 50 - 2 = 48 dB(A)

We reserve the right to make changes
2020-02-13

Circular duct grille RGS

Technical data - Supply air



XY = occupied zone

Final velocities

The speed in occupied zone v_x:

$$v_x = \frac{l_{0,2}}{B + C} \times 0{,}2 \text{ m/s} \qquad v_x = \frac{l_{0,2}}{\frac{A}{2} + C} \times 0{,}2 \text{ m/s}$$

Terminal velocity v_x at distance X:

$$v_x = \frac{l_{0,2} \times 0{,}2}{X}$$

Other terminal velocities v_x:

The distance to the point where the speed has decreased to

v_x is: $X = K \times l_{0.2}$

Table 4:

v_x	0,15	0,2	0,25	0,3	0,35	0,4
K	1,33	1,0	0,8	0,67	0,57	0,5

Final velocities

Room: Width: W = 7 m, Height: 2.7 m

C = 2.7 – 1.8 = 0.9 m

Grille: 825 x 75 Volume flow: 400 m³/h

Throw according to the diagram on the next page:

$l_{0.2}$ = 9.0 m

The speed in the occupied zone:

$$v_x = \frac{l_{0,2}}{B + C} \times 0{,}2 = \frac{9{,}0}{7{,}9} \times 0{,}2 = 0{,}23 \text{ m/s}$$

The speed 4 m from the grille is:

$$v_X = \frac{l_{0,2} \times 0{,}2}{B + C} = \frac{9 \times 0{,}2}{4} = 0{,}45 \text{ m/s}$$

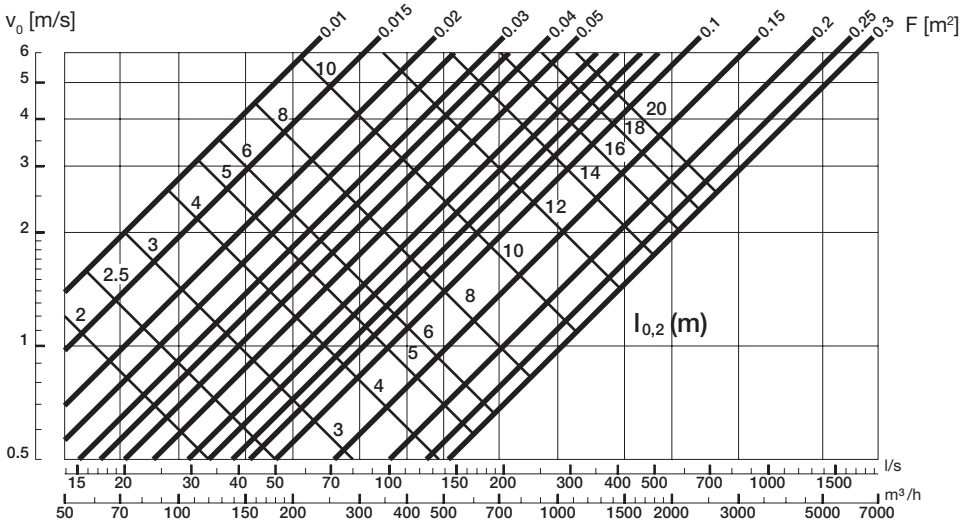
The distance to the point where the speed has decreased to 0,3 m/s is:

$0{,}67 \times l_{0,2} = 0{,}67 \times 9 = \underline{6{,}0 \text{ m}}$

Circular duct grille RGS

Technical data - Supply and exhaust air

Effective speed v_0 - Throw $l_{0.2}$



Sample calculation 3

Grille 1025 x 75

Volume flow:	500 m^3/h
Supply air speed:	v_0 = 2.7 m/s
Throw:	$l_{0.2}$ = 10.0 m

With 90° dispersal: (See table 1, previous page)

v_0 = 1.2 x 2.7 = 3.2 m/s

$l_{0.2}$ = 0.5 x 10.0 = 5.0 m

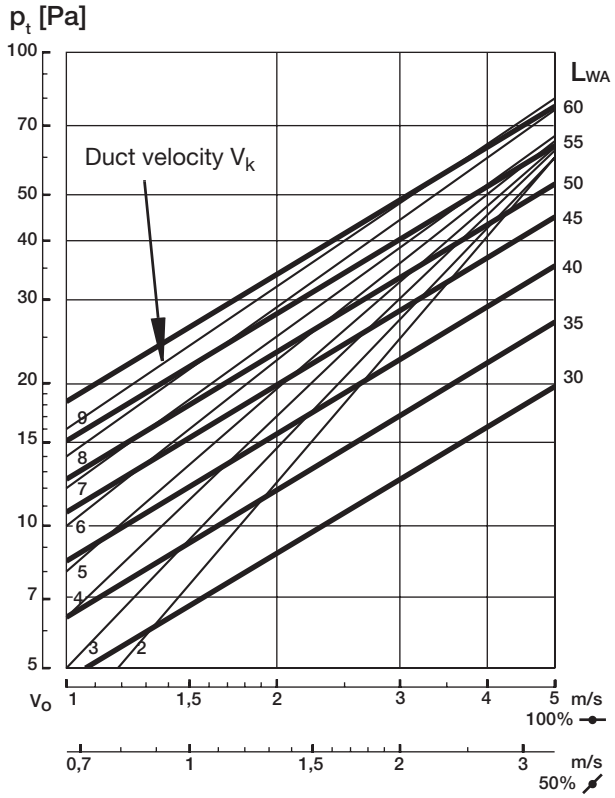
We reserve the right to make changes
2020-02-13

Circular duct grille RGS

Technical data- - Supply and exhaust air

Pressure - Sound level

RGS with accessories 4, 6 and 7



Correction

Correction for RGS with accessories 2 and 3.

Table 5:

Total pressure p_t	x 0,75	Pa
Sound power level L_{WA}	-3	dB(A)

Table 6: Correction for free area.

Correction free area											
F [m²]	0,02	0,025	0,03	0,04	0,05	0,06	0,08	0,1	0,13	0,17	0,2
correction [dB]	-4	-3	-2	-1	0	+1	+2	+3	+4	+5	+6

Sample calculation 4

RGS-6 625 x 75 V — Area: 0.034 m²

Volume flow: 250 m³/h

Supply air speed: v_0 = 2.0 m/s

Duct speed: v_k = 4 m/s

100% open damper:

p_t = 17 Pa
L_{WA} = 42 dB

Table 6:

0.03 m²: -2 dB
L_{WA} = 42 - 2 = 40 dB

50% open damper:

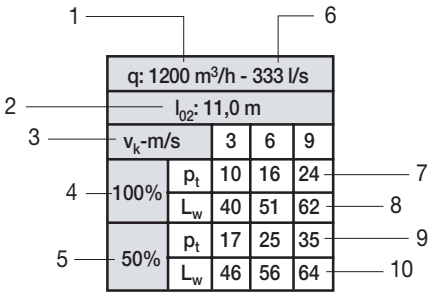
p_t = 30 Pa
L_{WA} = 47 - 2 = 45 dB

Dimensioning tables for RGS

The following pages contain dimensioning tables for RGS with accessories 4, 6 and 7.
Correction for RGS with accessories 2 and 3 - see table 5.

Explanation for dimensioning tables

1. Volume of air (m³/h)
2. Throw
3. Duct speed
4. 100% open damper
5. 50% open damper
6. Volume of air (l/s)
7. Pressure loss
8. Sound level
9. Pressure loss
10. Sound level



Circular duct grille RGS

Technical data-Supply and exhaust air

Dimensioning table with accessories 4, 6 and 7

B dimension: 75 mm

325×75 0,017 m²	**q: 75 m³/h - 21 l/s $l_{0,2}$: 2,0 m**					**q: 100 m³/h - 28 l/s $l_{0,2}$: 3,0 m**					**q: 150 m³/h - 42 l/s $l_{0,2}$: 4,5 m**					**q: 200 m³/h - 56 l/s $l_{0,2}$: 7,0 m**					**q: 250 m³/h - 69 l/s $l_{0,2}$: 9,0 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	7	12	20	100%	p_t	11	17	26	100%	p_t	20	28	38	100%	p_t	30	38	52	100%	p_t	43	51	62
		L_W	29	41	49		L_W	32	43	54		L_W	37	46	55		L_W	41	49	56		L_W	45	50	56
	50%	p_t	12	21	30	50%	p_t	21	28	40	50%	p_t	38	45	60	50%	p_t	60	65	81	50%	p_t	83	92	104
		L_W	34	44	54		L_W	38	46	55		L_W	44	50	56		L_W	49	51	58		L_W	54	57	60
425×75 0,023 m²	**q: 100 m³/h - 28 l/s $l_{0,2}$: 2,5 m**					**q: 150 m³/h - 42 l/s $l_{0,2}$: 4,5 m**					**q: 200 m³/h - 56 l/s $l_{0,2}$: 5,5 m**					**q: 250 m³/h - 69 l/s $l_{0,2}$: 7,0 m**					**q: 300 m³/h - 83 l/s $l_{0,2}$: 9,0 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	7	12	20	100%	p_t	12	20	29	100%	p_t	20	28	38	100%	p_t	27	35	48	100%	p_t	36	44	56
		L_W	29	42	50		L_W	34	44	53		L_W	38	47	56		L_W	41	49	56		L_W	44	51	56
	50%	p_t	12	21	30	50%	p_t	26	31	43	50%	p_t	38	45	60	50%	p_t	51	56	74	50%	p_t	70	79	90
		L_W	35	45	55		L_W	40	49	56		L_W	45	51	57		L_W	49	51	58		L_W	53	57	60
525×75 0,028 m²	**q: 150 m³/h - 42 l/s $l_{0,2}$: 3,9 m**					**q: 200 m³/h - 56 l/s $l_{0,2}$: 5,5 m**					**q: 250 m³/h - 69 l/s $l_{0,2}$: 7,5 m**					**q: 300 m³/h - 83 l/s $l_{0,2}$: 9,0 m**					**q: 350 m³/h - 97 l/s $l_{0,2}$: 10,0 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	11	16	25	100%	p_t	14	22	32	100%	p_t	21	28	38	100%	p_t	25	35	48	100%	p_t	35	43	55
		L_W	33	44	55		L_W	36	46	56		L_W	39	48	57		L_W	41	50	57		L_W	45	52	58
	50%	p_t	20	28	38	50%	p_t	28	37	47	50%	p_t	38	47	60	50%	p_t	47	55	68	50%	p_t	69	78	89
		L_W	39	47	56		L_W	42	50	57		L_W	46	52	58		L_W	49	53	59		L_W	54	58	61
625×75 0,034 m²	**q: 200 m³/h - 56 l/s $l_{0,2}$: 5,0 m**					**q: 250 m³/h - 69 l/s $l_{0,2}$: 6,5 m**					**q: 300 m³/h - 83 l/s $l_{0,2}$: 8,5 m**					**q: 350 m³/h - 97 l/s $l_{0,2}$: 9,5 m**					**q: 400 m³/h - 111 l/s $l_{0,2}$: 10,5 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	11	16	25	100%	p_t	14	22	32	100%	p_t	21	28	38	100%	p_t	25	35	48	100%	p_t	30	38	52
		L_W	34	45	54		L_W	37	47	57		L_W	40	49	58		L_W	42	51	58		L_W	44	52	59
	50%	p_t	20	30	40	50%	p_t	28	37	47	50%	p_t	38	47	60	50%	p_t	48	57	67	50%	p_t	60	65	81
		L_W	40	48	57		L_W	43	51	58		L_W	47	53	59		L_W	50	54	60		L_W	52	54	61
825×75 0,045 m²	**q: 250 m³/h - 69 l/s $l_{0,2}$: 5,2 m**					**q: 300 m³/h - 83 l/s $l_{0,2}$: 7,0 m**					**q: 400 m³/h - 111 l/s $l_{0,2}$: 9,0 m**					**q: 500 m³/h - 139 l/s $l_{0,2}$: 10,5 m**					**q: 600 m³/h - 167 l/s $l_{0,2}$: 12,0 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	10	16	24	100%	p_t	12	20	29	100%	p_t	21	28	38	100%	p_t	27	35	48	100%	p_t	37	46	57
		L_W	35	46	57		L_W	37	47	56		L_W	41	50	59		L_W	44	52	59		L_W	48	55	60
	50%	p_t	17	25	35	50%	p_t	26	31	43	50%	p_t	38	47	60	50%	p_t	51	56	74	50%	p_t	72	82	93
		L_W	40	50	58		L_W	43	52	59		L_W	48	54	60		L_W	52	54	61		L_W	57	60	63
1025×75 0,056 m²	**q: 300 m³/h - 83 l/s $l_{0,2}$: 6,0 m**					**q: 400 m³/h - 111 l/s $l_{0,2}$: 8,5 m**					**q: 500 m³/h - 139 l/s $l_{0,2}$: 10,0 m**					**q: 600 m³/h - 167 l/s $l_{0,2}$: 11,5 m**					**q: 700 m³/h - 194 l/s $l_{0,2}$: 13,0 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	10	16	24	100%	p_t	14	22	32	100%	p_t	21	28	38	100%	p_t	27	35	48	100%	p_t	35	43	55
		L_W	36	47	58		L_W	39	49	59		L_W	42	51	60		L_W	45	53	60		L_W	48	55	61
	50%	p_t	17	25	35	50%	p_t	28	37	47	50%	p_t	38	47	60	50%	p_t	51	56	74	50%	p_t	69	78	89
		L_W	41	51	59		L_W	45	53	60		L_W	49	55	61		L_W	53	55	61		L_W	57	61	64
1225×75 0,068 m²	**q: 400 m³/h - 111 l/s $l_{0,2}$: 7,0 m**					**q: 500 m³/h - 139 l/s $l_{0,2}$: 9,0 m**					**q: 600 m³/h - 167 l/s $l_{0,2}$: 10,5 m**					**q: 700 m³/h - 194 l/s $l_{0,2}$: 11,5 m**					**q: 800 m³/h - 222 l/s $l_{0,2}$: 13,0 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	11	17	26	100%	p_t	14	22	32	100%	p_t	21	28	38	100%	p_t	25	35	48	100%	p_t	30	38	52
		L_W	37	48	59		L_W	40	50	60		L_W	43	52	61		L_W	45	54	61		L_W	47	55	62
	50%	p_t	20	28	38	50%	p_t	28	37	47	50%	p_t	38	47	60	50%	p_t	48	57	68	50%	p_t	60	65	81
		L_W	43	51	60		L_W	46	52	61		L_W	50	54	62		L_W	53	57	63		L_W	55	57	64

We reserve the right to make changes
2020-02-13

Circular duct grille RGS

Technical data-Supply and exhaust air

Dimensioning table with accessories 4, 6 and 7

B dimension: 125 mm

325×125 0,028 m²	**q: 150 m³/h - 42 l/s $l_{0,2}$: 3,9 m**					**q: 200 m³/h - 56 l/s $l_{0,2}$: 5,5 m**					**q: 250 m³/h - 69 l/s $l_{0,2}$: 7,5 m**					**q: 300 m³/h - 83 l/s $l_{0,2}$: 9,0 m**					**q: 350 m³/h - 97 l/s $l_{0,2}$: 10,0 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	11	16	25	100%	p_t	14	22	32	100%	p_t	21	28	38	100%	p_t	25	35	48	100%	p_t	35	43	55
		L_W	33	44	55		L_W	36	46	56		L_W	39	48	57		L_W	41	50	57		L_W	45	52	58
	50%	p_t	20	28	38	50%	p_t	28	37	47	50%	p_t	38	47	60	50%	p_t	47	55	68	50%	p_t	69	78	89
		L_W	39	47	56		L_W	42	50	57		L_W	46	52	58		L_W	49	53	59		L_W	54	58	61
425×125 0,037 m²	**q: 200 m³/h - 56 l/s $l_{0,2}$: 4,5 m**					**q: 250 m³/h - 69 l/s $l_{0,2}$: 6,0 m**					**q: 300 m³/h - 83 l/s $l_{0,2}$: 7,5 m**					**q: 350 m³/h - 97 l/s $l_{0,2}$: 9,0 m**					**q: 400 m³/h - 111 l/s $l_{0,2}$: 10,0 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	10	16	24	100%	p_t	12	20	28	100%	p_t	19	26	36	100%	p_t	22	29	39	100%	p_t	27	35	48
		L_W	34	45	56		L_W	36	46	55		L_W	40	49	57		L_W	40	50	59		L_W	43	51	58
	50%	p_t	17	25	35	50%	p_t	26	35	46	50%	p_t	34	44	56	50%	p_t	43	52	62	50%	p_t	51	56	74
		L_W	39	49	57		L_W	42	49	57		L_W	46	52	59		L_W	47	53	59		L_W	51	53	59
525×125 0,047 m²	**q: 250 m³/h - 69 l/s $l_{0,2}$: 5,2 m**					**q: 300 m³/h - 83 l/s $l_{0,2}$: 7,0 m**					**q: 400 m³/h - 111 l/s $l_{0,2}$: 9,0 m**					**q: 500 m³/h - 139 l/s $l_{0,2}$: 10,5 m**					**q: 600 m³/h - 167 l/s $l_{0,2}$: 12,0 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	10	16	24	100%	p_t	12	20	29	100%	p_t	21	28	38	100%	p_t	27	35	48	100%	p_t	37	46	57
		L_W	35	46	57		L_W	37	47	56		L_W	41	50	59		L_W	44	52	59		L_W	48	55	60
	50%	p_t	17	25	35	50%	p_t	26	31	43	50%	p_t	38	47	60	50%	p_t	51	56	74	50%	p_t	72	82	93
		L_W	40	50	58		L_W	43	52	59		L_W	48	54	60		L_W	52	54	61		L_W	57	60	63
625×125 0,056 m²	**q: 300 m³/h - 83 l/s $l_{0,2}$: 6,0 m**					**q: 400 m³/h - 111 l/s $l_{0,2}$: 8,5 m**					**q: 500 m³/h - 139 l/s $l_{0,2}$: 10,0 m**					**q: 600 m³/h - 167 l/s $l_{0,2}$: 11,5 m**					**q: 700 m³/h - 194 l/s $l_{0,2}$: 13,0 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	10	16	24	100%	p_t	14	22	32	100%	p_t	21	28	38	100%	p_t	27	35	48	100%	p_t	35	43	55
		L_W	36	47	58		L_W	39	49	59		L_W	42	51	60		L_W	45	53	60		L_W	48	55	61
	50%	p_t	17	25	35	50%	p_t	28	37	47	50%	p_t	38	47	60	50%	p_t	51	56	74	50%	p_t	69	78	89
		L_W	41	51	59		L_W	45	53	60		L_W	49	55	61		L_W	53	55	61		L_W	57	61	64
825×125 0,074 m²	**q: 400 m³/h - 111 l/s $l_{0,2}$: 7,5 m**					**q: 500 m³/h - 139 l/s $l_{0,2}$: 9,0 m**					**q: 600 m³/h - 167 l/s $l_{0,2}$: 11,0 m**					**q: 700 m³/h - 194 l/s $l_{0,2}$: 11,5 m**					**q: 800 m³/h - 222 l/s $l_{0,2}$: 13,0 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	10	16	24	100%	p_t	12	20	28	100%	p_t	19	26	36	100%	p_t	22	29	39	100%	p_t	27	35	48
		L_W	36	47	58		L_W	39	49	58		L_W	43	52	60		L_W	43	53	62		L_W	46	54	62
	50%	p_t	17	25	35	50%	p_t	26	35	46	50%	p_t	34	44	56	50%	p_t	43	52	62	50%	p_t	51	56	74
		L_W	42	52	60		L_W	45	52	60		L_W	49	55	61		L_W	50	56	62		L_W	54	56	62
1025×125 0,093 m²	**q: 500 m³/h - 139 l/s $l_{0,2}$: 8,0 m**					**q: 600 m³/h - 167 l/s $l_{0,2}$: 9,5 m**					**q: 700 m³/h - 194 l/s $l_{0,2}$: 10,5 m**					**q: 800 m³/h - 222 l/s $l_{0,2}$: 12,0 m**					**q: 1000 m³/h - 278 l/s $l_{0,2}$: 14,0 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	10	16	24	100%	p_t	12	20	29	100%	p_t	16	23	33	100%	p_t	20	28	38	100%	p_t	27	35	48
		L_W	37	48	59		L_W	40	50	59		L_W	40	52	61		L_W	44	53	62		L_W	47	55	63
	50%	p_t	17	25	35	50%	p_t	26	31	43	50%	p_t	29	39	50	50%	p_t	38	45	60	50%	p_t	51	56	74
		L_W	43	53	61		L_W	46	55	62		L_W	48	56	63		L_W	51	57	63		L_W	55	57	63
1225×125 0,112 m²	**q: 600 m³/h - 167 l/s $l_{0,2}$: 9,0 m**					**q: 700 m³/h - 194 l/s $l_{0,2}$: 10,0 m**					**q: 800 m³/h - 222 l/s $l_{0,2}$: 11,5 m**					**q: 1000 m³/h - 278 l/s $l_{0,2}$: 13,0 m**					**q: 1200 m³/h - 333 l/s $l_{0,2}$: 15,0 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	10	16	24	100%	p_t	12	19	27	100%	p_t	14	22	32	100%	p_t	21	28	38	100%	p_t	27	35	48
		L_W	38	49	60		L_W	41	51	62		L_W	42	52	62		L_W	45	54	63		L_W	48	56	64
	50%	p_t	17	25	35	50%	p_t	21	30	41	50%	p_t	28	37	47	50%	p_t	38	47	60	50%	p_t	51	56	74
		L_W	44	54	62		L_W	46	55	63		L_W	52	58	63		L_W	52	58	64		L_W	56	58	64

Circular duct grille

RGS

Technical data-Supply and exhaust air

Dimensioning table with accessories 4, 6 and 7

B dimension: 150 mm

325×150 0,034 m²	**q: 200 m³/h - 56 l/s $l_{0,2}$: 5,0 m**				**q: 250 m³/h - 69 l/s $l_{0,2}$: 6,5 m**				**q: 300 m³/h - 83 l/s $l_{0,2}$: 8,5 m**				**q: 350 m³/h - 97 l/s $l_{0,2}$: 9,5 m**				**q: 400 m³/h - 111 l/s $l_{0,2}$: 10,5 m**			
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	11	16	25	100%	p_t	14	22	32	100%	p_t	21	28	38	100%	p_t	25	35	48	100%	p_t	30	38	52
		L_W	34	45	54		L_W	37	47	57		L_W	40	49	58		L_W	42	51	58		L_W	44	52	59
	50%	p_t	20	30	40	50%	p_t	28	37	47	50%	p_t	38	47	60	50%	p_t	48	57	67	50%	p_t	60	65	81
		L_W	40	48	57		L_W	43	51	58		L_W	47	53	59		L_W	50	54	60		L_W	52	54	61
425×150 0,045 m²	**q: 250 m³/h - 69 l/s $l_{0,2}$: 5,2 m**				**q: 300 m³/h - 83 l/s $l_{0,2}$: 7,0 m**				**q: 400 m³/h - 111 l/s $l_{0,2}$: 9,0 m**				**q: 500 m³/h - 139 l/s $l_{0,2}$: 10,5 m**				**q: 600 m³/h - 167 l/s $l_{0,2}$: 12,0 m**			
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	10	16	24	100%	p_t	12	20	29	100%	p_t	21	28	38	100%	p_t	27	35	48	100%	p_t	37	46	57
		L_W	35	46	57		L_W	37	47	56		L_W	41	50	59		L_W	44	52	59		L_W	48	55	60
	50%	p_t	17	25	35	50%	p_t	26	31	43	50%	p_t	38	47	60	50%	p_t	51	56	74	50%	p_t	72	82	93
		L_W	40	50	58		L_W	43	52	59		L_W	48	54	60		L_W	52	54	61		L_W	57	60	63
525×150 0,056 m²	**q: 300 m³/h - 83 l/s $l_{0,2}$: 6,0 m**				**q: 400 m³/h - 111 l/s $l_{0,2}$: 8,5 m**				**q: 500 m³/h - 139 l/s $l_{0,2}$: 10,0 m**				**q: 600 m³/h - 167 l/s $l_{0,2}$: 11,5 m**				**q: 700 m³/h - 194 l/s $l_{0,2}$: 13,0 m**			
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	10	16	24	100%	p_t	14	22	32	100%	p_t	21	28	38	100%	p_t	27	35	48	100%	p_t	35	43	55
		L_W	36	47	58		L_W	39	49	59		L_W	42	51	60		L_W	45	53	60		L_W	48	55	61
	50%	p_t	17	25	35	50%	p_t	28	37	47	50%	p_t	38	47	60	50%	p_t	51	56	74	50%	p_t	69	78	89
		L_W	41	51	59		L_W	45	53	60		L_W	49	55	61		L_W	53	55	61		L_W	57	61	64
625×150 0,068 m²	**q: 400 m³/h - 111 l/s $l_{0,2}$: 7,0 m**				**q: 500 m³/h - 139 l/s $l_{0,2}$: 9,0 m**				**q: 600 m³/h - 167 l/s $l_{0,2}$: 10,5 m**				**q: 700 m³/h - 194 l/s $l_{0,2}$: 11,5 m**				**q: 800 m³/h - 222 l/s $l_{0,2}$: 130 m**			
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	11	17	26	100%	p_t	14	22	32	100%	p_t	21	28	38	100%	p_t	25	35	48	100%	p_t	30	38	52
		L_W	37	48	59		L_W	40	50	60		L_W	43	52	61		L_W	45	54	61		L_W	47	55	62
	50%	p_t	20	28	38	50%	p_t	28	37	47	50%	p_t	38	47	60	50%	p_t	48	57	68	50%	p_t	60	65	81
		L_W	43	51	60		L_W	46	54	61		L_W	50	52	62		L_W	53	57	63		L_W	55	57	64
825×150 0,093 m²	**q: 500 m³/h - 139 l/s $l_{0,2}$: 8,0 m**				**q: 600 m³/h - 167 l/s $l_{0,2}$: 9,5 m**				**q: 700 m³/h - 194 l/s $l_{0,2}$: 10,5 m**				**q: 800 m³/h - 222 l/s $l_{0,2}$: 12,0 m**				**q: 1000 m³/h - 278 l/s $l_{0,2}$: 14,0 m**			
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	10	16	24	100%	p_t	12	20	29	100%	p_t	16	23	33	100%	p_t	20	28	38	100%	p_t	27	35	48
		L_W	37	48	59		L_W	40	50	59		L_W	40	52	61		L_W	44	53	62		L_W	47	55	63
	50%	p_t	17	25	35	50%	p_t	26	31	43	50%	p_t	29	39	50	50%	p_t	38	45	60	50%	p_t	51	56	74
		L_W	43	53	61		L_W	46	55	62		L_W	48	56	63		L_W	51	57	63		L_W	55	57	63
1025×150 0,112 m²	**q: 600 m³/h - 167 l/s $l_{0,2}$: 9,0 m**				**q: 700 m³/h - 194 l/s $l_{0,2}$: 10,0 m**				**q: 800 m³/h - 222 l/s $l_{0,2}$: 11,0 m**				**q: 1000 m³/h - 278 l/s $l_{0,2}$: 13,0 m**				**q: 1200 m³/h - 333 l/s $l_{0,2}$: 15,0 m**			
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	10	16	24	100%	p_t	12	19	27	100%	p_t	14	22	32	100%	p_t	21	28	38	100%	p_t	27	35	48
		L_W	38	49	60		L_W	41	51	62		L_W	42	52	62		L_W	45	54	63		L_W	48	56	64
	50%	p_t	17	25	35	50%	p_t	21	30	41	50%	p_t	28	37	47	50%	p_t	38	47	60	50%	p_t	51	56	74
		L_W	44	54	62		L_W	46	55	63		L_W	48	56	63		L_W	52	58	64		L_W	56	58	64
1225×150 0,136 m²	**q: 700 m³/h - 222 l/s $l_{0,2}$: 8,5 m**				**q: 800 m³/h - 278 l/s $l_{0,2}$: 10,0 m**				**q: 1000 m³/h - 333 l/s $l_{0,2}$: 11,5 m**				**q: 1200 m³/h - 389 l/s $l_{0,2}$: 13,0 m**				**q: 1400 m³/h - 444 l/s $l_{0,2}$: 15,0 m**			
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	8	15	22	100%	p_t	11	16	25	100%	p_t	14	22	32	100%	p_t	21	28	38	100%	p_t	25	35	48
		L_W	39	49	61		L_W	39	50	61		L_W	42	52	62		L_W	45	54	63		L_W	47	56	63
	50%	p_t	16	23	33	50%	p_t	20	28	38	50%	p_t	28	37	47	50%	p_t	38	47	60	50%	p_t	48	57	67
		L_W	41	53	62		L_W	45	53	62		L_W	48	56	63		L_W	52	58	64		L_W	55	59	65

We reserve the right to make changes
2020-02-13

Circular duct grille RGS

Technical data-Supply and exhaust air

Dimensioning table with accessories 4, 6 and 7

B dimension: 225 mm

325×225 0,056 m²	**q: 300 m³/h - 83 l/s $l_{0,2}$: 6,0 m**					**q: 400 m³/h - 111 l/s $l_{0,2}$: 8,5 m**					**q: 500 m³/h - 139 l/s $l_{0,2}$: 10,0 m**					**q: 600 m³/h - 167 l/s $l_{0,2}$: 11,5 m**					**q: 700 m³/h - 194 l/s $l_{0,2}$: 13,0 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	10	16	24	100%	p_t	14	22	32	100%	p_t	21	28	38	100%	p_t	27	35	48	100%	p_t	35	43	55
		L_W	36	47	58		L_W	39	49	59		L_W	42	51	60		L_W	45	53	60		L_W	48	55	61
	50%	p_t	17	25	35	50%	p_t	28	37	47	50%	p_t	38	47	60	50%	p_t	51	56	74	50%	p_t	69	78	89
		L_W	41	51	59		L_W	45	53	60		L_W	49	55	61		L_W	53	55	61		L_W	57	61	64
425×225 0,074 m²	**q: 400 m³/h - 111 l/s $l_{0,2}$: 7,5 m**					**q: 500 m³/h - 139 l/s $l_{0,2}$: 9,0 m**					**q: 600 m³/h - 167 l/s $l_{0,2}$: 11,0 m**					**q: 700 m³/h - 194 l/s $l_{0,2}$: 11,5 m**					**q: 800 m³/h - 222 l/s $l_{0,2}$: 13,0 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	10	16	24	100%	p_t	12	20	28	100%	p_t	19	26	36	100%	p_t	22	29	39	100%	p_t	27	35	48
		L_W	36	47	58		L_W	39	49	58		L_W	43	52	60		L_W	43	53	62		L_W	46	54	62
	50%	p_t	17	25	35	50%	p_t	26	35	46	50%	p_t	34	44	56	50%	p_t	43	52	62	50%	p_t	51	56	74
		L_W	42	52	60		L_W	45	52	60		L_W	49	55	61		L_W	50	56	62		L_W	54	56	62
525×225 0,093 m²	**q: 500 m³/h - 139 l/s $l_{0,2}$: 8,0 m**					**q: 600 m³/h - 167 l/s $l_{0,2}$: 9,5 m**					**q: 700 m³/h - 194 l/s $l_{0,2}$: 10,5 m**					**q: 800 m³/h - 222 l/s $l_{0,2}$: 12,0 m**					**q: 1000 m³/h - 278 l/s $l_{0,2}$: 14,0 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	10	16	24	100%	p_t	12	20	29	100%	p_t	16	23	33	100%	p_t	20	28	38	100%	p_t	27	35	48
		L_W	37	48	59		L_W	40	50	59		L_W	40	52	61		L_W	44	53	62		L_W	47	55	63
	50%	p_t	17	25	35	50%	p_t	26	31	43	50%	p_t	29	39	50	50%	p_t	38	45	60	50%	p_t	51	56	74
		L_W	43	53	61		L_W	46	55	62		L_W	48	56	63		L_W	51	57	63		L_W	55	57	63
625×225 0,112 m²	**q: 600 m³/h - 167 l/s $l_{0,2}$: 9,0 m**					**q: 700 m³/h - 194 l/s $l_{0,2}$: 10,0 m**					**q: 800 m³/h - 222 l/s $l_{0,2}$: 11,0 m**					**q: 1000 m³/h - 278 l/s $l_{0,2}$: 13,0 m**					**q: 1200 m³/h - 333 l/s $l_{0,2}$: 15,0 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	10	16	24	100%	p_t	12	19	27	100%	p_t	14	22	32	100%	p_t	21	28	38	100%	p_t	27	35	48
		L_W	38	49	60		L_W	41	51	62		L_W	42	52	62		L_W	45	54	63		L_W	48	56	64
	50%	p_t	17	25	35	50%	p_t	21	30	41	50%	p_t	28	37	47	50%	p_t	38	47	60	50%	p_t	51	56	74
		L_W	44	54	62		L_W	46	55	63		L_W	48	56	63		L_W	52	58	64		L_W	56	58	64
825×225 0,148 m²	**q: 800 m³/h - 222 l/s $l_{0,2}$: 9,5 m**					**q: 1000 m³/h - 278 l/s $l_{0,2}$: 11,5 m**					**q: 1200 m³/h - 333 l/s $l_{0,2}$: 13,0 m**					**q: 1400 m³/h - 389 l/s $l_{0,2}$: 15,0 m**					**q: 1600 m³/h - 444 l/s $l_{0,2}$: 17,0 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	10	16	24	100%	p_t	12	20	28	100%	p_t	19	26	36	100%	p_t	22	30	40	100%	p_t	27	35	48
		L_W	39	50	61		L_W	42	52	61		L_W	46	55	63		L_W	46	56	64		L_W	49	57	65
	50%	p_t	17	25	35	50%	p_t	27	35	45	50%	p_t	34	44	56	50%	p_t	43	52	62	50%	p_t	51	56	74
		L_W	45	55	63		L_W	48	55	63		L_W	52	58	65		L_W	53	59	65		L_W	57	59	65
1025×225 0,186 m²	**q: 1000 m³/h - 278 l/s $l_{0,2}$: 11,0 m**					**q: 1200 m³/h - 333 l/s $l_{0,2}$: 12,0 m**					**q: 1400 m³/h - 389 l/s $l_{0,2}$: 13,5 m**					**q: 1600 m³/h - 444 l/s $l_{0,2}$: 15,0 m**					**q: 1800 m³/h - 500 l/s $l_{0,2}$: 17,0 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	10	16	24	100%	p_t	12	20	30	100%	p_t	16	23	33	100%	p_t	20	27	37	100%	p_t	23	31	42
		L_W	40	51	62		L_W	43	53	62		L_W	43	55	64		L_W	47	56	65		L_W	48	57	66
	50%	p_t	17	25	35	50%	p_t	26	31	43	50%	p_t	30	41	49	50%	p_t	38	45	60	50%	p_t	44	52	64
		L_W	46	56	64		L_W	49	58	65		L_W	51	59	66		L_W	54	60	66		L_W	56	61	66
1225×225 0,224 m²	**q: 1200 m³/h - 333 l/s $l_{0,2}$: 11,0 m**					**q: 1400 m³/h - 389 l/s $l_{0,2}$: 12,0 m**					**q: 1600 m³/h - 444 l/s $l_{0,2}$: 14,0 m**					**q: 1800 m³/h - 500 l/s $l_{0,2}$: 15,5 m**					**q: 2000 m³/h - 556 l/s $l_{0,2}$: 17,0 m**				
	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9	v_k-m/s		3	6	9
	100%	p_t	10	16	24	100%	p_t	12	19	27	100%	p_t	14	22	32	100%	p_t	18	25	35	100%	p_t	21	28	38
		L_W	40	51	62		L_W	43	53	64		L_W	44	54	64		L_W	47	56	64		L_W	47	56	65
	50%	p_t	17	25	35	50%	p_t	21	30	41	50%	p_t	28	37	47	50%	p_t	34	44	56	50%	p_t	38	47	60
		L_W	46	56	64		L_W	48	57	65		L_W	50	58	66		L_W	53	59	66		L_W	54	60	66

Good Thinking

At Lindab, good thinking is a philosophy that guides us in everything we do. We have made it our mission to create a healthy indoor climate – and to simplify the construction of sustainable buildings. We do that by designing innovative products and solutions that are easy to use, as well as offering efficient availability and logistics. We are also working on ways to reduce our impact on our environment and climate. We do that by developing methods to produce our solutions using a minimum of energy and natural resources, and by reducing negative effects on the environment. We use steel in our products. It's one of few materials that can be recycled an infinite number of times without losing any of its properties. That means less carbon emissions in nature and less energy wasted.

We simplify construction