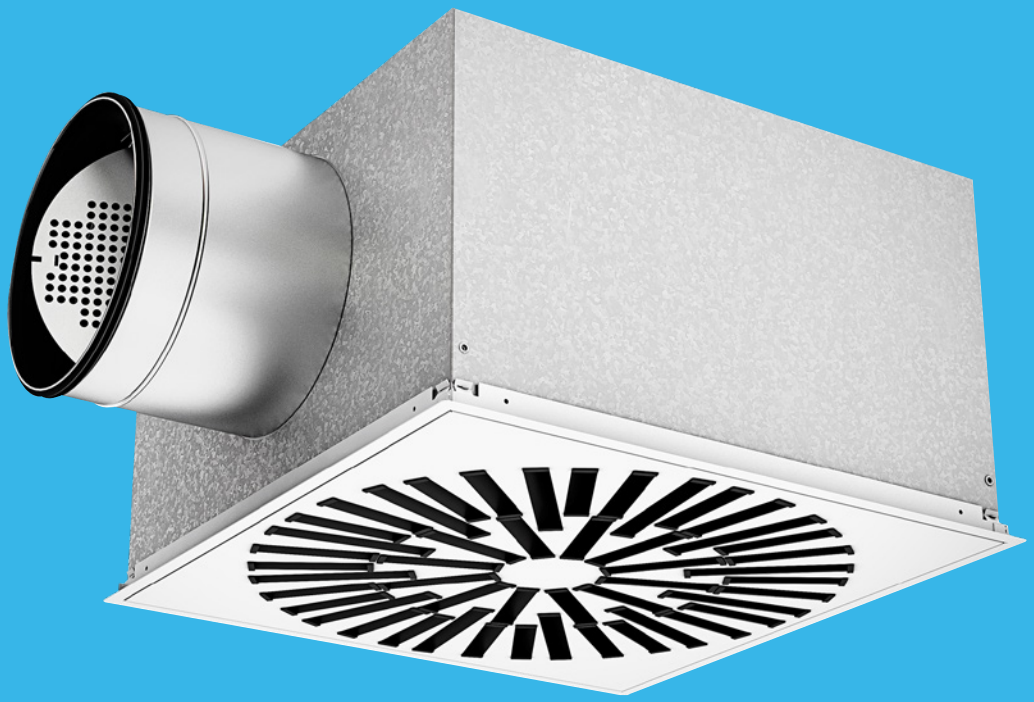


Lindab **RS16**

Versio - Ceiling diffusers

Versio - Ceiling diffusers RS16

RS16 with grille box type V.

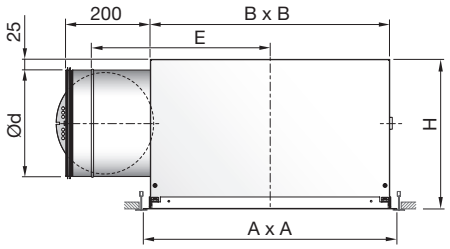
RS16 with plenum box type H.

Description

RS16 is a square swirl diffuser with adjustable bars that can be used for both supply air and extract. The swirl pattern ensures high induction and a large dynamic range, and is therefore ideal for the horizontal supply of very cold air. For extract, the diffuser is supplied as standard without bars.

- High capacity
- Large dynamic range
- High induction
- Ideal for the supply of very cold air
- Can be used for both supply air and extract
- Plenum box with several damper options

Dimensions



RS16-H

Ød		A	B	H	E	m
mm	Pattern	mm				kg
250	600	*595	562	351	420	12.3
315	600	*595	562	416	420	13.1

* Face plate dimensions A x A shown in table above are valid for ceiling type 1, T24/T15. The A x A dimension depends on ceiling system. See Ceiling tile adjustment for detailed dimensions. For further details on plenum boxes, see the following pages. Configure your RS16 in the LindQST airborne calculator .

Maintenance

The face plate can be removed to enable cleaning of internal parts or to gain access to the duct or box. The visible parts of the diffuser can be wiped with a damp cloth.

Order code

Product			RS	16	b	c	d	eee	f
Type									
RS									
Design									
16									
Box type									
V - H - R									
Functional use									
S = Supply air									
E = Extract									
Damper									
0 = No damper	(Box	: H, V)							
1 = Damper	(Box	: H, R)							
2 = Damper / Meas.outlets	(Box	: H)							
Connection dim.									
Ø315	(Box	: V)							
Ø250-315	(Box	: H)							
500x100	(Box	: R)							
Ceiling system									
1 - 14	Ceiling systems, see ceiling tile adaption								

Example: RS-16-V-S-0-315-1

Materials and finish

Grille box/plenum box:

Material:	Galvanised steel

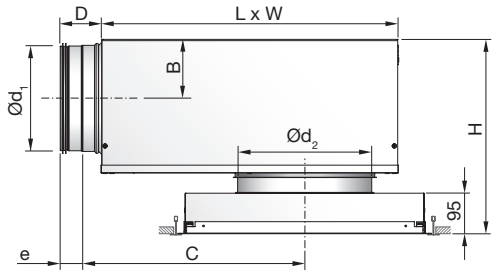
Face plate:

Material:	Galvanised steel
Bars:	Black ABS-plastic
Standard finish:	Powder-coated
Standard colours:	RAL 9003 and RAL 9010, gloss 30.

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

Versio - Ceiling diffusers RS16

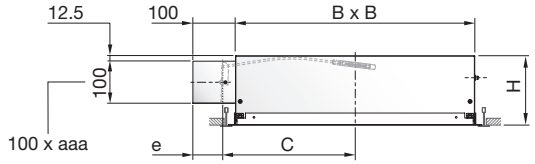
RS16-V + MB plenum box



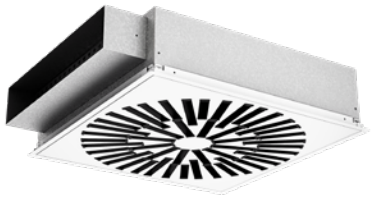
Ød1	Ød2	Pattern	B	C	D	e	H*	L	W
mm			mm						
200	315	600	112	425	78	40	347 - 387	565	460
250	315	600	137	514	118	60	397 - 437	698	540
315	315	600	170	675	118	60	462 - 502	858	540

* Using accessory MBZ the H dimension will increase:
$Ød_2$ = 200 mm => H +40 mm
$Ød_2$ = 250 - 315 mm => H +60 mm

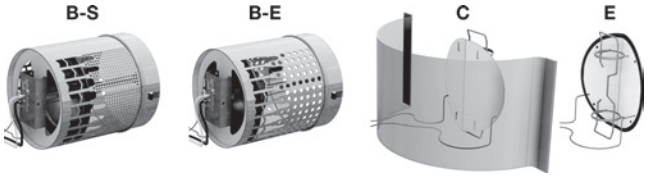
RS16 + R plenum box



aaa x 100	Pattern	B	C	H	e
mm		mm			
500 x 100	600	562	311	161	70



Damper options



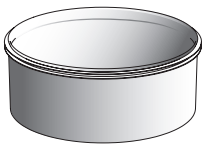
Order code

Product	MB	a	bbb	ccc	d
Type					
MB					
Damper					
B = Linear cone damper					
C = Blade damper supply					
E = Blade damper extract					
Duct connection Ød1					
Ø200-315					
Diffuser dimension Ød2					
Ø315					
Function (Only for B damper)					
S = Supply air E = Extract					

Example 1: RS-16-V-S-0-315-1+MBB-250-315-S
Example 2: RS-16-V-S-0-315-1+MBC-250-315

Accessories

MBZ - Extension piece



Order code

Product	MBZ	aaa
Type		
Size		

Example: MBZ-200

PBB - Mounting bracket (set)

MHS - Suspension

Order code

Product	aaa
Type	

Example: MHS

Versio - Ceiling diffusers RS16

Technical data

Following RS16-V+plenum box data are valid for MBB-S/-E. For MBC and MBE data, go to LindQST airborne calculator .

Capacity

Air flow q_v [l/s] and [m³/h], total pressure Δp_t [Pa], throw $l_{0.2}$ [m] and sound power level L_{WA} [dB(A)] can be seen in the diagrams.

Frequency-related sound power level

The sound power level in the frequency band is defined as $L_{WA}+K_{ok}$. K_{ok} values are specified in charts beneath the diagrams on the following pages.

Quick selection, supply air

RS16-V + MBB-S

RS16-V + MBB-S		$\Delta p_t \geq 50$ Pa		$\Delta p_t \geq 50$ Pa	
Duct	RS16-V	30 dB(A)		35 dB(A)	
$Ød_1$	$Ød_2$	l/s	m³/h	l/s	m³/h
200	315	99	356	131	472
250	315	126	454	160	576
315	315	155	558	185	666

RS16 + H

RS16 + H			$\Delta p_t \geq 50$ Pa		$\Delta p_t \geq 50$ Pa	
Size Ød	Minimum		30 dB(A)		35 dB(A)	
mm	l/s	m³/h	l/s	m³/h	l/s	m³/h
250	71	254	-	-	112	403
315	95	342	-	-	174	626

Sound attenuation

Sound attenuation of the diffusers ΔL from duct to room, including end reflection - see table below.

RS16-V + MBB-S/-E

RS16-V + MBB-S/-E		Centre frequency Hz							
Duct	RS16-V								
$Ød_1$	$Ød_2$	63	125	250	500	1K	2K	4K	8K
200	315	13	9	3	16	16	15	17	16
250	315	12	7	5	17	16	17	17	18
315	315	8	10	8	17	18	17	18	23

RS16 + H

RS16-H	Centre frequency Hz							
Size Ød								
mm	63	125	250	500	1K	2K	4K	8K
250	13	8	4	8	5	5	7	9
315	12	7	5	11	5	5	6	8

RS16 + R

RS16 + R	Mean frequency Hz							
Size-2								
mm	63	125	250	500	1K	2K	4K	8K
500x100	12	7	2	4	2	5	5	5

Installation -and balancing instruction

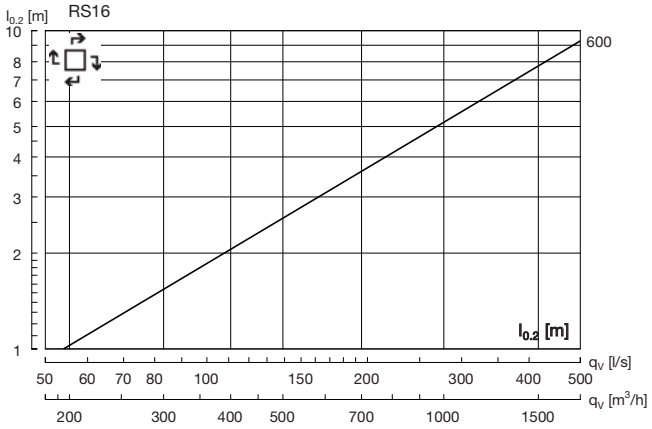
For futher information go to LindQST and get all related documentation, including installation -and balancing instruction.

Versio - Ceiling diffusers RS16

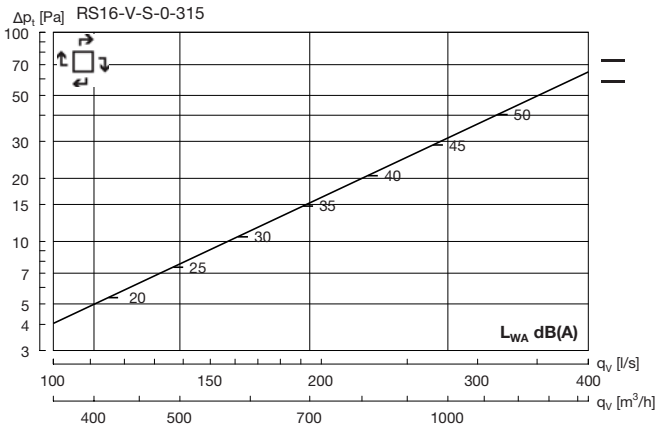
Technical data

Throw $l_{0.2}$

Throw $l_{0.2}$ [m] is specified at a terminal velocity of 0.2 m/s. The designation by the lines specifies the pattern on the face plate.



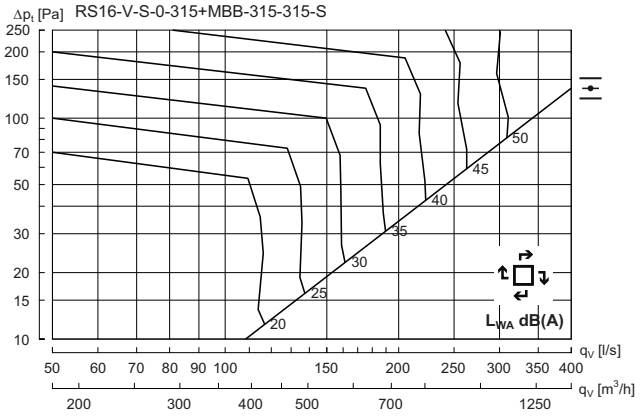
RS16-V without plenum box - supply air



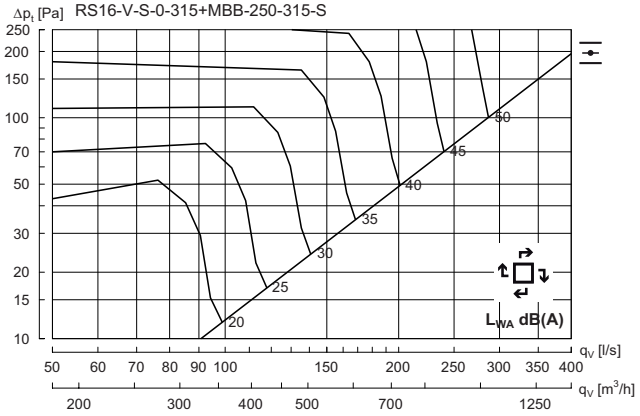
Versio - Ceiling diffusers RS16

Technical data

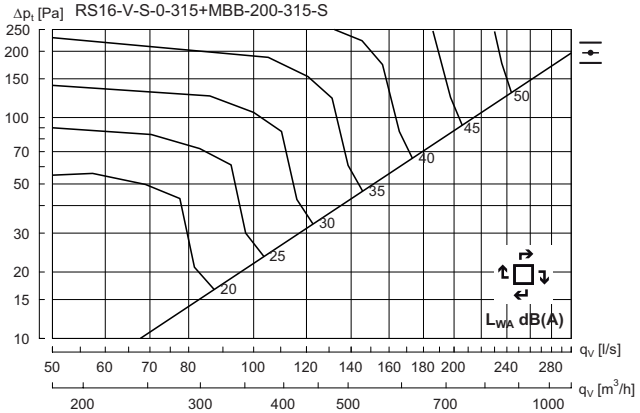
RS16-V 315 + MBB-S - Supply air



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	8	1	-1	0	-6	-14	-21	-30



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	10	4	-1	-1	-5	-12	-19	-26

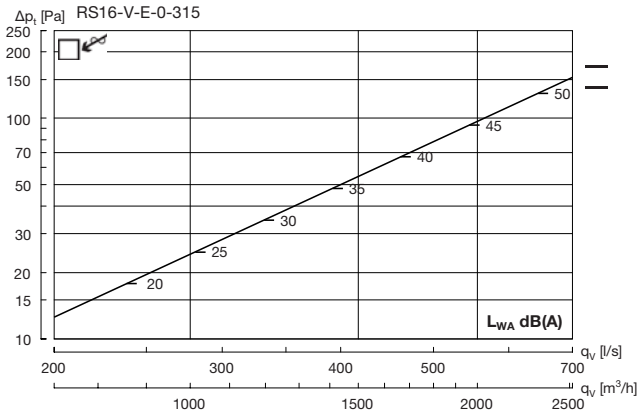


Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	12	7	-1	-2	-5	-12	-18	-24

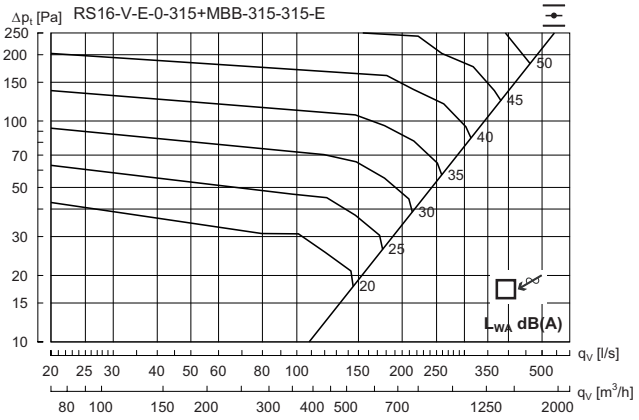
Versio - Ceiling diffusers RS16

Technical data

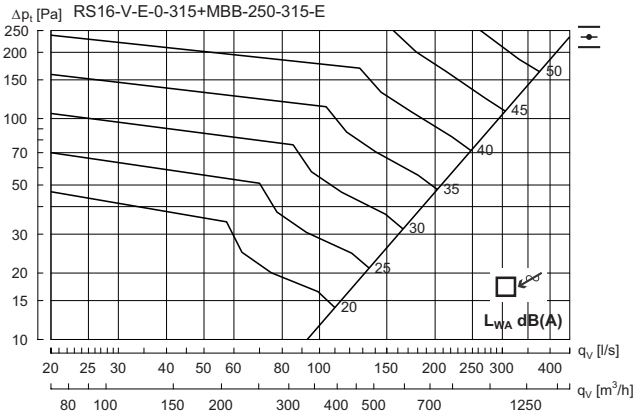
RS16-V without plenum box–Extract air



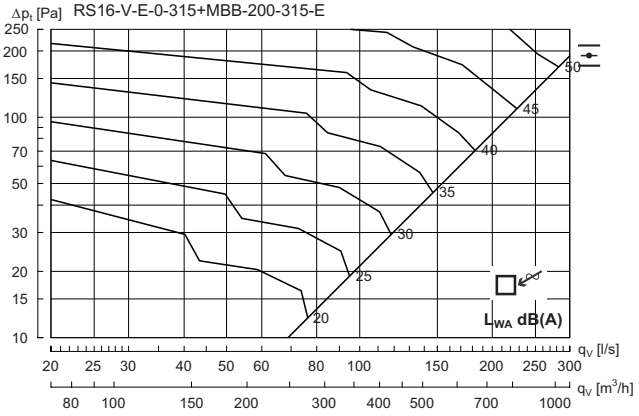
RS16-V 315 + MBB-E - Extract air



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	11	5	3	-4	-6	-9	-15	-26



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	11	6	3	-4	-6	-11	-16	-24

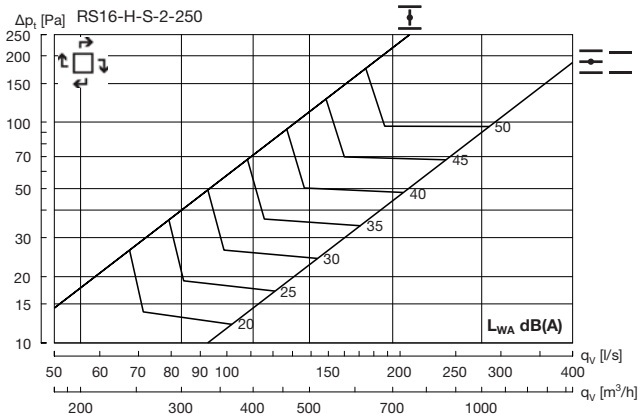


Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	14	5	1	-3	-6	-9	-13	-21

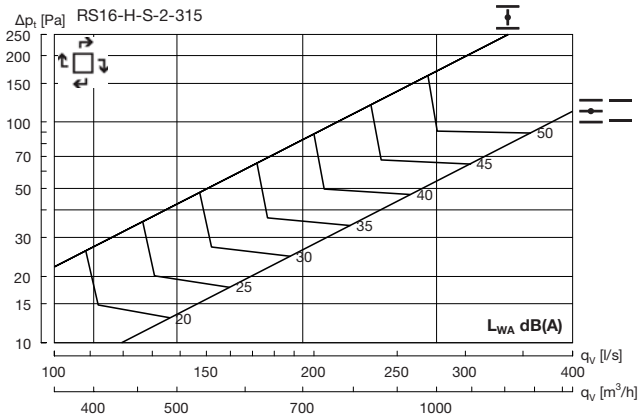
Versio - Ceiling diffusers RS16

Technical data

RS16 + H - Supply air

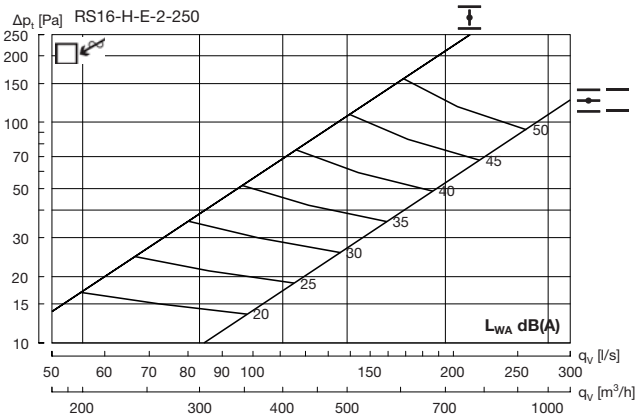


Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	5	5	2	-1	-6	-13	-19	-27

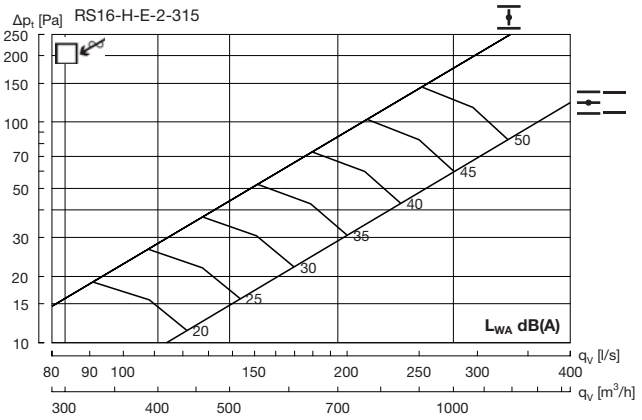


Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	8	5	1	-1	-5	-13	-21	-31

RS16 + H - Extract air



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	2	6	3	-2	-7	-12	-21	-30

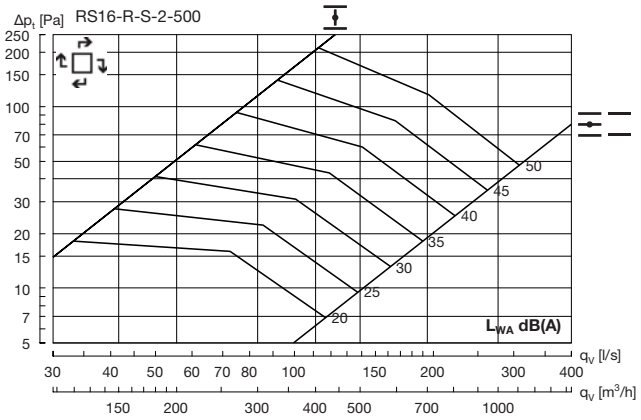


Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	8	5	2	-2	-5	-12	-21	-32

Versio - Ceiling diffusers RS16

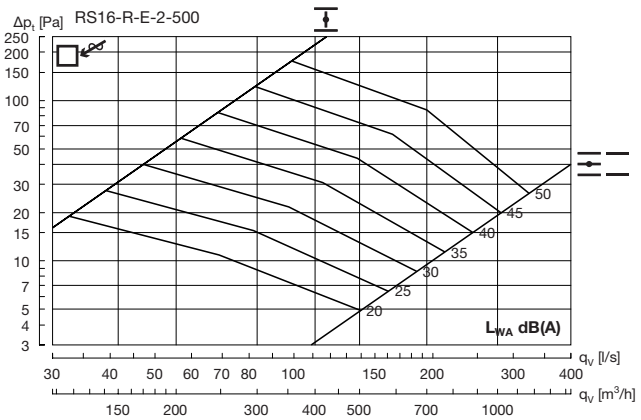
Technical data

RS16 + R - Supply air



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	9	2	3	-1	-8	-12	-21	-28

RS16 + R - Extract air



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	8	0	0	-3	-5	-8	-18	-26

Most of us spend the majority of our time indoors. Indoor climate is crucial to how we feel, how productive we are and if we stay healthy.

We at Lindab have therefore made it our most important objective to contribute to an indoor climate that improves people's lives. We do this by developing energy-efficient ventilation solutions and durable building products. We also aim to contribute to a better climate for our planet by working in a way that is sustainable for both people and the environment.

Lindab | For a better climate