



Lindab **RS14**

Versio - Ceiling diffusers



Versio - Ceiling diffusers

RS14



RS14 with grille box type V.

Description

RS14 is a square swirl diffuser with fixed bars. RS14 can be used for both supply and extract air. The swirl pattern ensures high induction and a large dynamic range. It is therefore ideal for the horizontal supply of very cold air.

- Large dynamic range
- High induction
- Suitable for cooling at very low temperatures
- Can be used for both supply and extract air
- Plenum box with several damper options

Order code

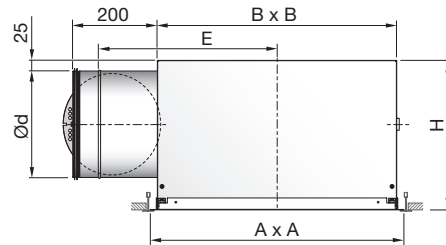
Product	RS	14	b	c	d	eee	f
Type	RS						
Design	14						
Box type	V - H - R						
Functional use	S = Supply air E = Extract						
Damper	0 = No damper (Box : H, V) 1 = Damper (Box : H, R) 2 = Damper / Meas.outlets (Box : H)						
Connection dim.	Ø160-315 (Box : V) Ø125-315 (Box : H) 200x100 - 500x100 (Box : R)						
Ceiling system	1 - 14	Ceiling systems, see ceiling tile adaption					

Example: RS-14-V-S-0-200-1



RS14 with plenum box type H.

Dimensions



RS14-H

Ød mm	Pattern	A	B	H	E	m kg
125	400	*595	382	226	350	5.9
160	400	*595	382	261	350	5.9
200	500	*595	462	301	390	8.5
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 adaption](#) for detailed dimensions. For further details on plenum boxes, see the following pages. Configure your RS14 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.

Materials and finish

Grille box/plenum box:

Material: Galvanised steel

Face plate:

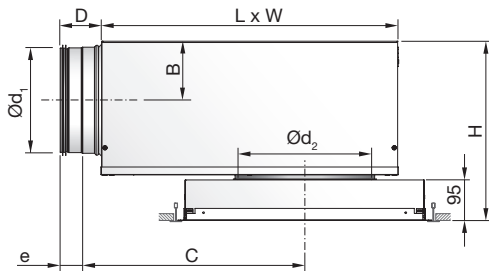
Material: Galvanised steel
Standard finish: Powder-coated
Standard colours: RAL 9003 or RAL 9010, gloss 30.

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

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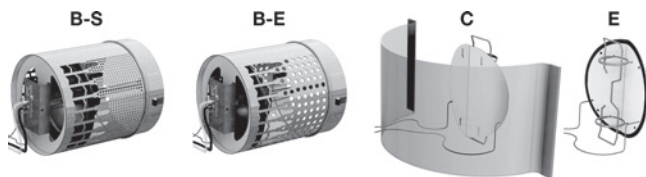
RS14-V + MB plenum box



Ød ₁ mm	Ød ₂ mm	Pattern	B	C	D	e	H*	L	W
			mm						
100	160	300	62	245	78	40	258 - 298	310	260
125	160	300	75	291	78	40	283 - 323	376	310
125	200	400	75	291	78	40	283 - 323	376	310
160	160	300	92	352	78	40	317 - 357	459	380
160	200	400	92	352	78	40	317 - 357	459	380
160	250	500	92	352	78	40	317 - 357	459	380
200	200	400	112	425	78	40	358 - 398	565	460
200	250	500	112	425	78	40	358 - 398	565	460
200	315	600	112	425	78	40	358 - 398	565	460
250	250	500	137	514	118	60	408 - 448	698	540
250	315	600	137	514	118	60	408 - 448	698	540
315	315	600	170	675	118	60	473 - 513	858	540

* Using accessory MBZ the H dimension will increase:
 Ød₂ = 160 - 200 mm => H +40 mm
 Ød₂ = 250 - 315 mm => H +60 mm

Damper options

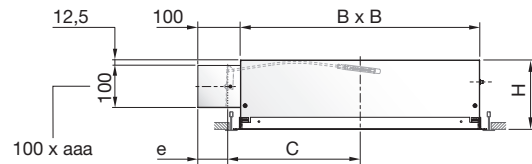


Order code

Product	MB	a	bbb	ccc	d
Type					
MB					
Damper					
B = Linear cone damper					
C = Blade damper supply					
E = Blade damper extract					
Duct connection Ød ₁					
Ø100-315					
Diffuser dimension Ød ₂					
Ø160-315					
Function (Only for B damper)					
S = Supply air					
E = Extract					

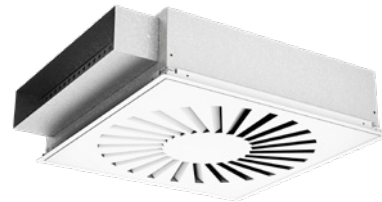
Example 1: RS-14-V-S-0-200-1+MBB-160-200-S
 Example 2: RS-14-S-0-200-1+MBC-160-200

RS14 + R plenum box



RS14 + R

aaa x 100 mm	Pattern	B	C	H	e
		mm			
200 x 100	400	382	221	161	70
300 x 100	400	382	221	161	70
400 x 100	500	462	261	161	70
500 x 100	600	562	311	161	70



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

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Technical data

Following RS14-V+plenum box data are valid for MBB-S/-E. For MBB-S/-E, 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

RS14-V + MBB-S

RS14-V + MBB-S		$\Delta p_t \geq 50$ Pa 30 dB(A)		$\Delta p_t \geq 50$ Pa 35 dB(A)	
duct $\varnothing d_1$	RS14-V $\varnothing d_2$	l/s	m ³ /h	l/s	m ³ /h
100	160	33	119	41	148
125	160	44	158	52	187
125	200	49	176	59	212
160	160	38	137	46	166
160	200	51	184	62	223
160	250	67	241	85	306
200	200	65	234	77	277
200	250	77	277	95	342
200	315	100	360	124	446
250	250	89	320	104	374
250	315	110	396	132	475
315	315	129	464	151	544

Supply air

RS14 + H

RS14 + H		Minimum		$\Delta p_t \geq 50$ Pa 30 dB(A)		$\Delta p_t \geq 50$ Pa 35 dB(A)	
Size $\varnothing d$ mm		l/s	m ³ /h	l/s	m ³ /h	l/s	m ³ /h
125		26	93	28	101	34	122
160		33	118	53	191	63	227
200		57	204	65	234	80	288
250		71	254	89	320	107	385
315		95	342	-	-	148	533

Sound attenuation

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

RS14-V + MBB-S/-E

RS14-V + MBB-S/-E		Centre frequency Hz							
duct $\varnothing d_1$	RS14-V $\varnothing d_2$	63	125	250	500	1K	2K	4K	8K
100	160	20	16	5	19	20	19	18	21
125	160	16	13	9	20	18	18	19	20
125	200	14	12	6	17	16	16	18	19
160	160	17	16	10	24	20	20	21	21
160	200	15	15	7	22	21	19	20	21
160	250	15	14	5	20	16	16	17	19
200	200	14	11	7	18	21	17	20	18
200	250	13	9	5	17	18	16	18	17
200	315	13	8	3	15	17	15	17	16
250	250	15	8	7	18	18	18	18	19
250	315	15	7	6	16	16	17	17	18
315	315	8	11	8	16	18	17	17	22

RS14 + H

RS14 + H		Centre frequency Hz							
Size $\varnothing d$ mm		63	125	250	500	1K	2K	4K	8K
125		18	13	8	18	14	11	12	14
160		17	13	3	14	13	7	7	8
200		15	10	3	13	9	6	8	10
250		12	9	6	11	8	7	10	12
315		12	7	7	13	8	7	10	12

RS14 + R

RS14 + R		Mean frequency Hz							
Size-2 mm		63	125	250	500	1K	2K	4K	8K
200x100		19	14	9	6	5	3	3	4
300x100		16	11	5	5	6	5	3	4
400x100		13	8	2	3	4	5	4	5
500x100		12	7	2	4	2	5	5	5

Installation -and balancing instruction

For further information go to [LindQST](#) and get all related documentation including installation -and balancing instruction.

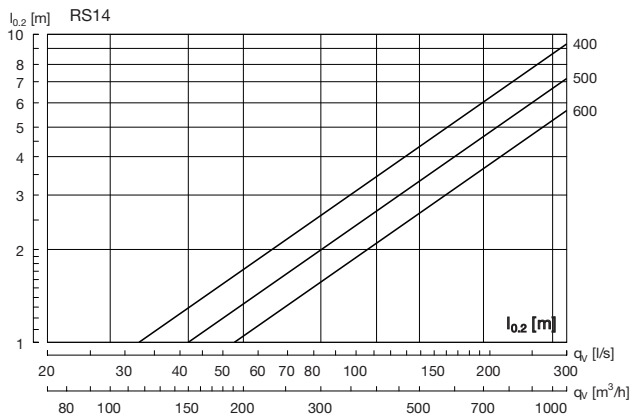
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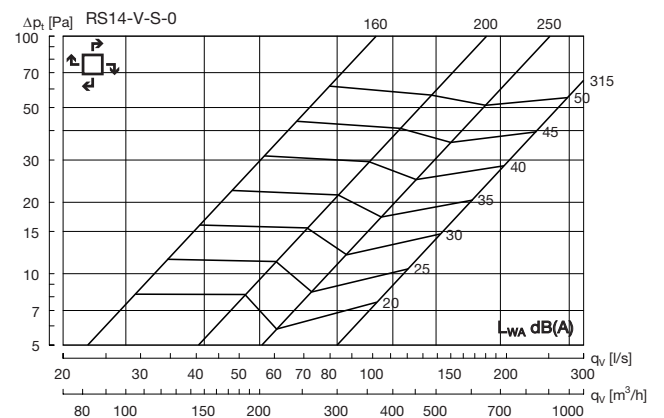
Technical data

Throw $I_{0.2}$

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



RS14-V without plenum box-Supply air

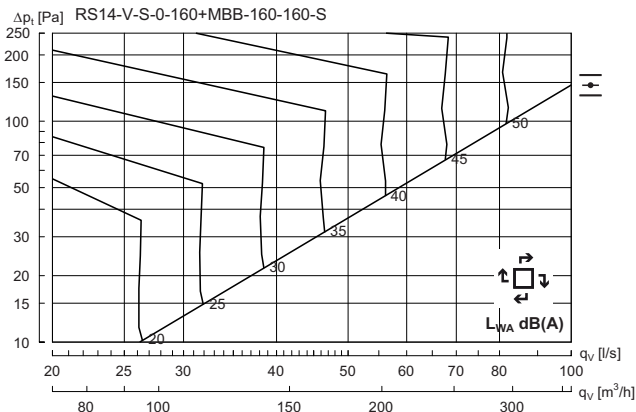


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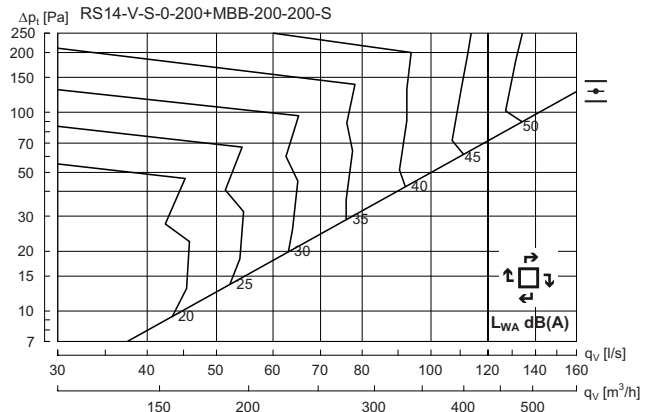
Technical data

RS14-V 160 + MBB-S - Supply air

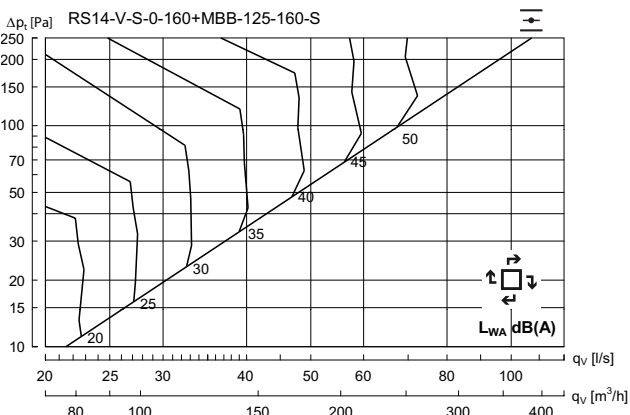


Hz	63	125	250	500	1K	2K	4K	8K
K _{ok}	8	2	-1	1	-7	-17	-26	-36

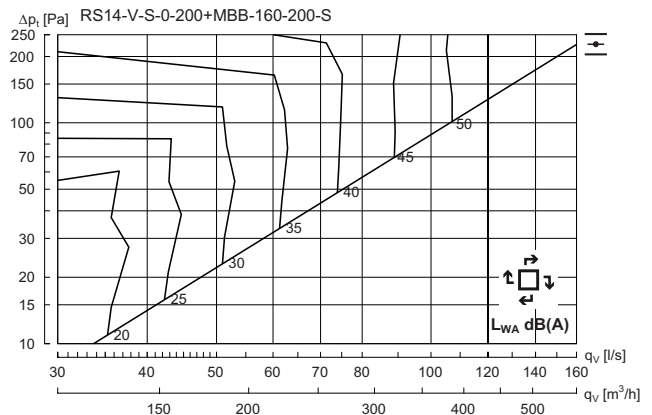
RS14-V 200 + MBB-S - Supply air



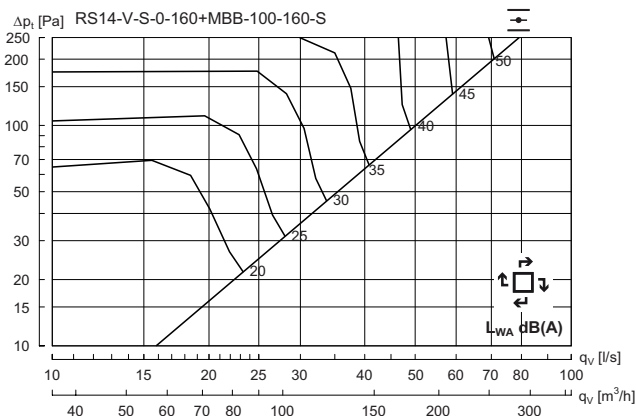
Hz	63	125	250	500	1K	2K	4K	8K
K _{ok}	11	0	-5	0	-4	-15	-26	-36



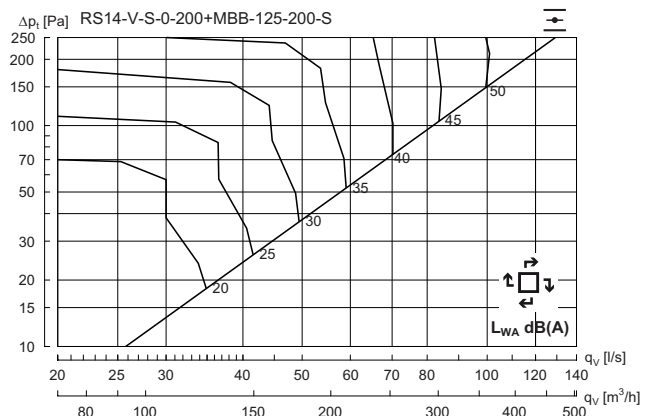
Hz	63	125	250	500	1K	2K	4K	8K
K _{ok}	10	4	-1	1	-7	-17	-24	-29



Hz	63	125	250	500	1K	2K	4K	8K
K _{ok}	11	2	-1	0	-6	-15	-24	-33



Hz	63	125	250	500	1K	2K	4K	8K
K _{ok}	10	4	2	-1	-7	-13	-18	-22



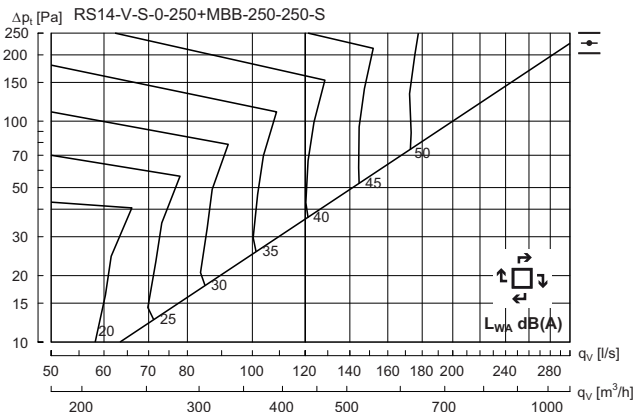
Hz	63	125	250	500	1K	2K	4K	8K
K _{ok}	8	5	1	-1	-7	-13	-17	-22

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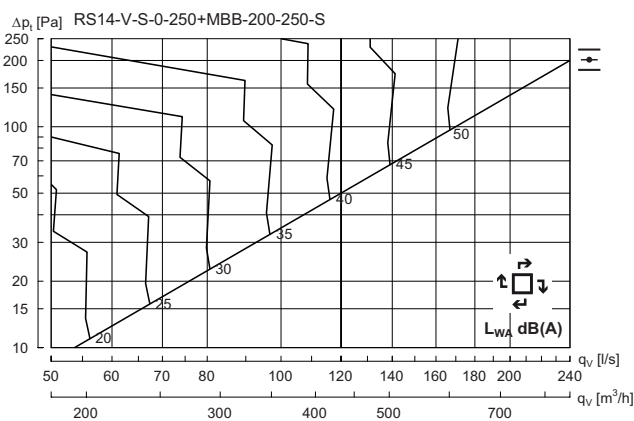
RS14

Technical data

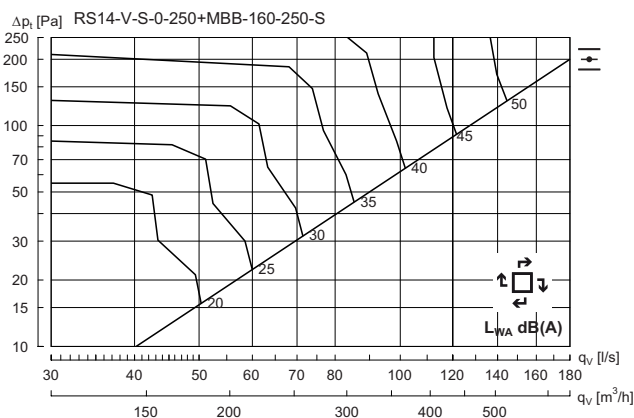
RS14-V 250 + MBB-S - Supply air



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	8	-1	-6	1	-5	-18	-29	-40

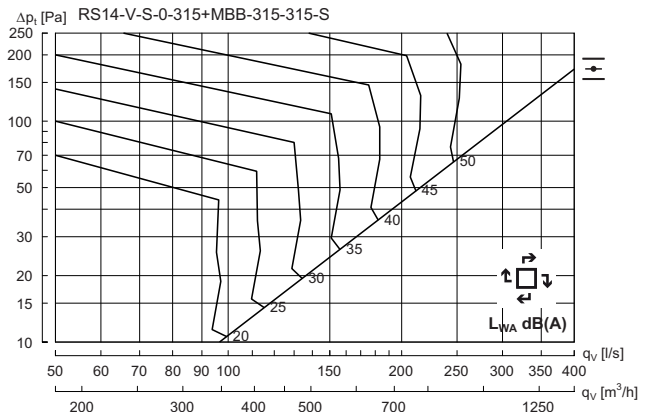


Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	9	2	-3	0	-5	-17	-26	-29

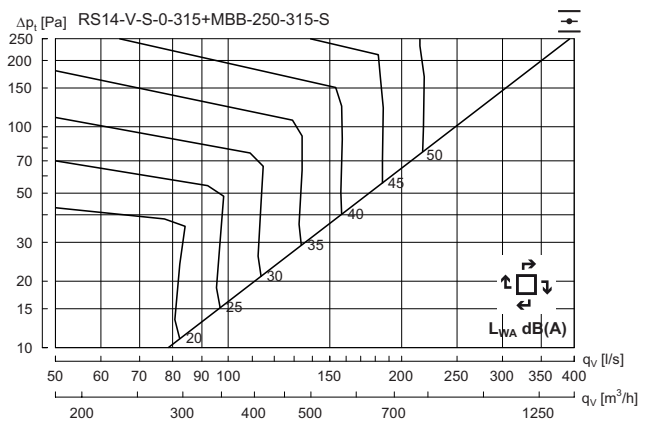


Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	13	5	-1	-1	-5	-14	-20	-26

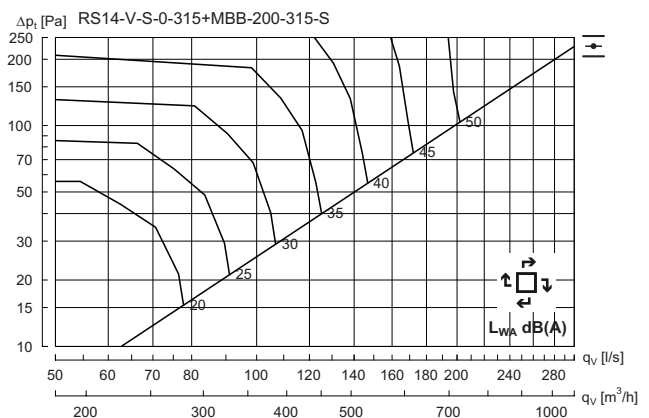
RS14-V 315 + MBB-S - Supply air



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	11	-1	-3	0	-5	-17	-25	-28



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	12	2	-3	0	-5	-15	-22	-30



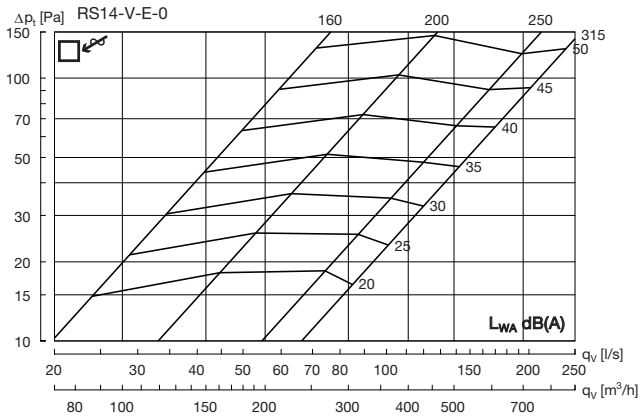
Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	13	4	-1	-1	-6	-14	-19	-25

Versio - Ceiling diffusers

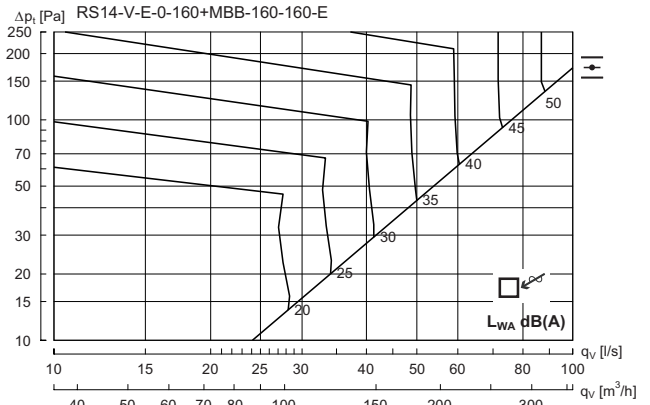
RS14

Technical data

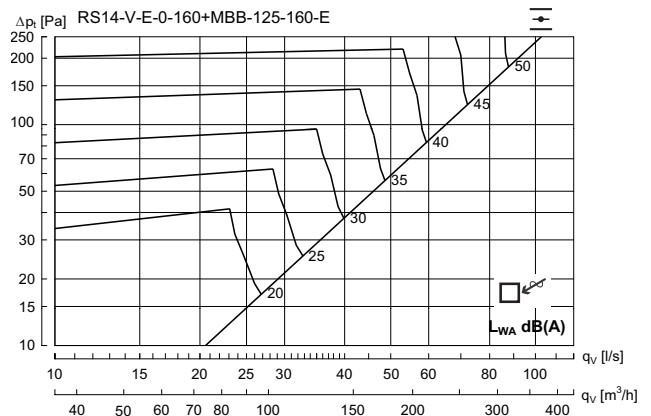
RS14-V without plenum box-Extract air



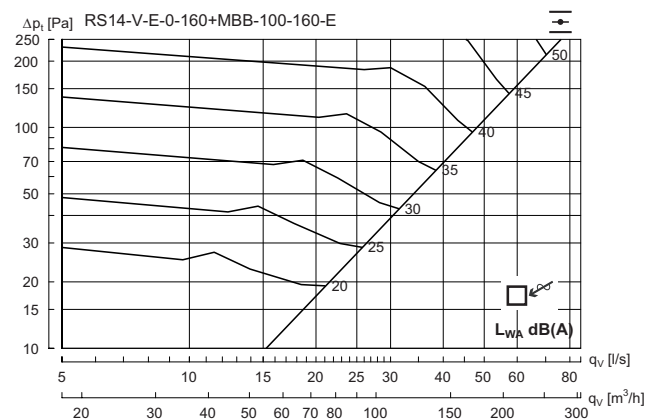
RS14-V 160 + MBB-E - Extract air



Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	12	2	-1	-1	-5	-13	-22	-31



Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	11	4	-1	-1	-5	-13	-19	-27



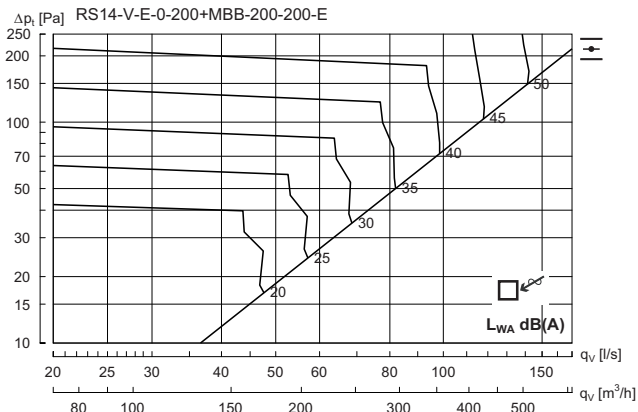
Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	11	4	4	-2	-9	-13	-17	-23

Versio - Ceiling diffusers

RS14

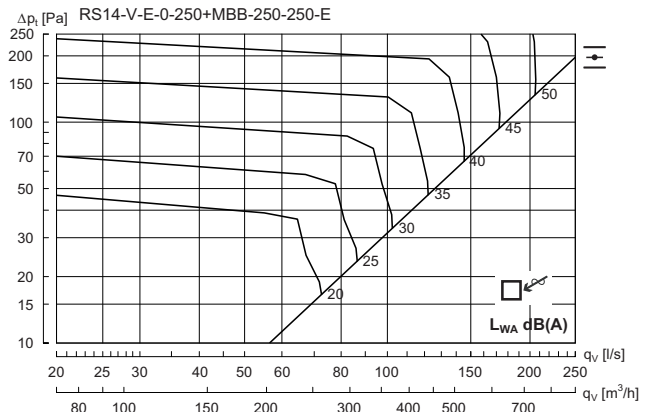
Technical data

RS14-V 200 + MBB-E - Extract air

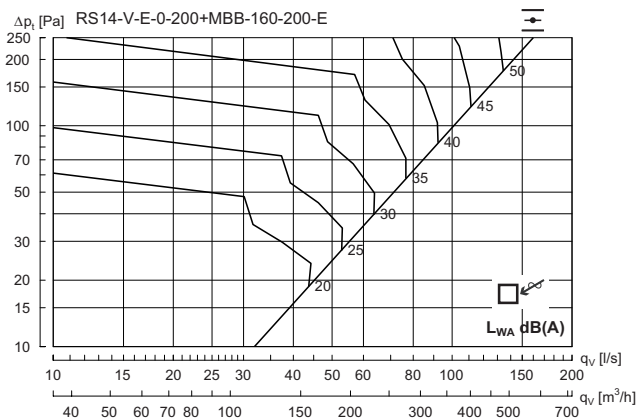


Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	13	4	-1	-1	-5	-12	-20	-28

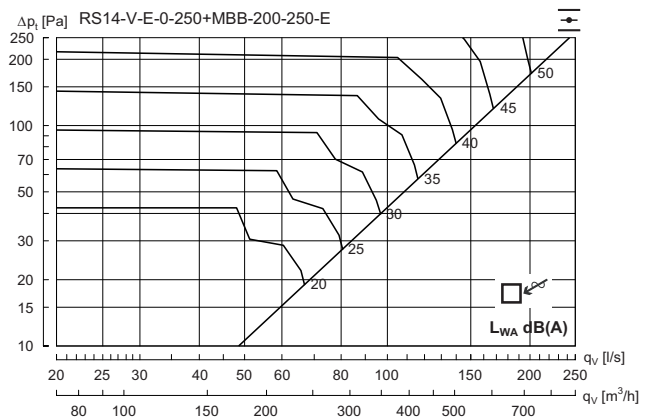
RS14-V 250 + MBB-E - Extract air



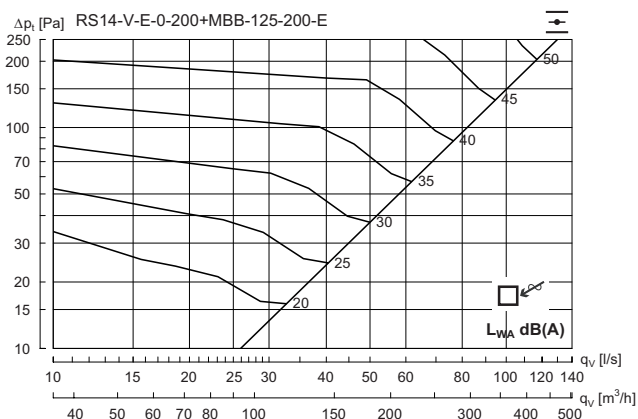
Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	8	5	0	-1	-5	-11	-20	-28



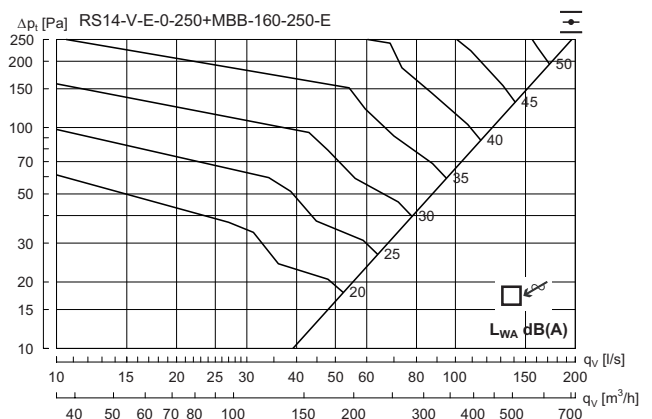
Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	16	6	0	-2	-6	-12	-18	-25



Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	14	5	1	-2	-5	-11	-19	-26



Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	11	4	2	-1	-7	-12	-16	-23



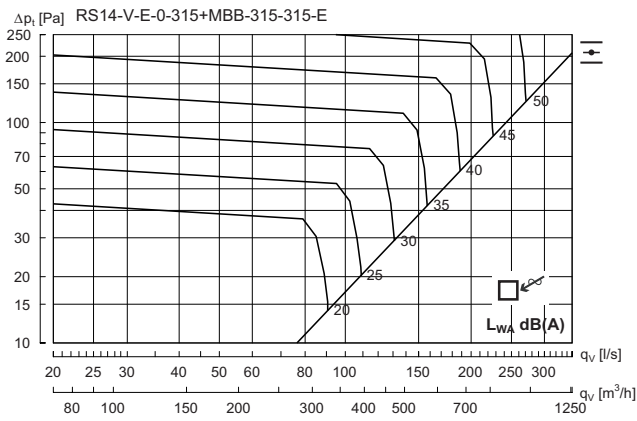
Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	15	7	1	-2	-7	-11	-17	-22

Versio - Ceiling diffusers

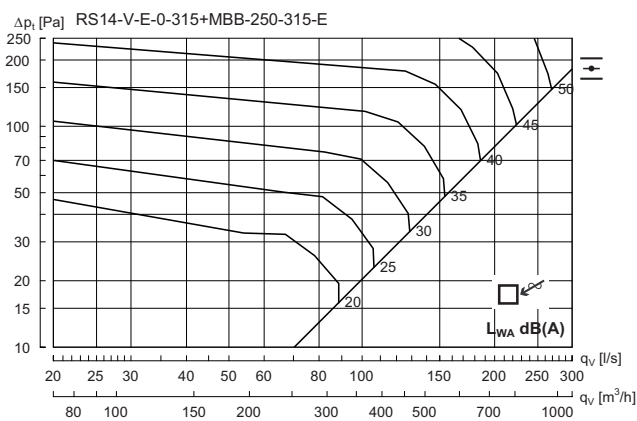
RS14

Technical data

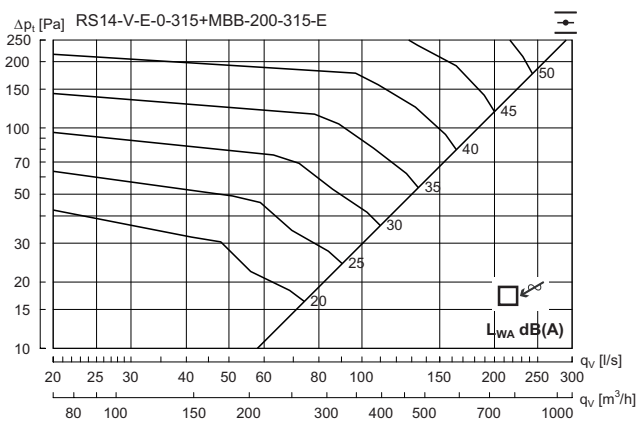
RS14-V 315 + MBB-E - Extract air



Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	11	4	1	-2	-5	-13	-22	-32



Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	10	6	2	-2	-5	-12	-19	-27



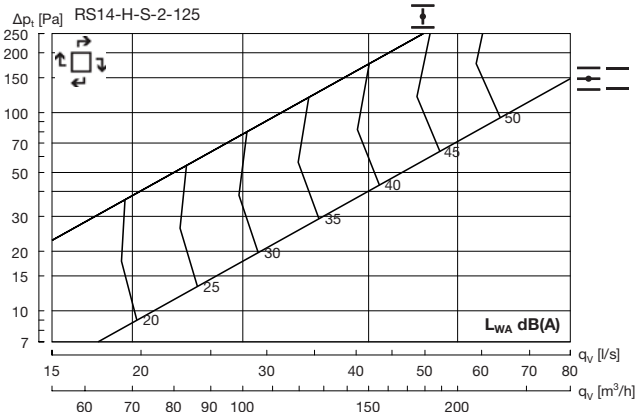
Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	14	5	2	-2	-6	-11	-16	-24

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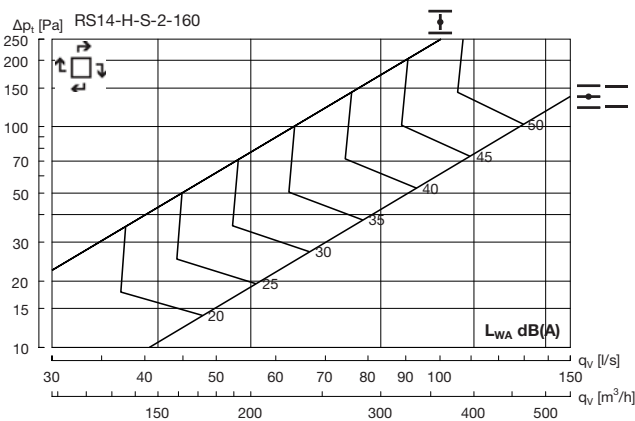
RS14

Technical data

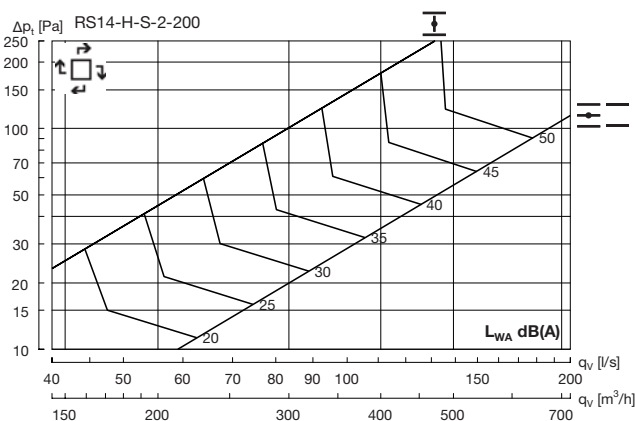
RS14 + H - Supply air



Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	14	8	5	-3	-10	-17	-23	-28

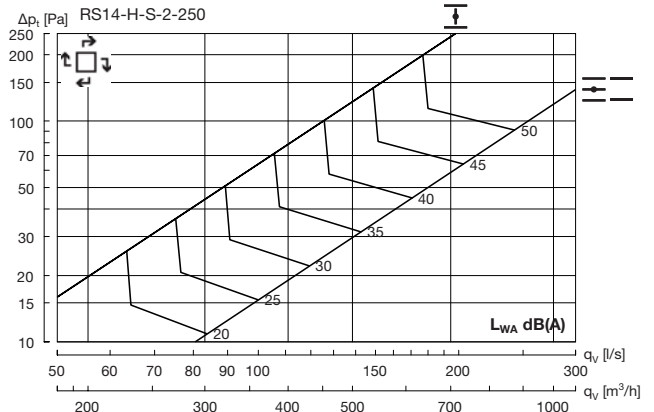


Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	2	5	5	-3	-7	-14	-20	-26

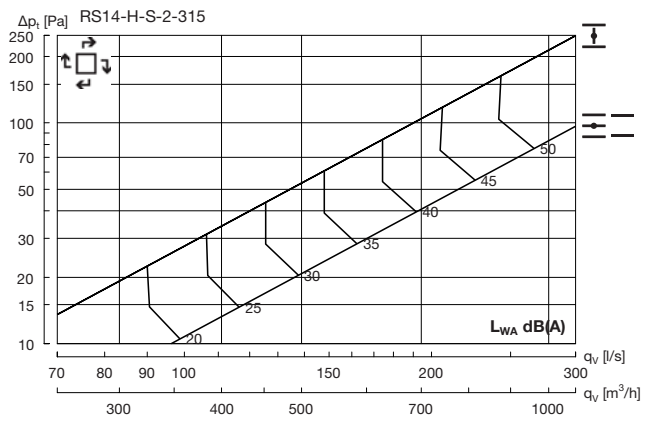


Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	10	7	2	-2	-6	-14	-21	-29

RS14 + H - Supply air



Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	5	7	3	-1	-7	-16	-23	-31



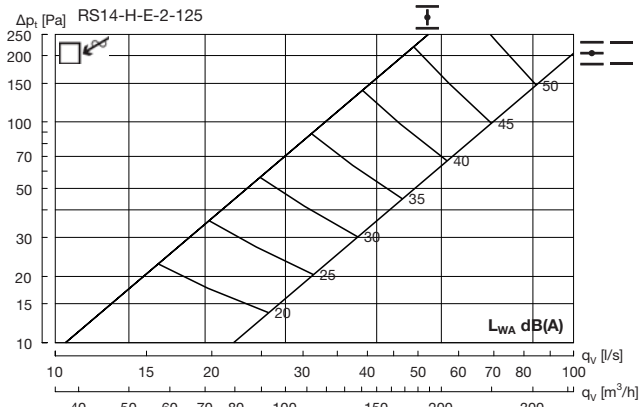
Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	7	7	2	-1	-7	-16	-25	-35

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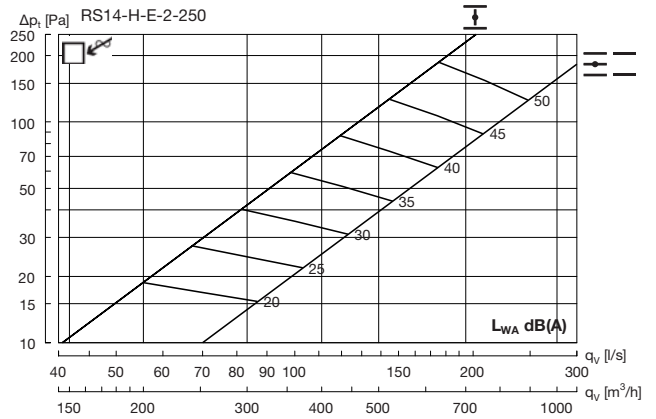
Technical data

RS14 + H - Extract air

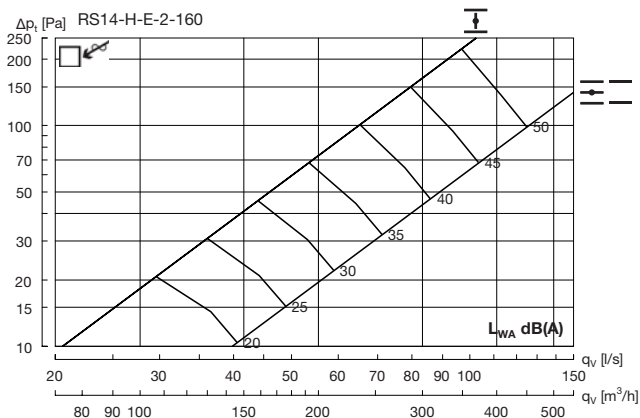


Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	3	7	3	-1	-8	-14	-19	-26

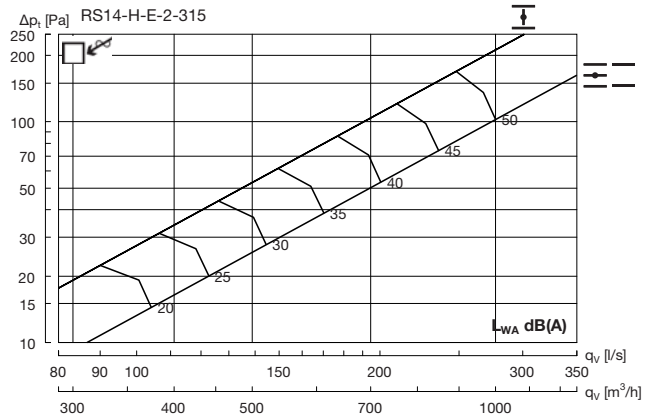
RS14 + H - Extract air



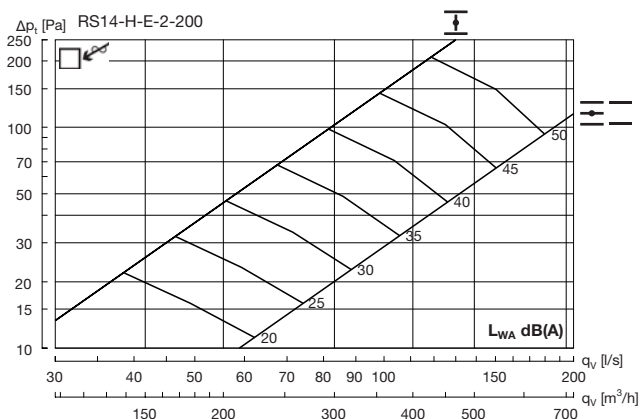
Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	5	7	3	-2	-7	-13	-21	-31



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	2	6	5	-3	-8	-14	-22	-31



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	7	7	2	-2	-6	-14	-24	-35



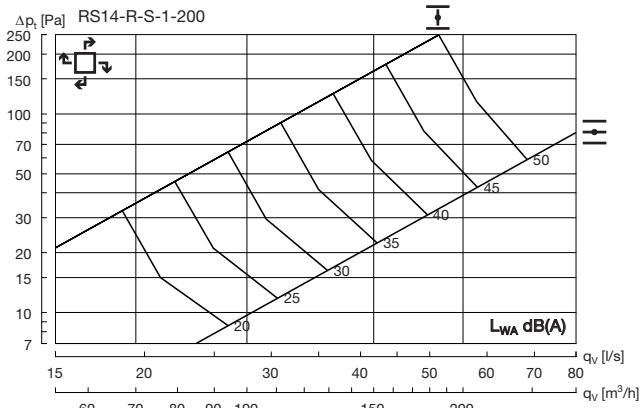
Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	7	7	4	-3	-7	-13	-20	-25

Versio - Ceiling diffusers

RS14

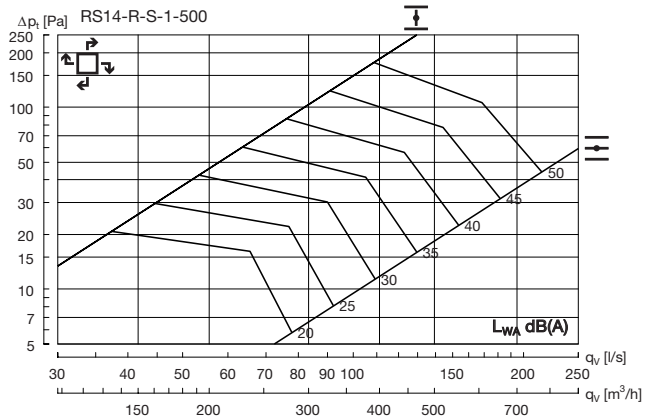
Technical data

RS14 + R - Supply air

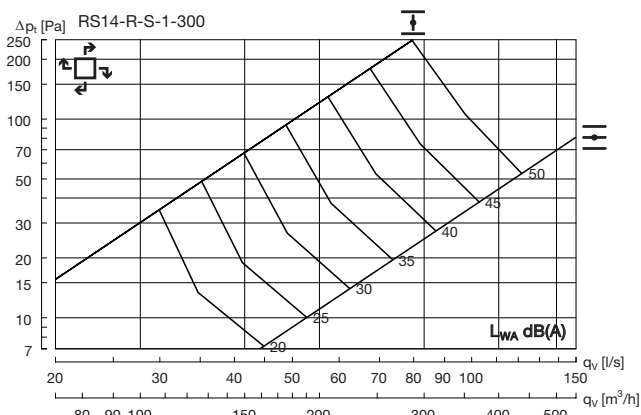


Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	6	-1	3	-1	-7	-12	-25	-33

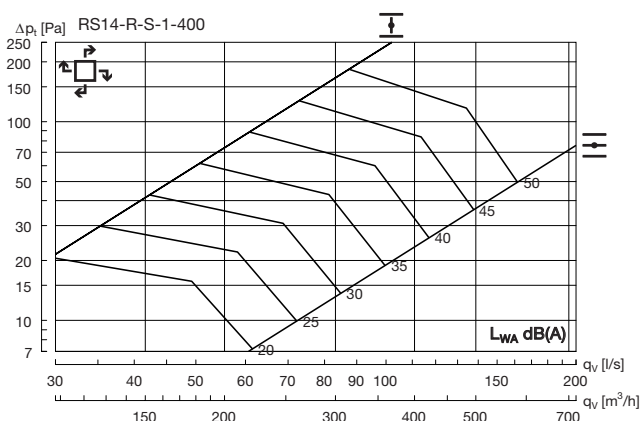
RS14 + R - Supply air



Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	3	-1	3	-1	-7	-11	-19	-31



Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	7	-1	4	-1	-8	-14	-22	-31



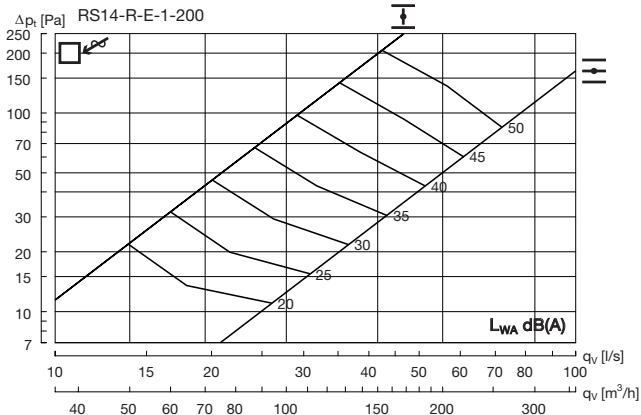
Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	-2	-1	3	-1	-6	-11	-20	-32

Versio - Ceiling diffusers

RS14

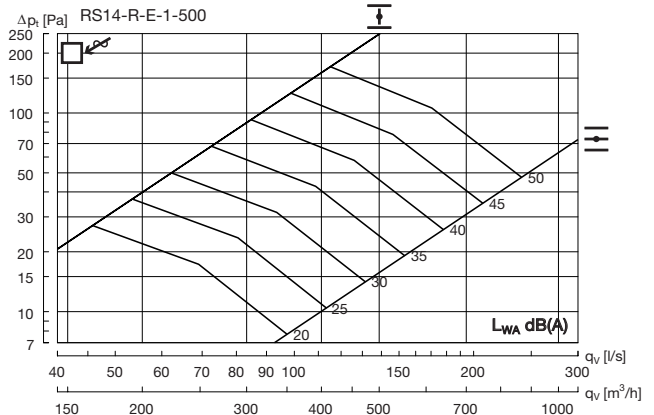
Technical data

RS14 + R - Extract air

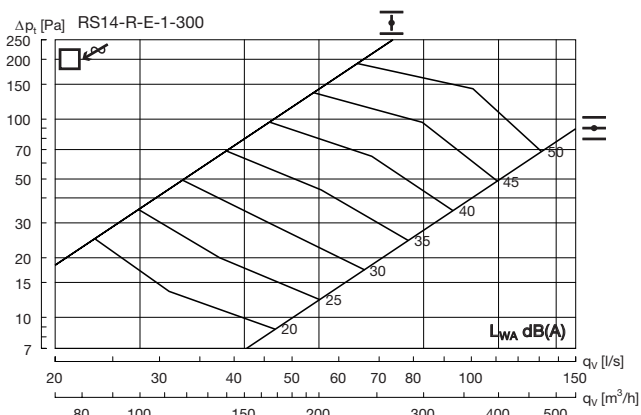


Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	7	-1	4	-2	-8	-10	-18	-25

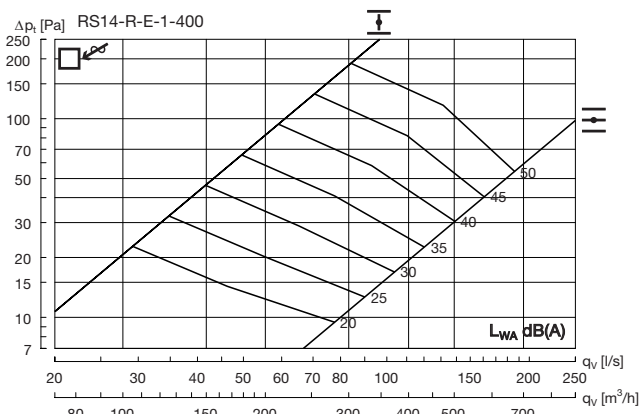
RS14 + R - Extract air



Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	1	1	1	-2	-6	-9	-16	-25



Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	6	1	4	-2	-7	-10	-17	-25



Hz	63	125	250	500	1K	2K	4K	8K
K_{sk}	2	0	2	-2	-5	-10	-16	-24



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](#)