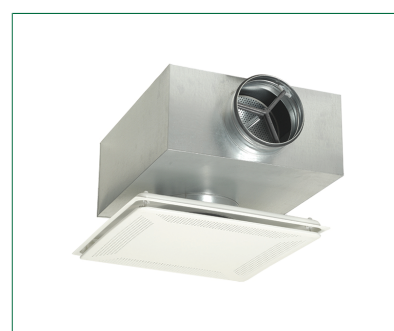
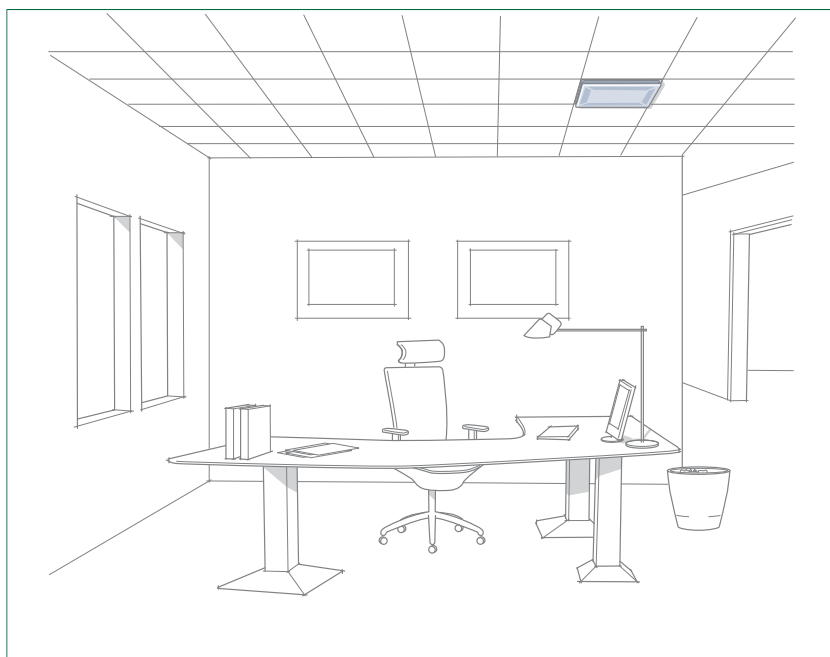


Supply air diffusers RHKH and RHOH + Plenum box ATTS



RHKH and RHOH are quiet, ceiling-mounted supply air diffusers. The diffuser RHKH has a perforated diffuser plate and the diffuser RHOH has an unperforated diffuser plate. The slot height of the diffuser can be set at 20 or 35 mm, with the exception of sizes 125-6, 160-6 and 200-6, for which it is 12 mm. Fixed to the diffuser body with magnets, the diffuser plate is easy to open. RHKH and RHOH supply air diffusers are also available without the plenum box. The RHKH and RHOH diffusers can also be used for exhaust air.

Quick Selection

RHKH, RHOH with 20 mm (or 12 mm*) slot, 1:1 plenum box ATTS (50 Pa)

Diffuser RH(K,O)H-	Connection ATTS		Air flow l/s at sound level		
	inlet mm	outlet mm	25 dB(A)	30 dB(A)	35 dB(A)
125-4	125	125	33	38	43
125-6*	125	125	35	39	47
160-4	160	160	47	55	64
160-6*	160	160	48	57	66
200-4	200	200	66	78	90
200-6*	200	200	65	76	87
250-6	250	250	98	112	128
315-6	315	315	120	143	163

RHKH, RHOH with 20 mm (or 12 mm*) slot, 1:2 plenum box ATTS (50 Pa)

Diffuser RH(K,O)H-	Connection ATTS		Air flow l/s at sound level		
	inlet mm	outlet mm	25 dB(A)	30 dB(A)	35 dB(A)
125-4	100	125	27	36	-
125-6*	100	125	28	36	-
160-4	125	160	38	51	60
160-6*	125	160	35	55	-
200-4	160	200	58	70	84
200-6*	160	200	58	70	85
250-6	200	250	80	102	120
315-6	250	315	110	130	152
400-6	315	400	141	169	197

- = outside working area, 4 = 425x425, 6 = 595x595

Specifications

- Easy to install and adjust
- Low sound level
- Adjustable air slot 12, 20 or 35 mm
- Choice of diffusion directions
- Can also be used as exhaust air diffusers
- 6 connection sizes and 2 diffuser sizes (425x425 or 595x595)
- All connection sizes are suitable for suspended ceiling systems (595x595), false ceiling plate available for size 425x425
- Available with CleanVent coating
- Extremely compact plenum box ATTS
- Also available with the plenum box ATTD

Product code example

Supply air diffuser RHKH-250-6

Plenum box ATTS-200-250-1

AIRTREND Ltd

Predstavništvo u Beogradu

Kumanovska 14, 11000 Beograd

Tel: 011/3836886, 3085740

Faks: 011/3444113

e-mail: gobrid@eunet.rs

web: www.airtrend.rs

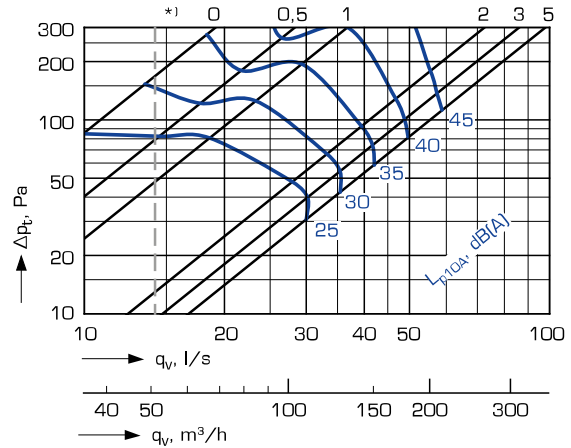
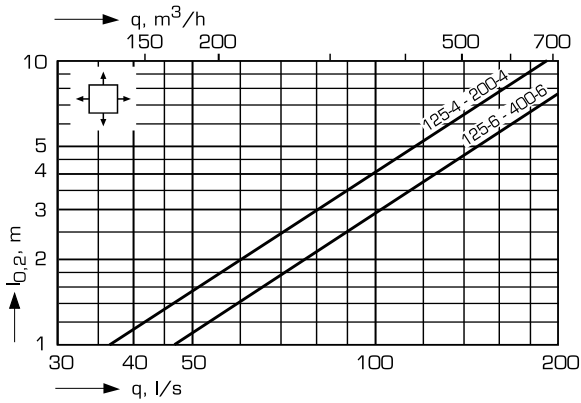
Air flow, throw, pressure drop, sound level - SUPPLY AIR

RHKH, RHOH + ATTS with 20 mm or 12 mm¹⁾ slot, 4-way diffusion

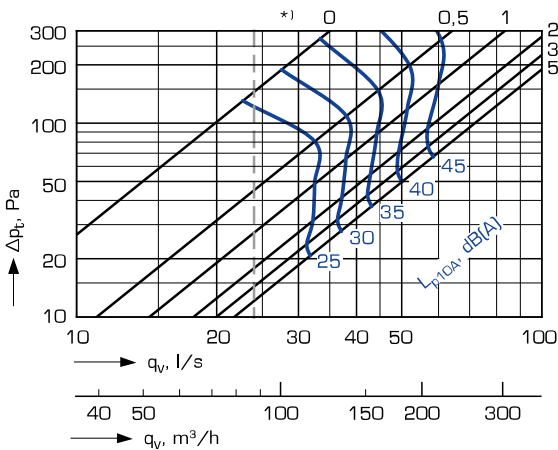
Throw (isothermal)

Sizes in the diagram below refer to air diffuser connection in mm.

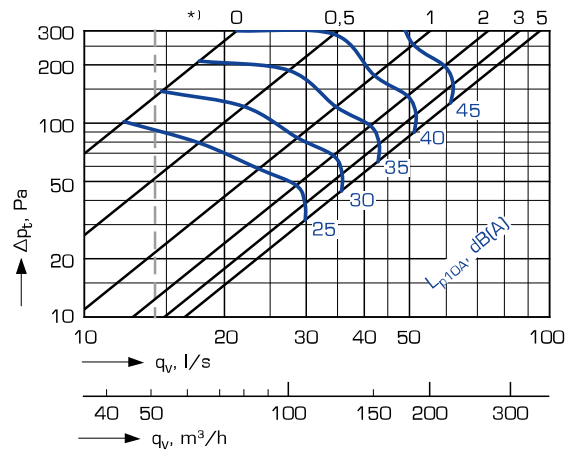
RH(K,O)H-125-4 + ATTS-100-125-1 - with 20 mm slot



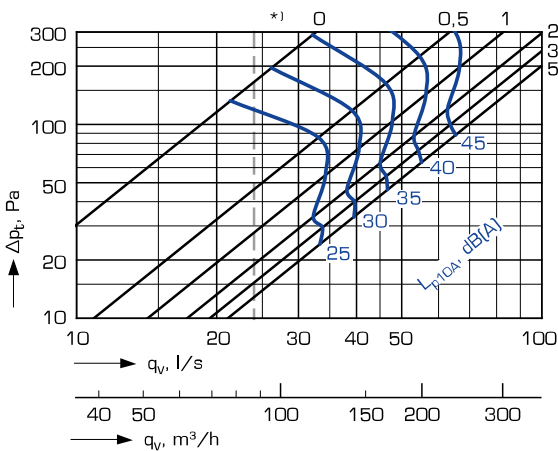
RH(K,O)H-125-4 + ATTS-125-125-1 - with 20 mm slot



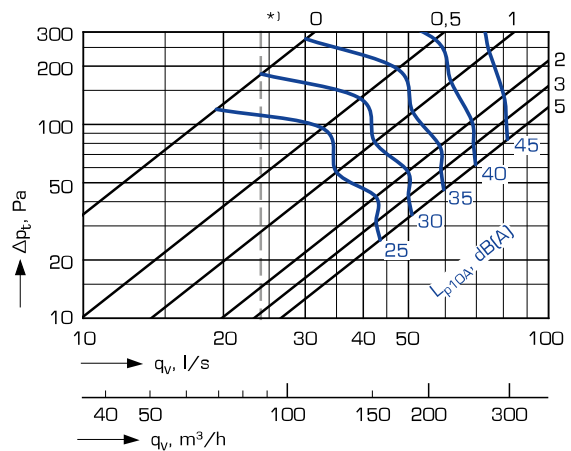
RH(K,O)H-125-6 + ATTS-100-125-1 - with 12 mm slot



RH(K,O)H-125-6 + ATTS-125-125-1 - with 12 mm slot



RH(K,O)H-160-4 + ATTS-125-160-1 - with 20 mm slot



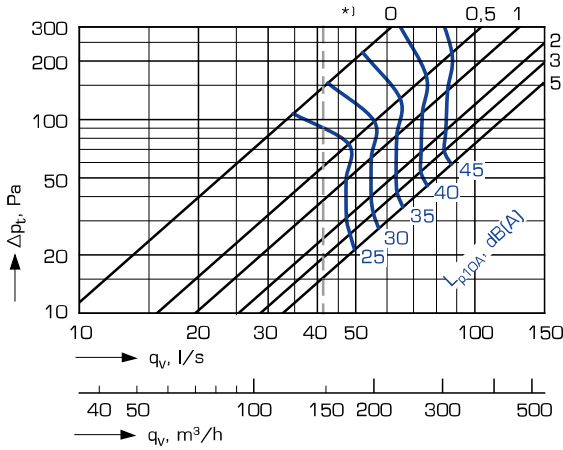
*) adjustment position, ¹⁾ 12 mm slot is not adjustable.

- - - Min. airflow required to obtain sufficient measuring pressure.

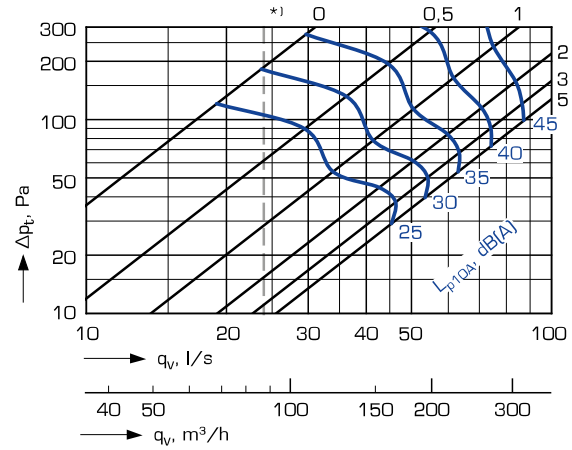
Air flow, pressure drop, sound level - SUPPLY AIR

RHKH, RHOH + ATTS with 20 mm or 12 mm¹⁾ slot, 4-way diffusion

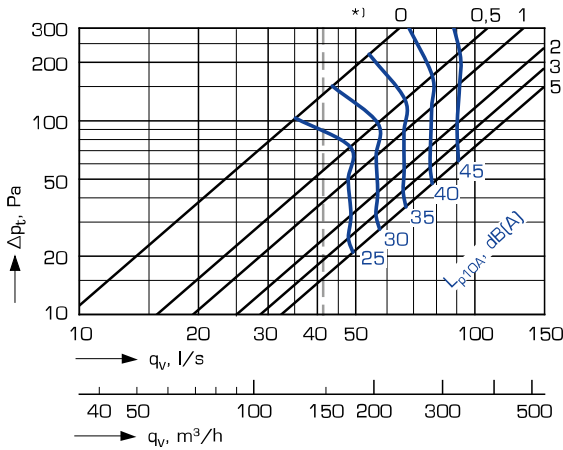
RH(K,O)H-160-4 + ATTS-160-160-1 - with 20 mm slot



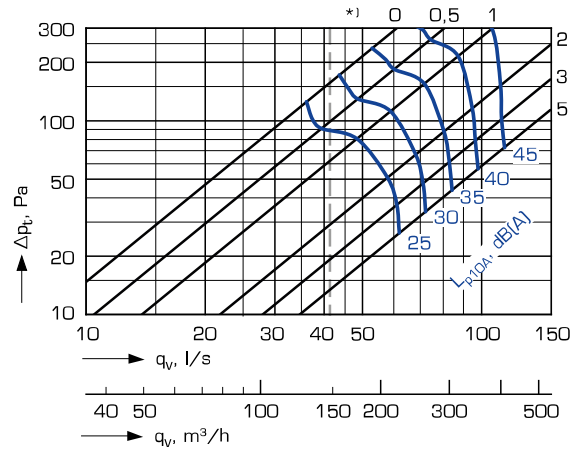
RH(K,O)H-160-6 + ATTS-125-160-1 - with 12 mm slot



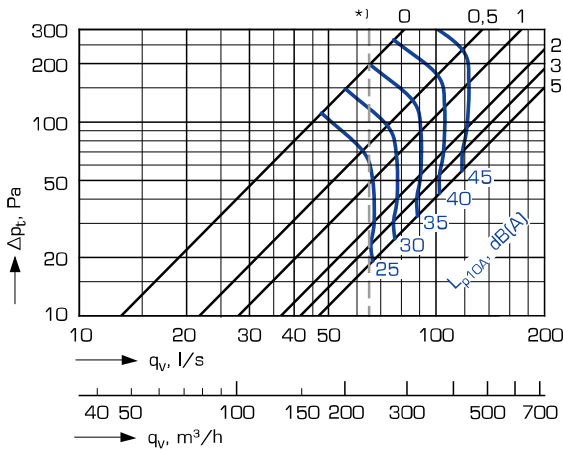
RH(K,O)H-160-6 + ATTS-160-160-1 - with 12 mm slot



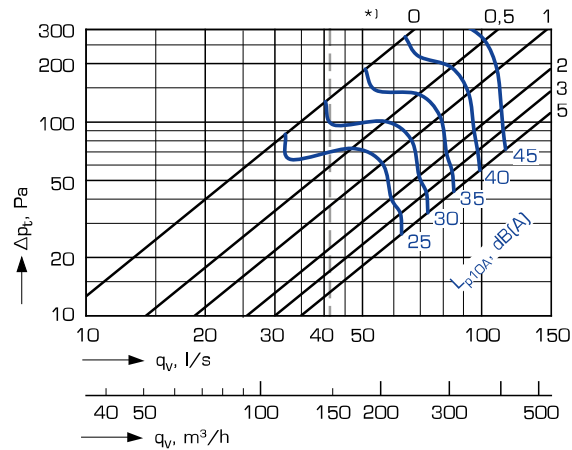
RH(K,O)H-200-4 + ATTS-160-200-1 - with 20 mm slot



RH(K,O)H-200-4 + ATTS-200-200-1 - with 20 mm slot



RH(K,O)H-200-6 + ATTS-160-200-1 - with 12 mm slot



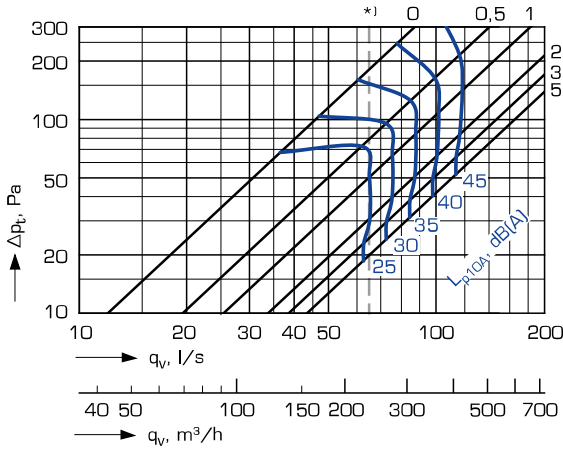
*) adjustment position, ¹⁾ 12 mm slot is not adjustable.

--- Min. airflow required to obtain sufficient measuring pressure.

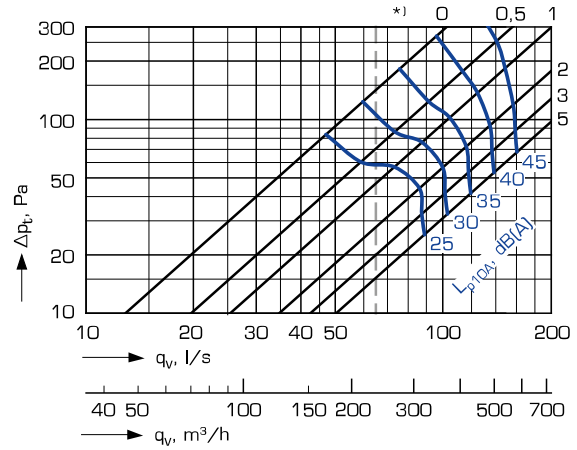
Air flow, pressure drop, sound level - SUPPLY AIR

RHKH, RHOH + ATTS with 20 mm or 12 mm¹⁾ slot, 4-way diffusion

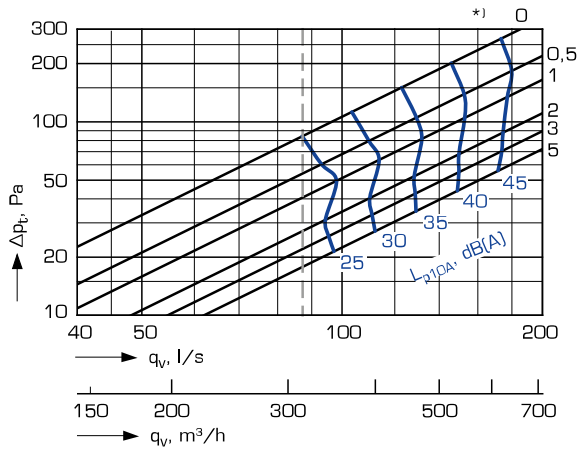
RH(K,O)H-200-6 + ATTS-200-200-1 - with 12 mm slot



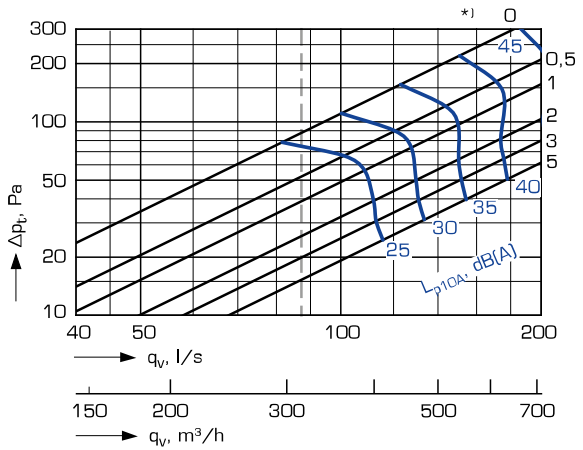
RH(K,O)H-250-6 + ATTS-200-250-1 - with 20 mm slot



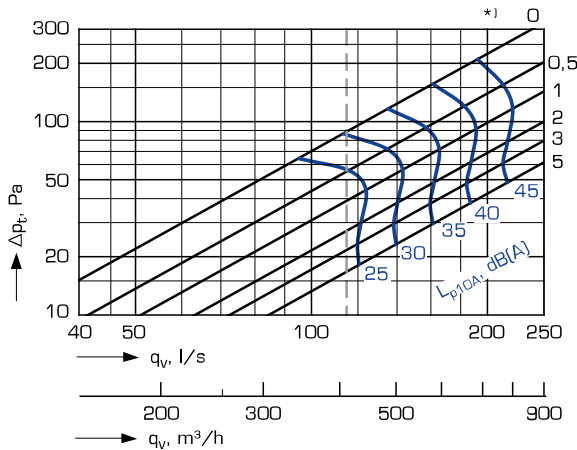
RH(K,O)H-250-6 + ATTS-250-250-1 - with 20 mm slot



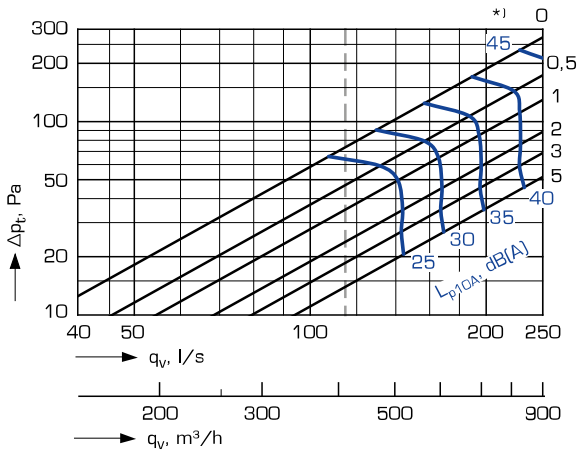
RH(K,O)H-315-6 + ATTS-250-315-1 - with 20 mm slot



RH(K,O)H-315-6 + ATTS-315-315-1 - with 20 mm slot



RH(K,O)H-400-6 + ATTS-315-400-1 - with 20 mm slot



*) adjustment position, ¹⁾ 12 mm slot is not adjustable.

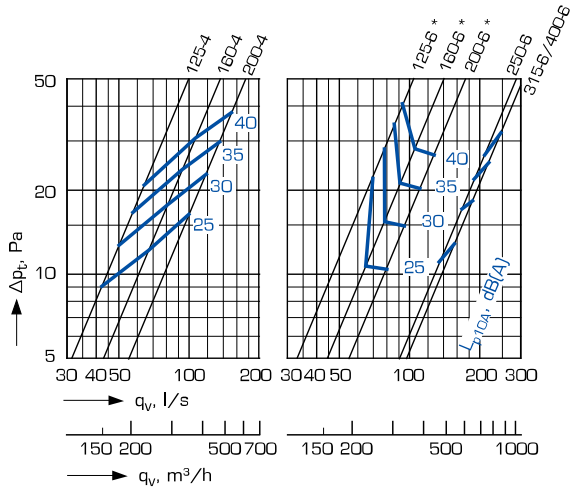
--- Min. airflow required to obtain sufficient measuring pressure.

Air flow, pressure drop, sound level - SUPPLY AIR

Supply air diffuser RHKH, RHOH with 20 mm or 12 mm slot, 4-way diffusion

Supply air diffuser RHKH, RHOH with 20 mm (or 12 mm*) slot

4-way diffusion



Sound power level L_w - SUPPLY AIR

RH(K,O)H + ATTS with 20 mm (or 12 mm*) slot, 1:1 plenum box

Diffuser RH(K,O)H-	Connection ATTS		Correction of sound level K (dB)							
	inlet mm	outlet mm	63	125	250	500	1000	2000	4000	8000
125-4	125	125	6	8	1	4	-1	-11	-19	-19
125-6*	125	125	7	8	2	4	-2	-11	-17	-18
160-4	160	160	1	5	0	4	-1	-9	-19	-19
160-6*	160	160	1	5	1	4	-1	-9	-18	-19
200-4	200	200	3	5	-1	3	1	-7	-18	-18
200-6*	200	200	0	3	-2	4	0	-9	-19	-19
250-6	250	250	4	4	-1	3	1	-8	-19	-19
315-6	315	315	3	3	-2	2	1	-8	-20	-20
Tolerance ±			6	3	2	2	2	2	2	3

RH(K,O)H + ATTS with 20 mm (or 12 mm*) slot, 1:2 plenum box

Diffuser RH(K,O)H-	Connection ATTS		Correction of sound level K (dB)							
	inlet mm	outlet mm	63	125	250	500	1000	2000	4000	8000
125-4	100	125	15	11	5	2	-4	-9	-8	-8
125-6*	100	125	13	10	6	3	-5	-10	-10	-11
160-4	125	160	8	7	4	3	-2	-9	-14	-16
160-6*	125	160	7	7	4	4	-2	-8	-13	-15
200-4	160	200	6	4	2	2	0	-6	-13	-15
200-6*	160	200	6	5	2	3	-1	-8	-16	-17
250-6	200	250	5	4	1	2	1	-8	-16	-17
315-6	250	315	4	5	1	2	1	-7	-16	-18
400-6	315	400	4	5	1	2	1	-8	-18	-19
Tolerance ±			6	3	2	2	2	2	2	3

Supply air diffuser RH(K,O)H with 20 mm (or 12 mm*) slot

RH(K,O)H-	Correction of sound level K (dB)							
	63	125	250	500	1000	2000	4000	8000
125-4	9	-1	1	4	-2	-12	-13	-8
125-6*	8	-1	3	4	-3	-14	-14	-8
160-4	10	6	4	3	-1	-11	-14	-8
160-6*	6	1	3	4	-2	-13	-15	-8
200-4	9	5	4	2	0	-11	-15	-8
200-6*	4	2	2	4	-2	-12	-14	-8
250-6	14	9	4	3	-3	-11	-14	-8
315-6	10	5	4	4	-2	-13	-15	-8
400-6	8	3	5	3	-2	-14	-14	-8
Tolerance ±		6	3	2	2	2	2	3

Sound power levels by octave bands are obtained by adding to total sound pressure level L_{p10A}, dB(A), the correction K_{oct} presented in the table according to the following formula:

$$L_w = L_{p10A} + K_{oct}$$

Correction K_{oct} is average value in range of use of the device.

Sound attenuation ΔL - SUPPLY AIR

RH(K,O)H + ATTS with 20 mm (or 12 mm*) slot, 1:1 plenum box

Diffuser RH(K,O)H-	Connection ATTS		Sound attenuation (dB)							
	inlet mm	outlet mm	63	125	250	500	1000	2000	4000	8000
125-4	125	125	24	13	11	17	15	15	11	16
125-6*	125	125	24	9	9	17	15	15	11	14
160-4	160	160	20	11	12	16	13	12	9	14
160-6*	160	160	21	12	11	14	11	11	10	14
200-4	200	200	18	8	11	15	11	9	12	14
200-6*	200	200	19	8	10	16	10	8	12	15
250-6	250	250	12	5	8	10	10	10	11	11
315-6	315	315	10	5	9	7	7	10	9	12
Tolerance \pm			6	3	2	2	2	2	2	3

RH(K,O)H + ATTS with 20 mm (or 12 mm*) slot, 1:2 plenum box

Diffuser RH(K,O)H-	Connection ATTS		Sound attenuation (dB)							
	inlet mm	outlet mm	63	125	250	500	1000	2000	4000	8000
125-4	100	125	23	13	11	12	15	11	11	13
125-6*	100	125	24	14	12	13	13	9	12	13
160-4	125	160	23	13	9	13	15	13	8	13
160-6*	125	160	22	13	8	13	15	12	8	13
200-4	160	200	24	10	7	14	12	9	10	11
200-6*	160	200	22	11	8	13	10	7	11	11
250-6	200	250	17	6	8	13	8	7	10	12
315-6	250	315	12	7	6	8	8	8	10	10
400-6	315	400	11	5	6	6	6	8	8	11
Tolerance \pm			6	3	2	2	2	2	2	3

Supply air diffuser RH(K,O)H with 20 mm (or 12 mm*) slot

RH(K,O)H-	Sound attenuation (dB)								
	63	125	250	500	1000	2000	4000	8000	
125-4	20	15	6	7	6	4	4	5	
125-6*	20	13	3	8	2	3	3	5	
160-4	18	11	5	6	6	2	4	6	
160-6*	17	11	3	6	2	2	5	5	
200-4	16	11	5	6	4	3	5	5	
200-6*	16	10	4	5	2	3	4	6	
250-6	14	7	3	3	2	3	5	5	
315-6	12	7	4	3	3	4	6	5	
400-6	11	7	4	1	3	3	5	6	
Tolerance \pm	6	3	2	2	2	2	2	3	

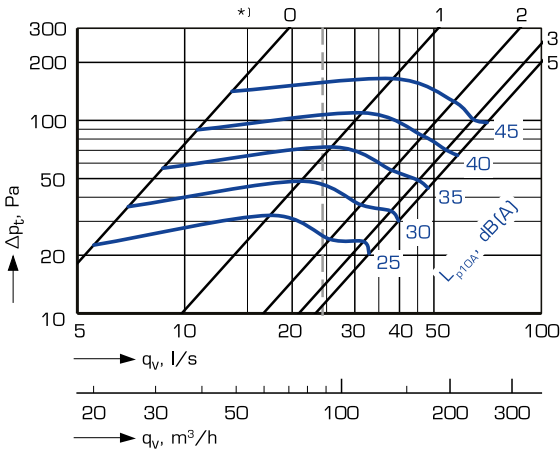
The average sound attenuation ΔL from duct to room including the orifice attenuation of the connecting duct in ceiling installation, is obtained in the table above.

More technical data can be found in our selection tool. Contact our nearest sales office for further information.

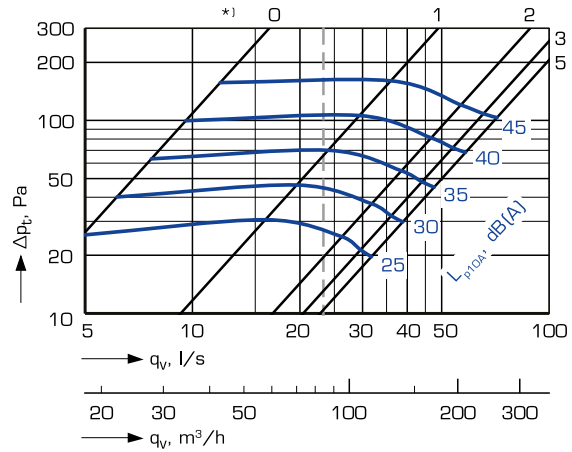
Air flow, pressure drop, sound level - EXHAUST AIR

Exhaust air diffuser RHKH, RHOH + ATTS with 20 mm or 12 mm¹⁾ slot

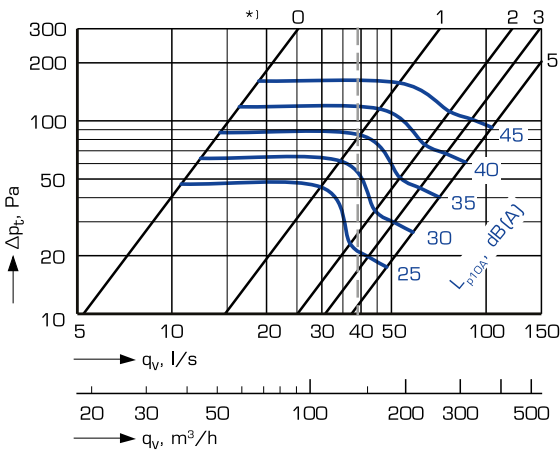
RH(K,O)H-125-4 + ATTS-100-125-1 - with 20 mm slot



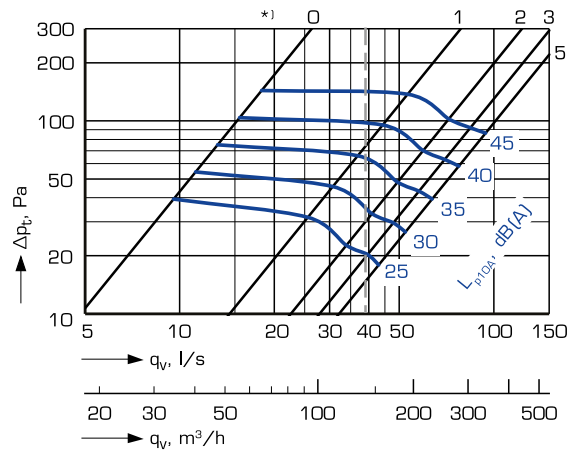
RH(K,O)H-125-6 + ATTS-100-125-1 - with 12 mm slot



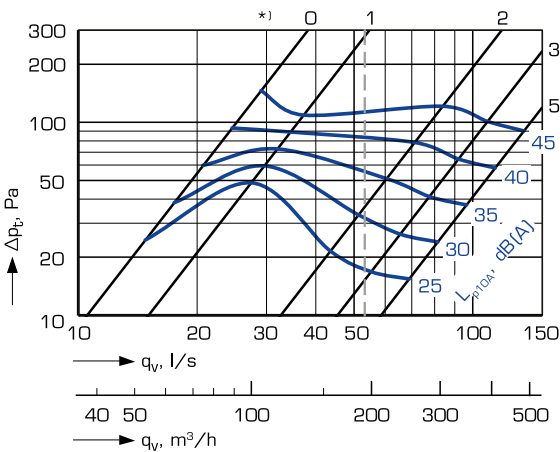
RH(K,O)H-160-4 + ATTS-125-160-1 - with 20 mm slot



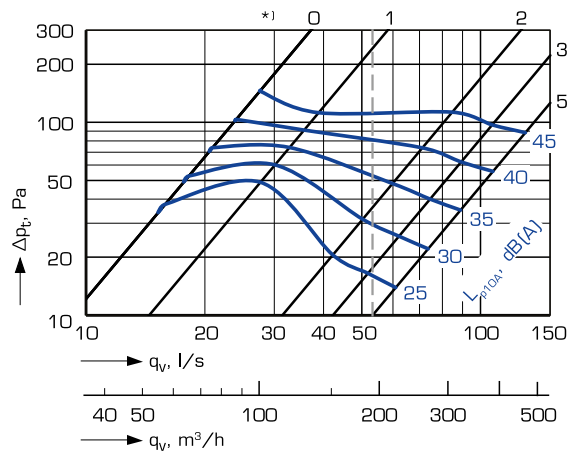
RH(K,O)H-160-6 + ATTS-125-160-1 - with 12 mm slot



RH(K,O)H-200-4 + ATTS-160-200-1 - with 20 mm slot



RH(K,O)H-200-6 + ATTS-160-200-1 - with 12 mm slot



*) adjustment position

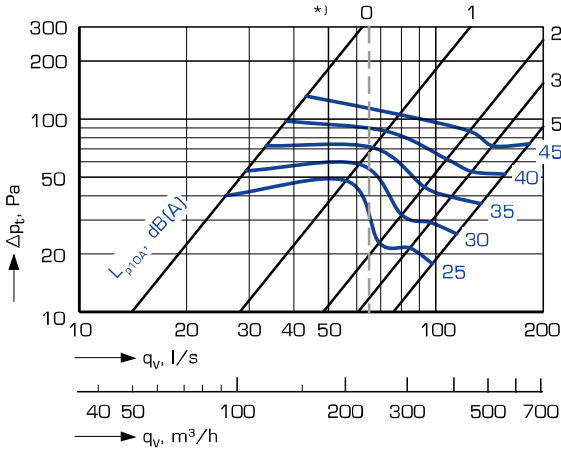
- - - Min. airflow required to obtain sufficient measuring pressure.

1) 12 mm slot is not adjustable.

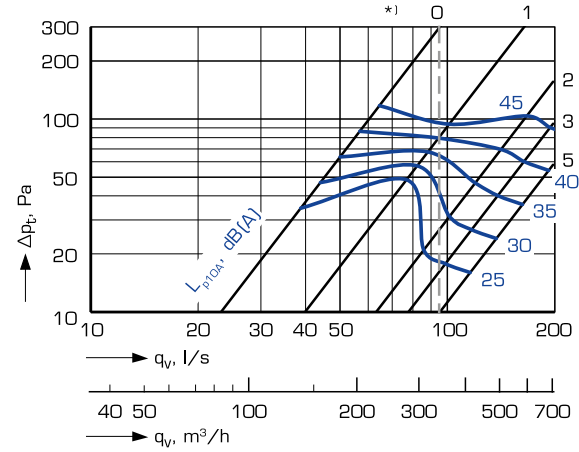
Air flow, pressure drop, sound level - EXHAUST AIR

Exhaust air diffuser RHKH, RHOH + ATTS with 20 mm slot

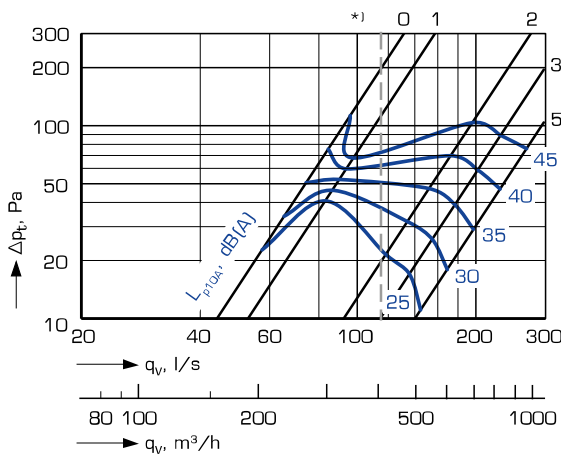
RH(K,O)H-250-6 + ATTS-200-250-1 - with 20 mm slot



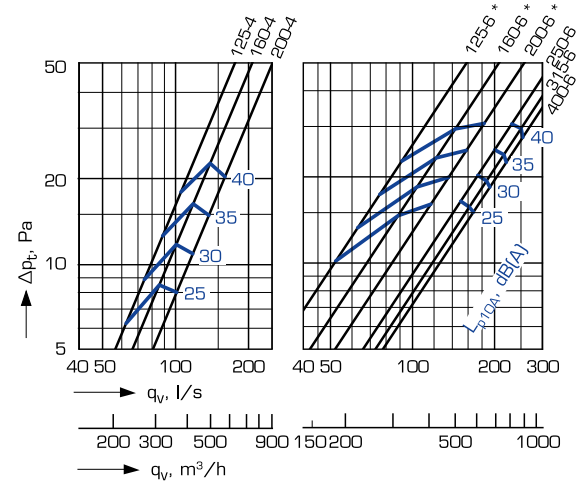
RH(K,O)H-315-6 + ATTS-250-315-1 - with 20 mm slot



RH(K,O)H-400-6 + ATTS-315-400-1 - with 20 mm slot



Exhaust air diffuser RHKH, RHOH with 20 mm (or 12 mm*) slot



*) adjustment position

- - - Min. airflow required to obtain sufficient measuring pressure.

Sound power level L_w - EXHAUST AIR

Exhaust air diffuser RH(K,O)H + ATTS with 20 mm (or 12 mm*) slot, 1:2 plenum box

Diffuser RH(K,O)H-	Connection ATTS		Correction of sound level K (dB)							
	inlet mm	outlet mm	63	125	250	500	1000	2000	4000	8000
125-4	100	125	10	7	4	3	-3	-7	-11	-15
125-6*	100	125	10	5	4	4	-3	-6	-11	-15
160-4	125	160	9	5	3	2	-3	-3	-10	-18
160-6*	125	160	9	5	3	2	-4	-2	-11	-18
200-4	160	200	5	2	1	0	-3	0	-10	-19
200-6*	160	200	6	2	-2	0	-4	0	-9	-19
250-6	200	250	5	2	-1	-4	-4	1	-11	-19
315-6	250	315	6	4	-2	-3	-1	0	-12	-20
400-6	315	400	6	1	-4	-2	0	-1	-14	-20
Tolerance ±			6	3	2	2	2	2	2	3

Exhaust air diffuser RH(K,O)H with 20 mm (or 12 mm*) slot

RH(K,O)H-	Correction of sound level K (dB)							
	63	125	250	500	1000	2000	4000	8000
125-4	4	2	5	3	-1	-9	-15	-20
125-6*	0	1	5	4	-1	-10	-15	-19
160-4	4	4	3	2	1	-7	-15	-20
160-6*	6	1	5	3	-1	-8	-16	-19
200-4	7	1	0	-2	2	-6	-19	-21
200-6*	8	3	2	-1	2	-6	-16	-20
250-6	2	2	-2	0	2	-6	-20	-21
315-6	0	-5	-7	-1	2	-6	-21	-21
400-6	1	-7	-7	-2	2	-5	-19	-20
Tolerance ±	6	3	2	2	2	2	2	3

Sound power levels by octave bands are obtained by adding to total sound pressure level L_{p10A}, dB(A), the correction K_{oct} presented in the table according to the following formula:

$$L_w = L_{p10A} + K_{oct}$$

Correction K_{oct} is average value in range of use of the device.

Sound attenuation ΔL - EXHAUST AIR

Exhaust air diffuser RH(K,O)H + ATTS with 20 mm (or 12 mm*) slot, 1:2 plenum box

Diffuser RH(K,O)H-	Connection ATTS		Sound attenuation (dB)							
	inlet mm	outlet mm	63	125	250	500	1000	2000	4000	8000
125-4	100	125	23	13	11	12	15	11	11	13
125-6*	100	125	24	14	12	13	13	9	12	13
160-4	125	160	23	13	9	13	15	13	8	13
160-6*	125	160	22	13	8	13	15	12	8	13
200-4	160	200	24	10	7	14	12	9	10	11
200-6*	160	200	22	11	8	13	10	7	11	11
250-6	200	250	17	6	8	13	8	7	10	12
315-6	250	315	12	7	6	8	8	8	10	10
400-6	315	400	11	5	6	6	6	8	8	11
Tolerance \pm			6	3	2	2	2	2	2	3

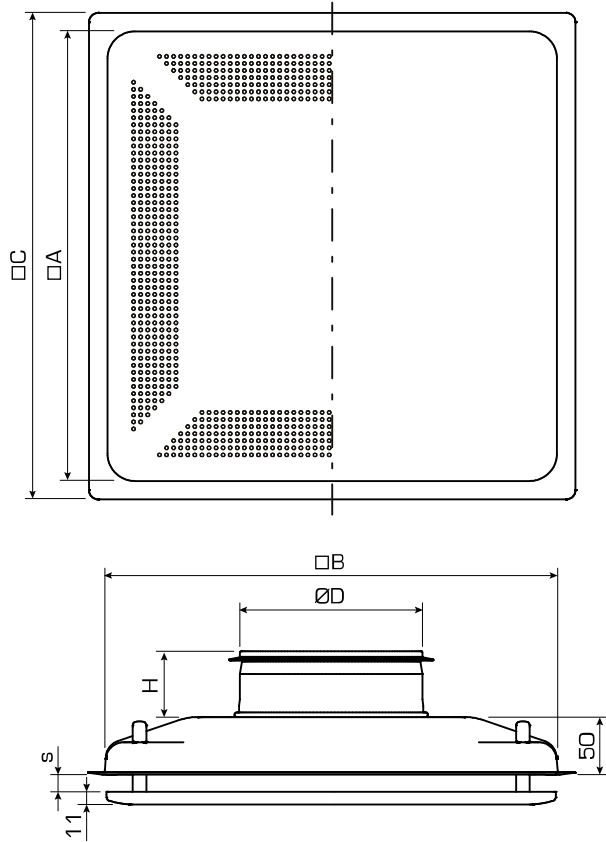
Exhaust air diffuser RH(K,O)H with 20 mm (or 12 mm*) slot

RH(K,O)H-	Sound attenuation (dB)							
	63	125	250	500	1000	2000	4000	8000
125-4	20	15	6	7	6	4	4	5
125-6*	20	13	3	8	2	3	3	5
160-4	18	11	5	6	6	2	4	6
160-6*	17	11	3	6	2	2	5	5
200-4	16	11	5	6	4	3	5	5
200-6*	16	10	4	5	2	3	4	6
250-6	14	7	3	3	2	3	5	5
315-6	12	7	4	3	3	4	6	5
400-6	11	7	4	1	3	3	5	6
Tolerance \pm		6	3	2	2	2	2	3

The average sound attenuation ΔL from duct to room including the orifice attenuation of the connecting duct in ceiling installation, is obtained in the table above.

Dimensions and weights

Supply air diffuser RHKH, RHOH

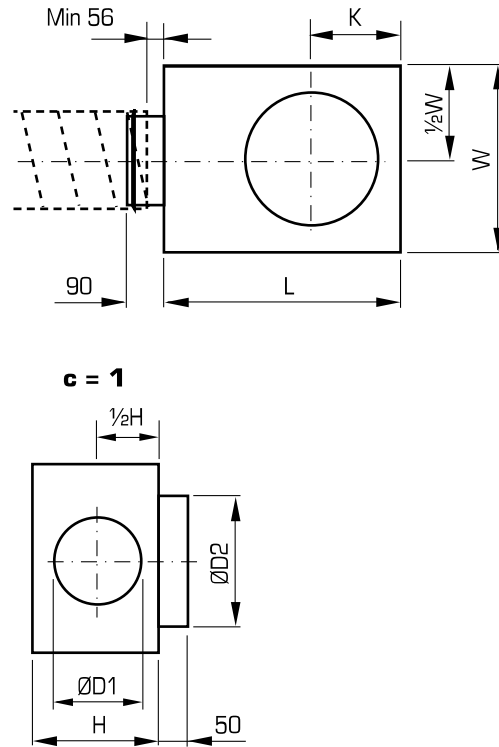


Size	A [mm]	B [mm]	C [mm]	ØD [mm]	H [mm]	Opening [mm]	Weight [kg]
125-4	395	399	425	124.3	58	410	2.3
125-6	565	569	595	124.3	58	580	4.5
160-4	395	399	425	159.3	58	410	2.3
160-6	565	569	595	159.3	58	580	4.5
200-4	395	399	425	199.3	58	410	2.1
200-6	565	569	595	199.3	58	580	4.5
250-6	565	569	595	249.3	58	580	4.4
315-6	565	569	595	314.3	58	580	4.3
400-6	565	569	595	393.3	66	580	4.3

Possible slot alternatives

Size	s [mm]		
	12	20	35
125-4		x	x
125-6	x		
160-4		x	x
160-6	x		
200-4		x	x
200-6	x		
250-6		x	x
315-6		x	x
400-6		x	x

Plenum box ATTS



Size	ØD1 [mm]	ØD2 [mm]	H [mm]	L [mm]	W [mm]	K [mm]	Weight [kg]
100-125	99.3	125	170	300	220	115	1.6
125-125	124.3	125	170	340	300	133	2.1
125-160	124.3	160	170	340	300	133	2.1
160-160	159.3	160	195	380	340	153	2.7
160-200	159.3	200	195	380	340	153	2.6
200-200	199.3	200	235	480	380	178	3.7
200-250	199.3	250	235	480	380	178	3.6
250-250	249.3	250	285	530	380	211	4.3
250-315	249.3	315	285	530	380	211	4.2
315-315	314.3	315	335	530	480	253	5.5
315-400	314.3	400	335	530	480	253	5.4

RH(K,O)H + ATTS



RH(K,O)H	Gmin [mm]		Gmax [mm]	
	1:1 ATTS	1:2 ATTS	1:1 ATTS	1:2 ATTS
125-4	270	270	300	300
125-6	270	270	300	300
160-4	295	270	325	300
160-6	295	270	325	300
200-4	335	295	365	325
200-6	335	295	365	325
250-6	385	335	415	365
315-6	435	385	465	415
400-6	-	435	-	465

Execution and function

The RHKH and RHOH are quiet, ceiling-mounted supply air diffusers. The diffuser RHKH has a perforated diffuser plate and the diffuser RHOH has an unperforated diffuser plate. The slot height of the diffuser can be set at 20 or 35 mm, with the exception of sizes 125-6, 160-6 and 200-6, for which it is 12 mm. Fixed to the diffuser body with magnets, the diffuser plate is easy to open. The RHKH and RHOH supply air diffusers are also available without the plenum box. These supply air diffusers are suitable for both suspended ceiling systems and false ceilings built on site. The diffusers can also be used for exhaust air.

The ATTS plenum box features an extremely quiet patented measurement and adjustment damper for multipoint measuring with balanced and accurate values. The adjustment handle of the measurement and adjustment damper has a position indicator and a locking device. The measurement and adjustment damper can be easily removed for inspection and cleaning without changing the setting. The diffuser connection collar is outwards in the plenum box. The ATTS plenum box is applicable for supply and exhaust air alike. In exhaust air use, the position of the measuring hose is changed to the measuring connector inside the box.

General

Material and surface finish

Both the diffuser and the plenum box are made from steel sheet.

The diffuser is powder-coated for a high surface finish.

The standard colour is RAL 9010. Other diffuser colours and CleanVent coating are available on special order.

Installation, adjustment and maintenance

The instructions for installation, adjustment and maintenance are available at www.flaktgroup.com. The k-factors for supply air are also provided on the plenum box.

Technical data and design

For complete design details, please see the FläktGroup product selection program. The program can be found on the Internet at www.flaktgroup.com.

Product description

The square supply air diffuser, RHKH/RHOH by FläktGroup with a plenum box, ATTS. The slot of the diffuser can be set at 12, 20 or 35 mm. The diffuser plate, fixed to the diffuser body with magnets, is easy to open. The ATTS plenum box includes a quiet, easily removable measurement and adjustment damper (ZAEF).

Product code

Supply air diffuser	RH(K,O)H-aaa-b
Supply air diffuser, CleanVent	RH(K,O)H-aaa-b-C
Supply air diffuser, special colour	RH(K,O)H-aaa-b-E

Execution

K = perforated air diffuser

O = unperforated air diffuser

Size (aaa)

125, 160, 200, 250, 315, 400 (diffuser connection)

Body size (b)

4 = 425 x 425

6 = 595 x 595

CleanVent coated (C)

Specail colour (E)

Plenum box	ATTS-aaa-bbb-c
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Duct connection in mm (aaa)

Diffuser connection in mm (bbb)

Type (c)

1 = collar outwards

Accessories

Strip for setting the diffusion pattern (kit, 3 pieces)	RHSZ-03
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Length 3 x 370 mm

(Two size-adapted strips are always supplied with a diffuser.)

False ceiling plate	UTKZ-395
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for sizes 125-4, 160-4 and 200-4

(body size of diffuser 425 x 425)

Perforated diffuser plate (from 9/2017)	RHKZ-a-B
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Unperforated diffuser plate (from 9/2017)	RHOZ-a-B
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Body size of diffuser (a)

4 = 425 x 425 (for diffuser connections Ø125, 160, 200)

6 = 595 x 595 (for diffuser connections Ø250, 315, 400)