

Application:

The lattice diffuser type HREC is suited for exhaust air. The diffuser can be mounted in the ceiling and can be fitted with a (lined) plenum box which is supplied ready assembled. Model 550 is also suited for Tee-bar mounting in ceilings, centre-to-centre 600 mm. In addition, an assembled adapter with round top connection is an optional extra.

Features:

The large free area (83%) makes the diffuser suited for a high capacity at a low sound level.

Dimensional data:

Model	B	A	D1	D2	T	P
250	248	242	198	123	70	235
300	313	307	248	158	70	270
400	388	382	313	198	75	315
500	483	477	398	198	75	315
550	557	551	498	248	105	395

Alternative sizes and connections are available on request.

Remarks:

The dimensions are given in mm.

For further eggcrate options see page 20 chapter 2

Specify when screw holes are required.

HREC

- ▶ Lattice type diffuser
- ▶ Return

Design:

Lattice diffuser

flange and core: aluminium
finish: epoxy powder
colour: white RAL 9010

Plenum box

material: steel
treatment: galvanised sendzimir
lining: 12 mm polyester wool
finish: none

Adapter

material: steel
treatment: galvanised sendzimir
finish: none

Damper

Circular model
material: steel
treatment: galvanised sendzimir

Square model

material: extruded aluminium
treatment: none

Available types:

H R E - - -

H high capacity diffuser
R return
E lattice (15 x 15 mm)

- frame

- C** surface mounted flange (35 mm) fixed internal assembly
- A** surface mounted flange (35 mm) removable internal assembly
- O** no frame, core only
- U** U-shaped frame

- accessories

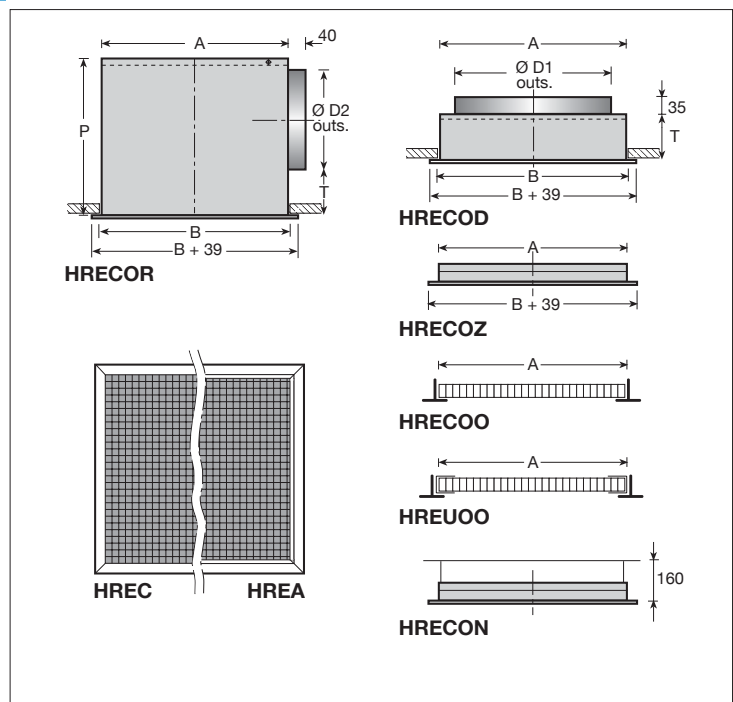
- O** none
- V** spigot damper (upto 313)
- S** neck damper on rear of grille

- available as options

- D** round top connection
- R** fixed assembled, lined plenum box
- U** fixed assembled un-lined plenum box
- Z** square top connection
- N** square top, non vision plate (HREA, HREC only)

Specify when screw holes are required.

Dimensions:



Performance data HREC:

Air volume		model	HRECOU (R) round sidecon.		HRECOD round topcon.		HRECOZ square topcon.	
m ³ /s	m ³ /h		Ps	Lp	Ps	Lp	Ps	Lp
0,030	108	250	5	-				
0,040	144	250	9	-				
0,050	180	250	14	11				
		300	5	-				
0,060	216	250	20	17	4	-		
		300	7	-				
0,070	252	250	27	21	5	-		
		300	10	-				
		400	5	-				
		500	4	-				
0,080	288	250			7	-		
		300	13	12	2	-		
		400	6	-				
		500	5	-				
0,100	360	250			11	12	5	-
		300	21	19	4	-		
		400	10	-				
		500	8	-				
		550	3	-				
0,125	450	250			17	19	7	12
		300	32	26	6	-		
		400	15	16	2	-		
		500	13	14				
		550	5	-				
0,150	540	250			24	25	10	18
		300			9	10	4	-
		400	21	22	3	-		
		500	19	20				
		550	8	-				
0,200	720	250			43	34	18	27
		300			16	19	7	12
		400	36	30	6	-		
		500	33	28	2	-		
		550	14	17				
0,250	900	250					29	34
		300			24	26	10	20
		400			10	13	4	-
		500			4	-		
		550	21	23				
0,300	1080	250					42	40
		300			35	33	15	26
		400			14	19	6	12
		500			5	-	2	-
		550	30	29	3	-		
0,400	1440	250						
		300					26	35
		400			24	29	10	22
		500			9	15	4	-
		550			5	-		
0,500	1800	300					41	42
		400			38	36	16	29
		500			15	23	6	16
		550			8	15	4	-
0,600	2160	300						
		400					23	35
		500			21	29	9	22
		550			12	21	5	14
0,800	2880	400					41	44
		500			38	38	16	31
		550			21	30	9	23
1,000	3600	500					25	38
		550			33	37	14	30
1,250	4500	500					53	46
		550			52	45	22	38
1500	5400	550					32	44

General:

The pressure drop applies to fully opened damper
 • static pressure drop Ps in Pa.
 The assumed room absorption is 10 dB.
 • sound pressure Lp in dB(A).
 Intermediate values may be interpolated.

Plenum box sound dampering:

Model	Middle frequency bands					
	125	250	500	1K	2K	4K
250	5	0	3	10	5	11
300	3	1	6	7	7	9
400	2	2	9	7	7	9
500	2	4	9	7	7	10
550	0	6	7	7	6	9