

# HREC

Ceiling diffuser

Lattice diffuser

Return

## Use

The HREC lattice diffuser is suitable for air extraction. The diffuser can be fitted in the ceiling and can be fitted with an insulated or uninsulated plenum box, which is supplied ready assembled. As standard, the plenum box is equipped with 8 mm hanging holes in the raised edge of the plenum. Model 550 is also suitable for T-bar mounting in a centre-to-centre 600 mm modular ceiling. A fitted adapter with a round top connection can also be supplied.

## Characteristics

The large free flow (95 %) makes the diffuser suitable for a high capacity with a low noise level.

## Version

### Lattice diffuser

frame and face plate: aluminium  
post-treatment: epoxy  
colour: white RAL 9010, optional RAL colour of your choice

### Plenum box

material: sendzimir galvanised steel  
internal insulation: 1/2" duct liner  
post-treatment: none

### Adapter

material: sendzimir galvanised steel  
post-treatment: none

### Volume unit (square version)

material: extruded aluminium  
treatment: none

### Optional

plenum box: flat-sided

## SA-Select

Check [SA-select](#) to create extended order codes and selection details online. **NB!** At this moment, SA-Select is only available in Dutch. But it is possible to create extended order codes and selection details online.

## Available types

### HRE - - -

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

### - Frame

- C** surface-mounted frame 35 mm fixed internal unit
- A** surface-mounted frame 25 mm loose, removable internal unit
- O** none, lattice only
- U** none, lattice with U profile

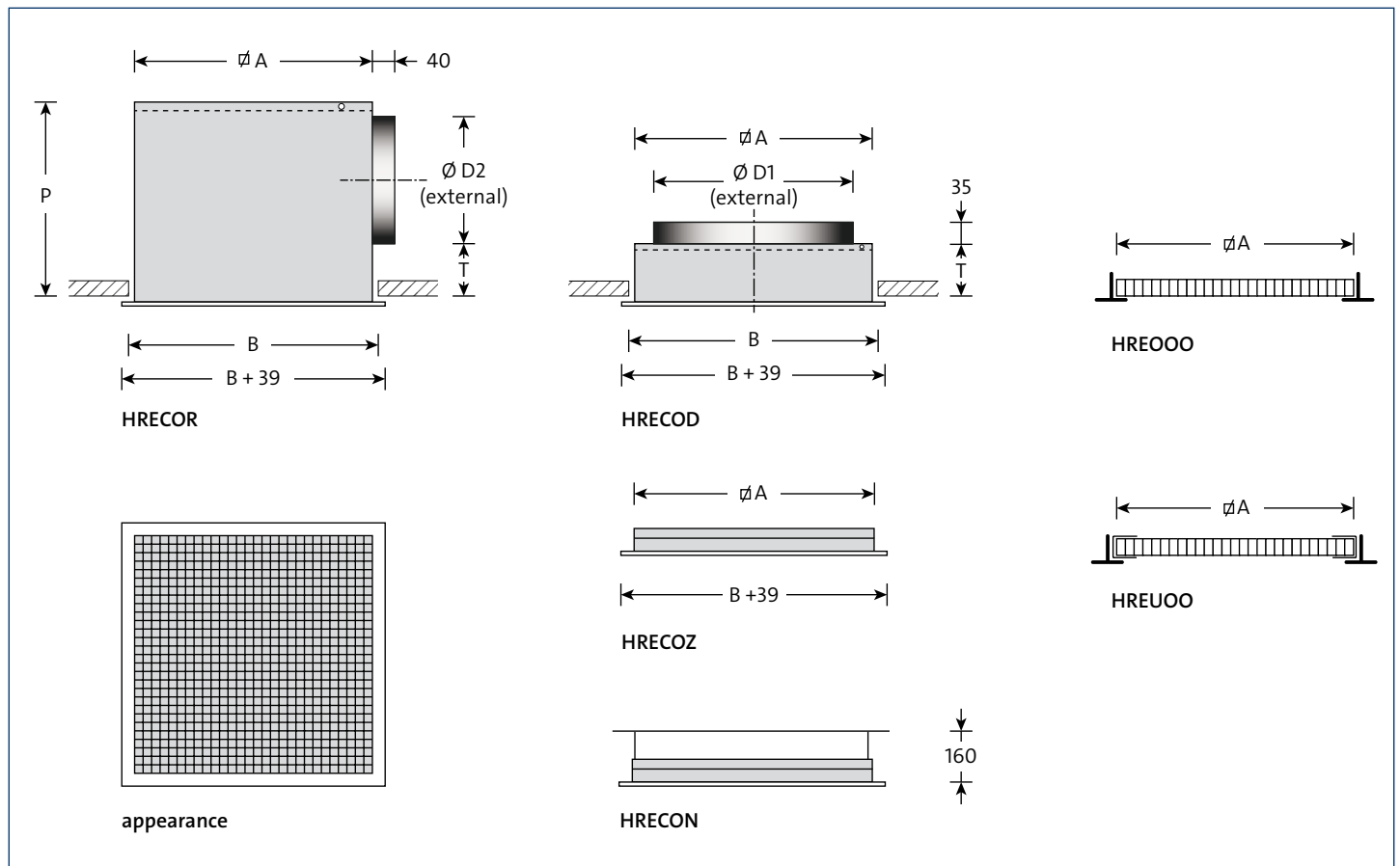
### - Accessories

- O** none

### - Version

- D** round top connection
- N** without plenum, with separate sightproof cover (HREA and HREC only)
- O** none
- R** assembled, internally insulated plenum box
- U** assembled, uninsulated plenum box
- Z** square top connection

## Dimensions



## Available dimensions and sizes

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	85	325
550	557	551	498	248	105	395

## Note

- The dimensions are in mm.
- Information regarding flat-sided plenum boxes is available on our website.
- The HREC diffuser model 550 mm is 595 mm over the frame and therefore suitable for T-bar mounting in a modular ceiling with a 600 mm centre-to-centre panel size.

## Selection details HREC

air volume		model	HRECOU/HRECOR side connection round		HRECOD top connection round		HRECOZ top connection square	
m <sup>3</sup> /s	m <sup>3</sup> /h		$\Delta p_s$ Pa	L <sub>pA</sub> dB(A)	$\Delta p_s$ Pa	L <sub>pA</sub> dB(A)	$\Delta p_s$ Pa	L <sub>pA</sub> dB(A)
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
1.500	5400	550					32	44

## General

- The pressure loss applies to a fully opened volume unit.
- The assumed room attenuation is 10 dB.
- It is permitted to interpolate the interim values.

For the selection details for HREOOO, HREUOO and HRECON, see the details for HRECOZ.

## Attenuation values plenum box

model	attenuation values						
	125	250	500	1k	2k	4k	Hz
250	5	0	3	10	5	11	dB
300	3	1	6	7	7	9	dB
400	2	2	9	7	7	9	dB
500	2	4	9	7	7	10	dB
550	0	6	7	7	6	9	dB