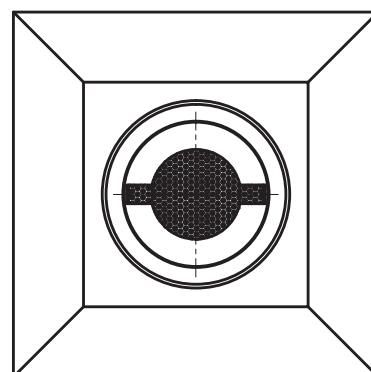


# Invisible diffuser, optimised for climate ceilings

- supply -

Type PSC....



## Application

- Diffuser, optimised for installation on climate ceiling panels developed by HC KP, with radial blow pattern and Coanda effect. The unique air supply system prevents induced air from passing directly along the ceiling panel, thereby minimising ceiling discolouration. Visually unobtrusive installation.

## Technical information

### Properties:

- Visually unobtrusive installation.
- Meets stringent comfort requirements.
- Prevents dirt deposits.

### Finish:

- Sprayed black interior.
- Made from galvanised sheet steel.
- Standard colour mat RAL 9005 matte.
- All types can be delivered with an optional top connection (E1); the top connection shall be delivered unassembled.
- All types (except type 500 and 600) can be used in combination with a plaster cover.
- If combined with plaster, please contact our technicians.
- Other finishes on request.

### Installation:

- Anywhere on top of the false ceiling.
- Secured by means of tape or clamping springs: easy to relocate after installation.
- Recommended minimum straight air flow 2x connection diameter ØD.
- Any connection components installed on top of the diffuser must be hung separately.

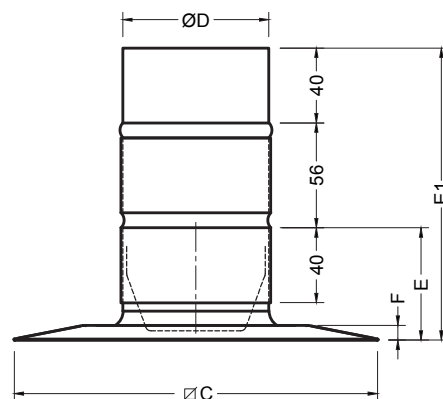
## Regular type

- PSC0008-0250-72516:  
Diffuser with 4-sided radial supply air pattern, suitable for climate ceilings with perforation type P2.5-16 (16% open, 0.7 mm thick).
- PSCN008-0250-72516:  
Same, however in combination with an extended top connection (unassembled).
- PSCNEK-0250:  
Extended top connection (unassembled).

## Specifications

### Example:

Diffuser with 4-sided radial air expulsion pattern, suitable for installation in HC KP climate ceiling panel, fitted with perforation type P2.5-16. Diffuser made from galvanised sheet steel. Standard colour mat black RAL 9008. HC Barcol-Air type PSC0008-0250-72516.



Type PSC....

## Dimensions

Model	∅ C	ØD	E	E1	F
200	197	78	63	159	6
220	224	78	64	160	7
250-70	244	78	65	161	8
250	244	78	70	166	13
300	294	98	75	171	15
400	394	123	85	181	20
500	494	158	95	191	25
600	594	198	100	196	30

Notes on dimensions:  
1. Dimensions in millimeters.

Selection table

Air volume		Model	Throw	Throw	$\Delta p_s$ Pa	LpA dB(A)
m <sup>3</sup> /s	m <sup>3</sup> /h		$\Delta T = -11K$ m	$\Delta T = -5K$ m		
0,011	40	200	0,3	0,4	26	26
0,013	45	200	0,4	0,5	33	30
0,015	54	200	0,7	0,8	48	35
		220	0,4	0,5	13	19
		250-70	-	0,4	10	17
0,018	63	220	0,7	0,8	17	24
		250-70	0,4	0,5	13	22
0,020	72	250-70	0,7	0,8	18	26
		250	0,6	0,7	13	21
0,025	90	250	0,8	0,9	20	28
		300	-	0,6	11	21
0,030	108	250	1,0	1,1	28	34
		300	0,6	0,8	16	26
0,035	126	250	1,2	1,3	39	39
		300	0,7	0,9	21	31
		400	0,7	0,8	6	-
0,040	144	250	1,4	1,5	50	43
		300	0,9	1,1	28	35
		400	0,8	1,0	7	-
0,045	162	300	1,0	1,3	35	38
		400	1,0	1,2	9	21
		500	x	1,1	4	-
0,050	180	300	1,1	1,5	44	41
		400	1,1	1,3	12	24
		500	x	1,2	5	-
0,060	216	300	1,4	1,9	63	46
		400	1,3	1,7	17	29
		500	x	1,4	8	-
		600	x	0,9	3	-
0,070	252	400	1,6	2,0	23	34
		500	1,2	1,6	11	22
		600	x	1,1	4	-
0,080	288	400	1,8	2,4	30	38
		500	1,4	1,8	14	26
		600	x	1,3	6	-
0,090	324	400	2,1	2,7	37	42
		500	1,5	2,0	18	30
		600	x	1,5	7	-
0,100	360	400	2,3	3,1	46	45
		500	1,7	2,2	22	33
		600	x	1,7	9	-
0,115	413	500	1,9	2,5	29	38
		600	x	2,0	12	22
0,125	450	500	2,0	2,7	34	40
		600	x	2,3	14	25
0,150	540	500	2,4	3,2	49	46
		600	x	2,8	20	31
0,175	630	600	x	3,3	25	37
0,200	720	600	x	3,8	36	41

1. The above selection data apply to a room height of 2.70 - 3.0 m and installation of the grid in a diffuser ceiling.

2. Throw data are based on supply air with a  $\Delta T = -11 K$  and  $-5 K$  below room temperature.

3. The stated LpA values include a room absorption of 10dB/Oct.

4. Soud pressure levels below 20 dB(A) are indicated as "-".

5. Throw less than 0.5 metres is indicated as "-".

6. When using  $\Delta T = -11 K$ , grid models 500 and 600 are not recommended for large air quantities. These are indicated with x.