

UF

Bar diffuser

Supply/return

With or without frame

Use

The UF bar diffuser is suitable for supplying cooled or heated air with a limited temperature difference or for return air. The diffuser can be fitted in a wall or a windowsill. A wide range of frames and internal units is available.

Characteristics

Undertemperature, floor/windowsill:	up to 6 K
Undertemperature, wall:	up to 10 K
Overtemperature:	up to 15 K
Free flow:	55 - 75 %

Version

Diffuser

frame:	anodised aluminium
vanes:	anodised aluminium
post-treatment:	none
colour:	blank

Optional

post-treatment:	epoxy
colour:	white RAL 901

Volume unit

material:	sendzimir galvanised steel
post-treatment:	none

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

UF - - - -

- U** wall diffuser
- F** bar diffuser

- Vane

- 0** vane 0°
- 1** vane 15°

- Finish

- 0** anodised aluminium
- R** RAL 9010

- Frame UF

- 0** without frame
- A** standard frame (25 mm)
- B** flat frame (20 mm)
- D** double louvres
 - horizontal: fixed
 - vertical: adjustable

- Hinging section

- 0** without hinging section
- P** with hinging section

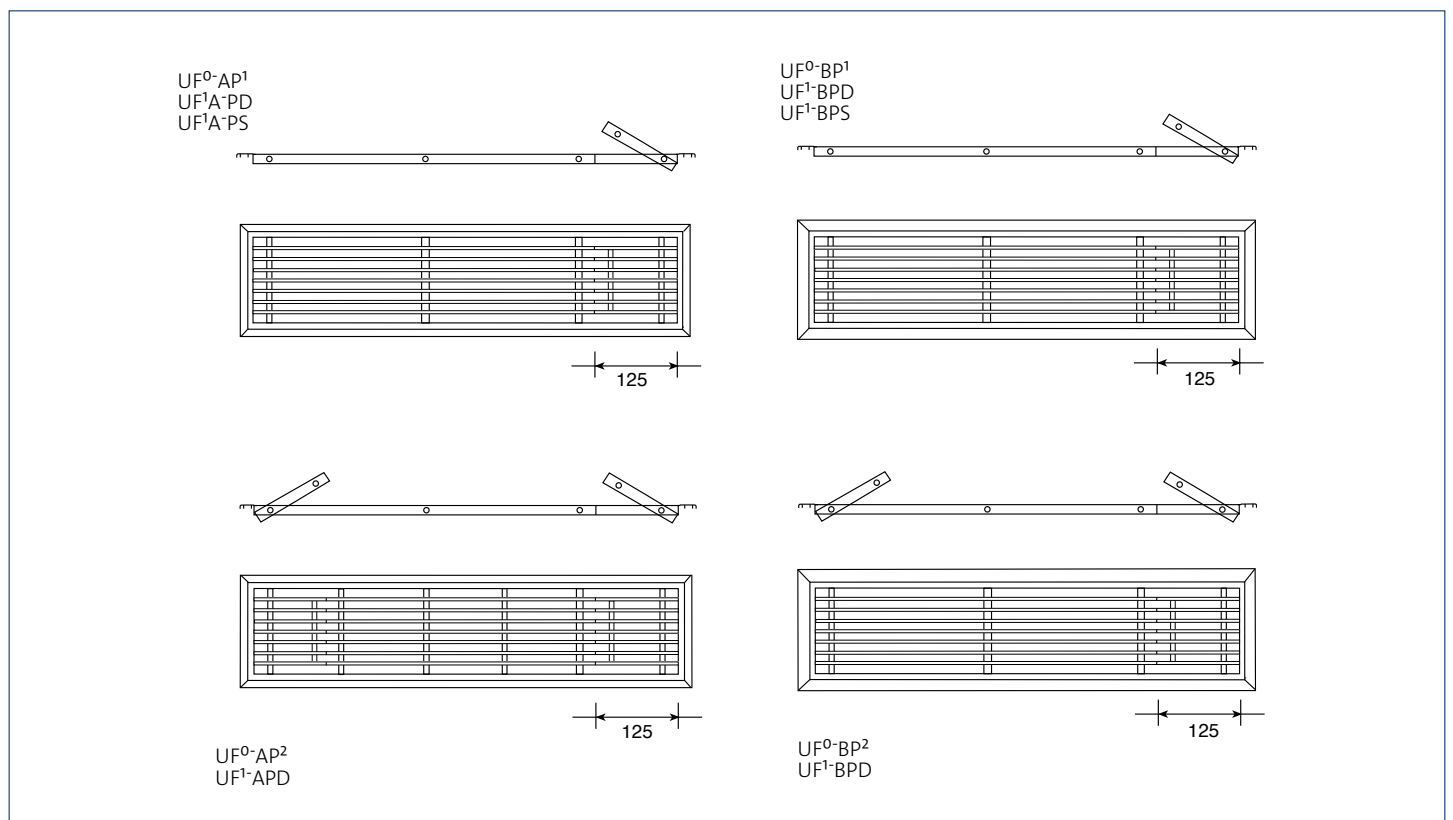
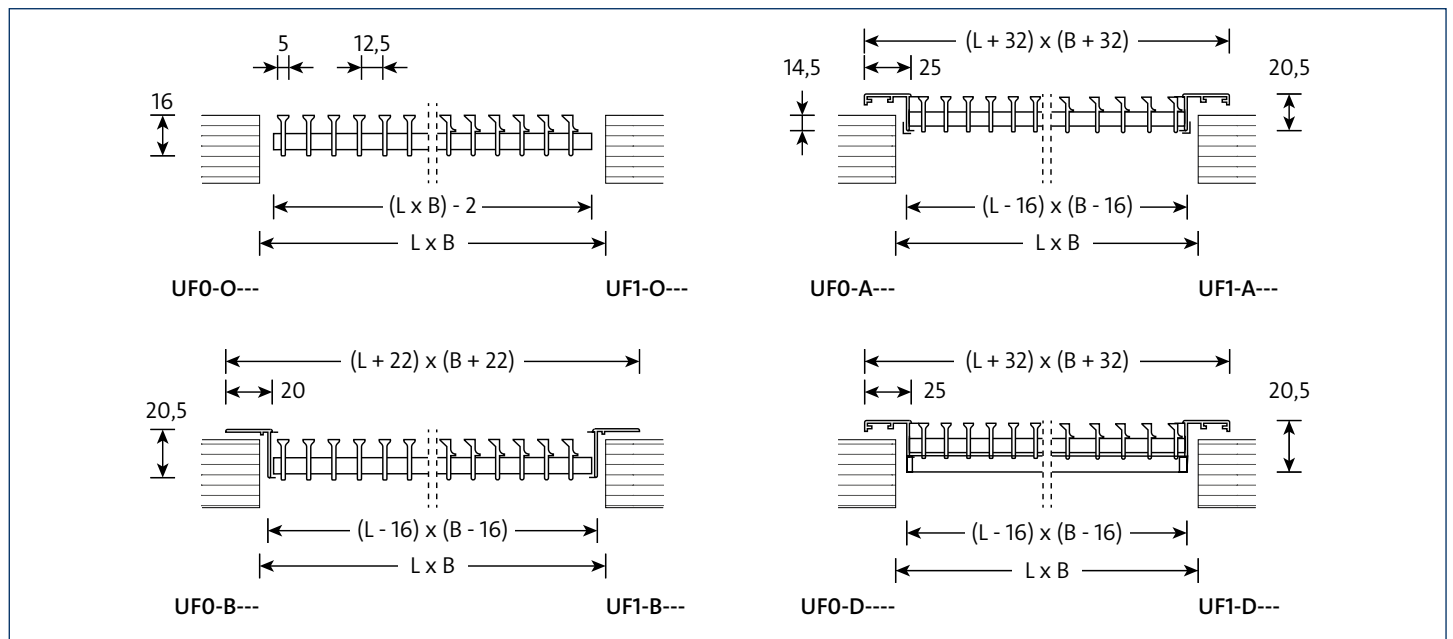
- Position

- 0** without hinging section
- 1** with hinging section (with vane 0°)
- D** hinging section left
- S** hinging section right
- 2** hinging section left and right

- Accessories

- 0** none
- V** volume unit

Dimensions



Available dimensions

- Length available in one piece up to 2000 mm.
- Width available in one piece up to 600 mm.
- Other lengths and widths available on request.

Note

- The dimensions are in mm.
- Available with a click frame, information available on request.
- $L \times W$ is the recess size.

Selection details

UFO bar 5 centre-to-centre 12.5 deflection 0°:

W = 75					
m ³ /s/m	m ³ /h/m	throw Ww m	throw Wv m	Δp _s Pa	L _{pA} dB(A)
0.100	360	3.4	2.7	14	21
0.125	450	4.3	3.4	21	26
0.150	540	5.2	4.2	34	32
0.200	720	7.0	5.5	54	38
0.300	1,080	8.8	6.9	85	45

W = 100					
m ³ /s/m	m ³ /h/m	throw Ww m	throw Wv m	Δp _s Pa	L _{pA} dB(A)
0.125	450	3.7	2.8	11	20
0.150	540	4.4	3.6	16	25
0.200	720	5.8	4.6	28	32
0.250	900	7.4	5.8	45	38
0.300	1,080	9.1	7.3	63	44

W = 150					
m ³ /s/m	m ³ /h/m	throw Ww m	throw Wv m	Δp _s Pa	L _{pA} dB(A)
0.200	720	4.7	3.8	11	24
0.250	900	5.8	4.6	18	29
0.300	1,080	7.0	5.6	25	34
0.400	1,440	9.0	7.5	45	42
0.500	1,800	12.0	9.5	66	49

W = 200					
m ³ /s/m	m ³ /h/m	throw Ww m	throw Wv m	Δp _s Pa	L _{pA} dB(A)
0.250	900	5.0	3.9	9	23
0.300	1,080	6.1	4.7	13	28
0.400	1,440	8.3	6.3	23	35
0.500	1,800	10.2	8	36	42
0.600	2,160	12.0	9.5	50	46

W = 300					
m ³ /s/m	m ³ /h/m	throw Ww m	throw Wv m	Δp _s Pa	L _{pA} dB(A)
0.400	1,440	6.3	4.8	8	25
0.500	1,800	8.2	6.2	14	32
0.600	2,160	9.4	7.6	19	36
0.800	2,880	12.6	10	29	44
1.000	3,600	15.5	12.5	50	51

UFI bar 5 centre-to-centre 12.5 deflection 15°:

W = 75					
m ³ /s/m	m ³ /h/m	throw Ww m	throw Wv m	Δp _s Pa	L _{pA} dB(A)
0.100	360	3.4	2.7	18	21
0.125	450	4.3	3.4	26	26
0.150	540	5.2	4.2	43	32
0.200	720	7.0	5.5	68	38
0.300	1,080	8.8	6.9	106	45

W = 100					
m ³ /s/m	m ³ /h/m	throw Ww m	throw Wv m	Δp _s Pa	L _{pA} dB(A)
0.125	450	3.7	2.8	14	20
0.150	540	4.4	3.6	20	25
0.200	720	5.8	4.6	35	32
0.250	900	7.4	5.8	56	38
0.300	1,080	9.1	7.3	79	44

W = 150					
m ³ /s/m	m ³ /h/m	throw Ww m	throw Wv m	Δp _s Pa	L _{pA} dB(A)
0.200	720	4.7	3.8	14	24
0.250	900	5.8	4.6	23	29
0.300	1,080	7.0	5.6	31	34
0.400	1,440	9.0	7.5	56	42
0.500	1,800	12.0	9.5	83	49

W = 200					
m ³ /s/m	m ³ /h/m	throw Ww m	throw Wv m	Δp _s Pa	L _{pA} dB(A)
0.250	900	5.0	3.9	11	23
0.300	1,080	6.1	4.7	16	28
0.400	1,440	8.3	6.3	29	35
0.500	1,800	10.2	8	45	42
0.600	2,160	12.0	9.5	63	46

W = 300					
m ³ /s/m	m ³ /h/m	throw Ww m	throw Wv m	Δp _s Pa	L _{pA} dB(A)
0.400	1,440	6.3	4.8	10	25
0.500	1,800	8.2	6.2	18	32
0.600	2,160	9.4	7.6	24	36
0.800	2,880	12.6	10	36	44
1.000	3,600	15.5	12.5	63	51

General

- Volume per metre diffuser.
- Throw is given with an end velocity of 0.3 m/s.
- Ww: throw for wall mounting with ceiling effect.
- Wv: throw from windowsill/floor and along the ceiling.
- The assumed room attenuation is 10 dB.
- When air is drawn in, the values in the table need to be corrected with the following factors:
 $\Delta p_s = \text{table value} \times 1.8.$
 $L_{pA} = \text{table value} + 6 \text{ dB}.$

Correction table length

L m	Throw m	dB
0.33	x 0.50	-2
0.66	x 0.85	-1
1.00	x 1.00	0
1.66	x 1.15	+2
2.00	x 1.20	+3