



UF

Bar diffuser Supply/return With or without frame

Available types

UF----

U wall diffuser

F bar diffuser

- Vane

0 vane 0°

1 vane 15°

- Finish

O anodised aluminium

R RAL 9010

- Frame UF

O without frame

A standard frame (25 mm)

B flat frame (20 mm)

D double louvres
horizontal: fixed
vertical: adjustable

- Accessories

O none

V volume unit

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

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

Optional

Post-treatment: epoxy

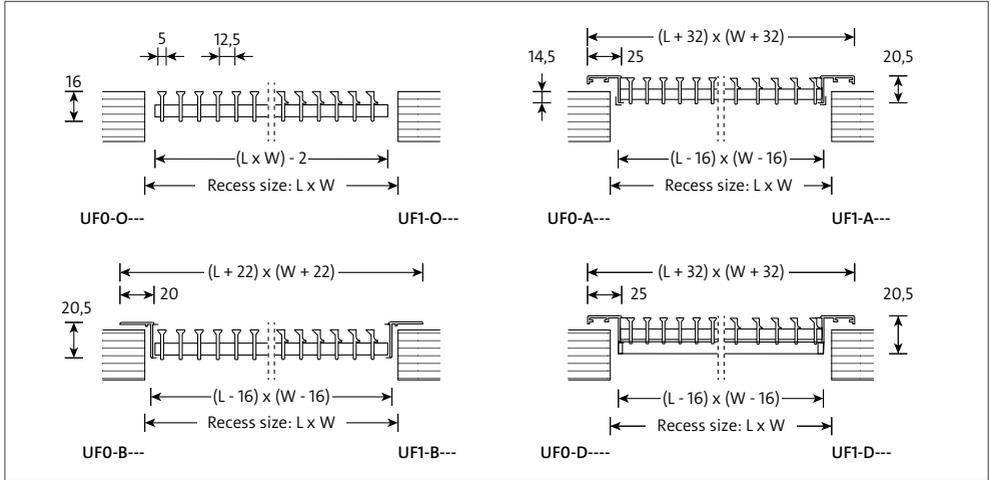
Colour: white RAL 9010

Volume unit

Material: sendzimir galvanised steel

Post-treatment: none

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

Selection details

UF0 bar 5 centre-to-centre 12,5 deflection 0°:

B = 75					
$m^3/s/m$	$m^3/h/m$	throw W_w m	throw W_v 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	1080	8.8	6.9	85	45

B = 100					
$m^3/s/m$	$m^3/h/m$	throw W_w m	throw W_v 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	1080	9.1	7.3	63	44

B = 150					
$m^3/s/m$	$m^3/h/m$	throw W_w m	throw W_v 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	1080	7.0	5.6	25	34
0.400	1440	9.0	7.5	45	42
0.500	1800	12.0	9.5	66	49

B = 200					
$m^3/s/m$	$m^3/h/m$	throw W_w m	throw W_v m	Δp_s Pa	L_{pA} dB(A)
0.250	900	5.0	3.9	9	23
0.300	1080	6.1	4.7	13	28
0.400	1440	8.3	6.3	23	35
0.500	1800	10.2	8	36	42
0.600	2160	12.0	9.5	50	46

B = 300					
$m^3/s/m$	$m^3/h/m$	throw W_w m	throw W_v m	Δp_s Pa	L_{pA} dB(A)
0.400	1440	6.3	4.8	8	25
0.500	1800	8.2	6.2	14	32
0.600	2160	9.4	7.6	19	36
0.800	2880	12.6	10	29	44
1.000	3600	15.5	12.5	50	51

Selection details

UF1 bar 5 centre-to-centre 12,5 deflection 15 °:

B = 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	1080	8.8	6.9	106	45

B = 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	1080	9.1	7.3	79	44

B = 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	1080	7.0	5.6	31	34
0.400	1440	9.0	7.5	56	42
0.500	1800	12.0	9.5	83	49

B = 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	1080	6.1	4.7	16	28
0.400	1440	8.3	6.3	29	35
0.500	1800	10.2	8	45	42
0.600	2160	12.0	9.5	63	46

B = 300					
m ³ /s/m	m ³ /h/m	throw Ww m	throw Wv m	Δp _s Pa	L _{pA} dB(A)
0.400	1440	6.3	4.8	10	25
0.500	1800	8.2	6.2	18	32
0.600	2160	9.4	7.6	24	36
0.800	2880	12.6	10	36	44
1.000	3600	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:

Δp_s = table value x 1.8.

L_{pA} = table value + 6 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