

Application:

Wall diffuser type WUCA (WUAA, WUBA) is suitable for the supply of cooled and heated air with a slight temperature difference. The diffuser can be mounted to the wall or window sill. The horizontal and/or vertical vanes are manually adjustable.

Features:

Max. air exchange:	up to 8x
Under temperature:	up to 10 K
Over temperature:	up to 15 K
Free area:	70%

WUCA

- ▶ Wall/duct diffuser
- ▶ Supply
- ▶ Single/double deflection

Design:

Wall diffuser
 frame
 and vanes: extruded aluminium
 finish: anodised or RAL 9010
 colour: clear

Volume damper
 frame
 and vanes: extruded aluminium
 finish: none

Available types:

W U - A - O

W wall/duct diffuser
U universal application

- **vanes**
- A** vertical vanes
- B** horizontal vanes
- C** horizontal and vertical vanes

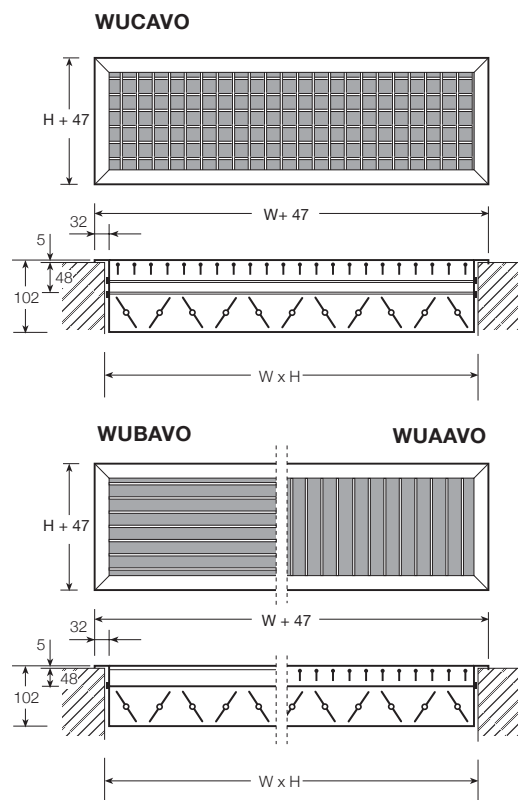
A frame 32 mm, fixed core

- **accessories**
- O** none
- V** volume damper

O not applicable

A range of plenums for the above are also available.

Dimensions:



Remarks:

The stated dimensions are sizes in mm (hole or duct size).
 The actual width is $W - 5$ mm.
 The actual height is $H - 5$ mm.

For the preferable dimensions see the performance data.
 Alternative sizes are available upon request.

Visible mullions will be present when the width exceeds 525 mm.

Performance data WUCA:

Air volume		H	W = 225			325			425			525			625			825			1025			1225								
m ³ /s	m ³ /h		T	Ps	Lp	T	Ps	Lp	T	Ps	Lp	T	Ps	Lp	T	Ps	Lp	T	Ps	Lp	T	Ps	Lp	T	Ps	Lp						
0,015	54	75																														
0,020	72	75	2,2	2	-																											
0,025	90	75	2,7	2	-	2,2	1	-																								
0,030	108	75	3,3	3	-	2,7	2	-																								
0,040	144	75	4,3	6	12	3,6	3	-	3,1	2	-	2,8	1	-																		
		125	3,2	2	-																											
0,050	180	75	5,4	10	18	4,5	4	9	3,8	2	-	3,5	2	-	3,2	1	-															
		125	4,0	3	5	3,3	1	-																								
0,060	216	75				5,4	6	14	4,7	4	8	4,2	2	-	3,8	2	-															
		125				4,0	2	-	3,4	1	-																					
0,070	252	75				6,3	9	10	5,4	5	12	4,9	3	7	4,5	2	-															
		125	5,6	6	13	4,6	3	-	4,0	1	-																					
0,080	288	75				7,2	11	21	6,2	6	15	5,6	4	11	5,1	3	7															
		125	6,4	7	17	5,3	3	8	4,6	2	-	4,1	1	-																		
0,100	360	75							7,8	10	21	7,0	7	16	6,4	5	13															
		125	8,0	11	23	6,6	5	14	5,7	3	8	5,1	2	-	4,7	1	-															
0,125	450	75										8,7	10	22	8,0	7	18															
		125				8,3	8	20	7,2	5	14	6,4	3	9	5,9	2	5	5,1	1	-												
0,150	540	75													9,6	10	23															
		125				9,9	12	25	8,6	7	19	7,7	4	14	7,1	3	10	6,1	2	-	5,5	1	-									
		225							6,2	2	5	5,6	1	-																		
0,200	720	125							11,5	12	26	10,3	8	21	9,4	5	17	8,2	3	11	7,3	2	7									
		225							8,3	3	12	7,5	2	7	6,8	1	-															
0,300	1080	125													14,1	12	28	12,3	7	22	11,0	4	17									
		225							12,5	7	23	11,2	5	18	10,2	3	14	8,9	2	8	7,9	1	3									
		325													8,4	2	6															
0,400	1440	125																16,3	12	29	14,6	8	25									
		225										14,9	9	25	13,6	6	21	11,8	3	15	10,6	2	11									
		325													11,2	3	13															
0,500	1800	225													17,0	9	27	14,8	5	21	13,2	3	16	12,1	2	12						
		325													14,0	4	19	12,2	2	13	10,9	2	8	10,0	1	-						
		425													12,2	2	13	10,6	1	7												
0,600	2160	225													20,4	13	32	17,7	8	26	15,9	5	21	14,5	3	17						
		325													16,8	6	24	14,6	3	17	13,1	2	13	11,9	2	9						
		425													14,6	4	18	12,7	2	11	11,4	1	7									
0,700	2520	225																20,7	10	30	18,5	7	25	16,9	5	21						
		325													19,6	8	28	17,0	5	21	15,3	3	17	13,9	2	13						
		425													17,1	5	22	14,8	3	15	13,3	2	11	12,1	1	7						
0,800	2880	225																			21,2	9	29	19,3	6	25						
		325													22,4	11	31	19,5	6	25	17,4	4	20	15,9	3	16						
		425													19,5	6	25	16,9	4	19	15,2	2	14	13,8	2	10						
1,000	3600	225																								24,2	9	30				
		325																			24,3	10	31	21,8	6	26	19,9	4	22			
		425																			24,4	10	31	21,2	6	25	18,9	4	20	17,3	2	16
m ³ /s	m ³ /h	H	T	Ps	Lp	T	Ps	Lp	T	Ps	Lp	T	Ps	Lp	T	Ps	Lp	T	Ps	Lp	T	Ps	Lp	T	Ps	Lp						

General:

The throw is stated at a straight forced air outflow pattern, at maximum wide-spread pattern, 0.65 x the indicated value applies.

- throw T in meters.

The pressure drop applies when the volume damper is in full open position.

- static pressure drop Ps in Pa.

The adopted room absorption is 10 dB.

- sound pressure level Lp in dB(A).

Interpolation of intermediate values is acceptable.

Remark:

If the diffuser is mounted 0.3 m below the ceiling, recommended air pattern is about 5° upwards. For a greater distance to the ceiling, the forced air angle must be adjusted.