



WTHA/WTHB

Wall diffuser Supply High induction

3

Available types

WTH---

- W** wall diffuser
- T** supply
- H** high induction

- Frame

- A** 26 mm, removable internal unit (standard)
- B** 6.5 mm, removable internal unit

- Accessories

- O** none
- V** volume unit
- B** volume unit and deflector 15°
- S** deflector 15° (supplied separately)

- Discharge direction

- O** right (standard)
- L** left
- R** right
- S** spread (standard 5 degrees upward)

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 WTH wall diffuser is suitable for supplying cooled or heated air with a large temperature difference in respect of the room temperature. The diffuser has a high mechanical strength. The high induction internal unit facilitates a large number of air changes and gives the diffuser a short throw. As the horizontal and vertical louvers are in one plane, an optimum spread is guaranteed. The diffuser is factory-set to the required discharge pattern. With a straight, left and right discharge pattern, an upward 5° or 15° inflow is possible for the diffuser, depending on the type of diffuser face. For a spread discharge pattern, this is standard set at 5° up.

Characteristics

Max. number of air changes:	up to 16 x
Undertemperature:	up to 10 K
Overtemperature:	up to 15 K
Free flow:	85 %

Version

Wall diffuser

Frame:	extruded aluminium
Internal unit:	steel
Post-treatment:	epoxy
Colour:	white RAL 9010, optional RAL colour of your choice

Volume unit

Frame and vanes:	extruded aluminium
Post-treatment:	none

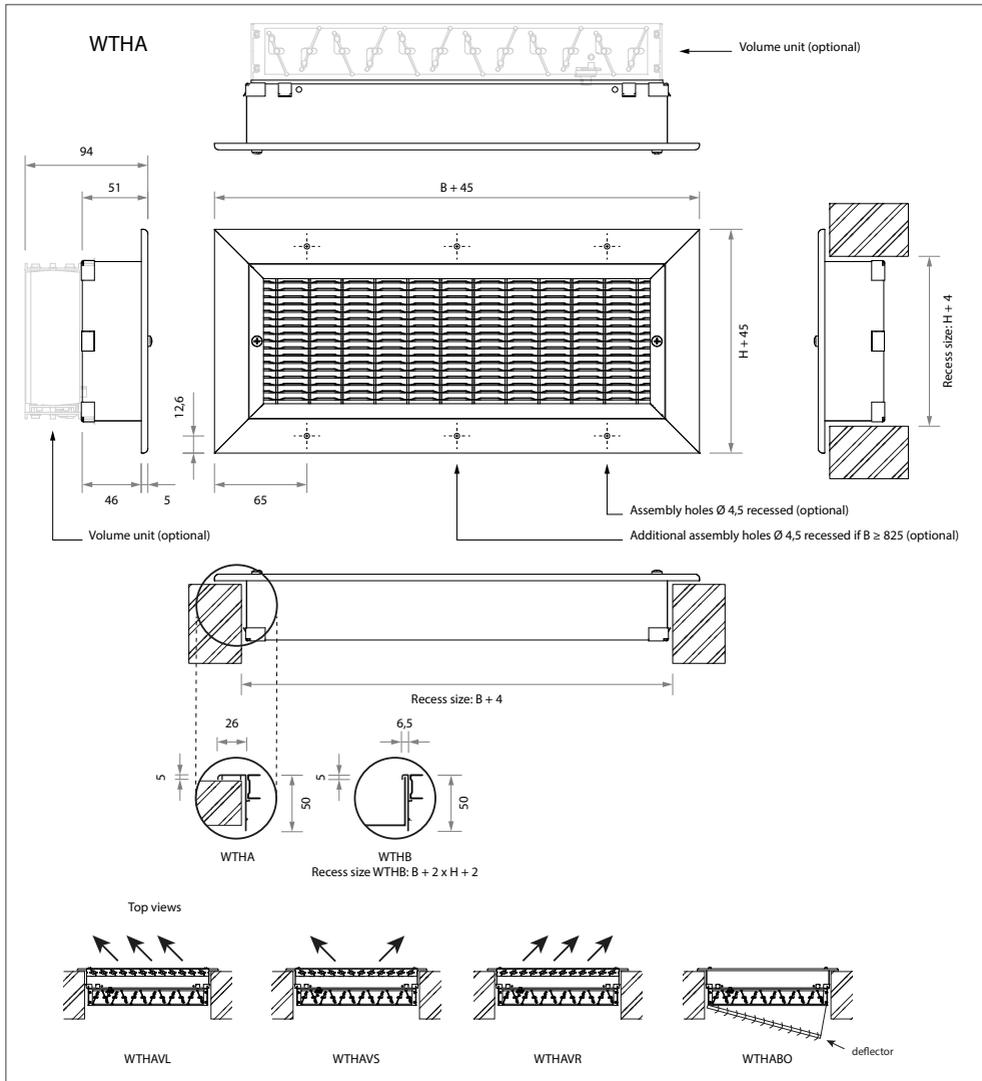
Optional

Click frame: WOOOKO available up to W x H 625 x 325 mm the diffuser has spring clips when used with a click frame.

See documentation.

Plenum boxes: WTO, insulated or uninsulated
Mounting holes: for WTHA only

Dimensions



Standard dimensions

H	B							
	225	325	425	525	625	825	1025	1225
75	■	■	■	■	■	■	■	■
125	■	■	■	■	■	■	■	■
225	■	■	■	■	■	■	■	■
325		■	■	■	■	■	■	■

The available models marked in grey are not preferable from an air-distribution point of view, and therefore they are not included as standard in SA-Select. These selection details are available on request.

Available dimensions

- Interim sizes available in increments of 5 mm.
- Width min. 200, max. 1225.
- Height min. 75, max. 325.

Note

- When fitted < 0.3 m below the ceiling, it is recommended to have an upward inflow at an angle of 5°.
- When fitted 0.3 - 0.6 m below the ceiling, it is recommended to have an upward inflow at an angle of 15°.
- This does not have a measurable impact on the throw length.
- If the distance below the ceiling is greater, there will be a small Coanda effect during cooling and this may create an unstable air pattern.
- Please ask our sales department for more information.
- Only use click frames in solid walls.
- The listed dimensions are in mm.
- Recess size WTHA: $B + 4 \times H + 4$.
- Recess size WTHB: $B + 2 \times H + 2$.

Selection details

WTHA/WTHB

air volume		H	B																															
			225			325			425			525			625			825			1025			1225										
m ³ /s	m ³ /h	W	Δp _s	L _{pA}	W	Δp _s	L _{pA}	W	Δp _s	L _{pA}	W	Δp _s	L _{pA}	W	Δp _s	L _{pA}	W	Δp _s	L _{pA}	W	Δp _s	L _{pA}	W	Δp _s	L _{pA}	W	Δp _s	L _{pA}						
0.015	54	75	2.3	2	-																													
0.020	72	75	3.1	4	-																													
0.025	90	75	3.8	6	-	2.6	3	-																										
0.030	108	75	4.6	9	10	3.2	4	-	2.4	2	-																							
		125	3.6	2	-																													
0.040	144	75	6.1	15	18	4.2	7	-	3.2	4	-	2.6	2	-																				
		125	4.8	4	-																													
0.050	180	75				5.3	10	15	4.0	6	-	3.2	4	-	2.7	3	-																	
		125	6.0	6	-	4.1	2	-																										
0.060	216	75				6.3	15	19	4.8	8	13	3.9	5	-	3.2	4	-																	
		125	7.2	8	12	4.9	4	-	3.8	2	-																							
0.070	252	75							5.6	11	17	4.5	7	12	3.8	5	-																	
		125	8.4	11	16	5.8	5	-	4.4	3	-																							
0.080	288	75							6.4	15	21	5.1	10	16	4.3	7	12																	
		125	9.6	14	20	6.6	6	12	5.0	3	-	4.0	2	-																				
0.100	360	75										6.4	15	22	5.3	10	18																	
		125				8.2	10	17	6.3	5	11	5.0	3	-	4.2	2	-																	
0.125	450	75													6.7	16	23																	
		125				10	15	23	7.8	9	17	6.3	5	12	5.3	4	-	3.9	2	-														
0.150	540	125							9.4	12	21	7.5	8	16	6.3	5	12	4.7	3	-	3.8	2	-											
		225							7.1	3	-	5.7	2	-																				
0.200	720	125										10	14	24	8.4	10	19	6.3	5	14	5	3	-											
		225							9.5	5	13	7.6	3	-	6.4	2	-																	
0.300	1080	125																9.5	12	24	7.6	8	19											
		225							14	12	24	11	8	19	9.5	5	15	7.1	3	-	5.7	2	-											
0.400	1440	325													8.0	2	-																	
		125																			10	14	27											
0.500	1800	225										15	14	26	13	9	23	9.6	5	16	7.6	3	11	6.4	2	-								
		325													11	4	14																	
0.600	2160	225													16	15	28	12	8	22	9.5	5	17	7.9	4	13								
		325													13	6	20	10	4	13	8.0	2	-											
0.700	2520	225																14	12	27	11	8	22	9.5	5	18								
		325													16	9	24	12	5	18	9.6	3	13	8.0	2	-								
0.800	2880	225																17	16	31	13	10	26	11	7	22								
		325													19	13	28	14	7	22	11	5	17	9.3	3	13								
1.000	3600	225																		15	13	30	13	9	26									
		325													21	16	32	16	9	25	13	6	21	11	4	17								
																		20	14	31	16	9	26	13	6	22								

General

- The throw is given for a straight inflow pattern, with a maximum spread the given value x 0.65 applies.
- When the inflow pattern is set to the left or the right, the given value x 0.8 applies.
- 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.