

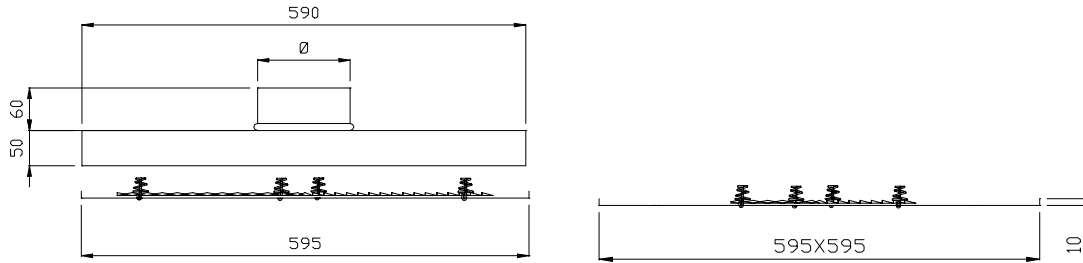
**MULTIDIRECTIONAL PERFORATED  
SCREEN DIFFUSERS**

**KT - KR  
SERIES**

**TECHNICAL CHARACTERISTICS**

**KT**

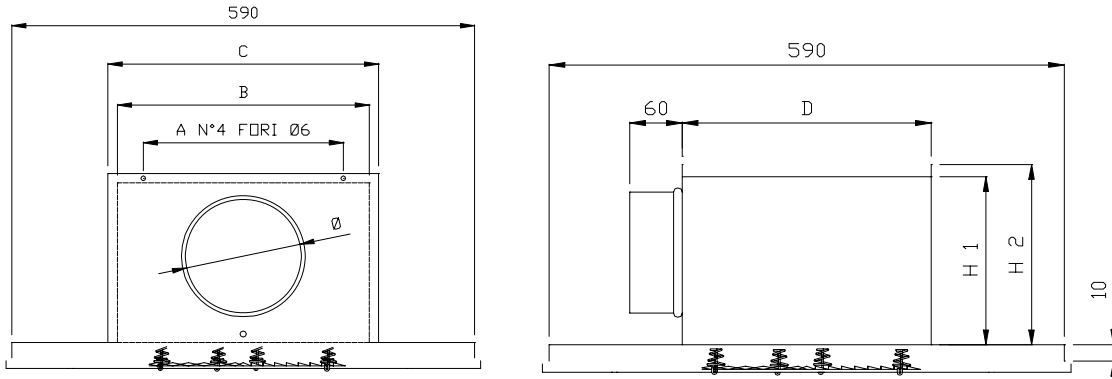
Diffusers with plenum and 595x595 panel.



**KT4-127** with 4 throws and top coupling nominal diameter of 127.  
Other diameters available 152-203-254-315.

**KR**

Diffusers with plenum and 595x595 panel .



**KR4225-127** with 4 throws and side coupling nominal diameter of 127.  
Other diameters available 152-203-254.

**DIMENSIONS**

**TECHNICAL DATA**

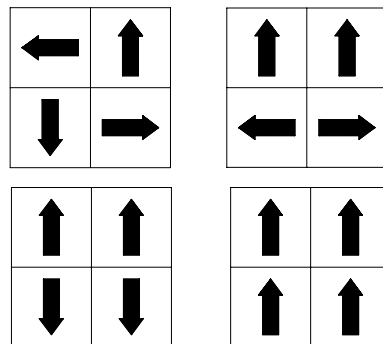
**THROW COMBINATIONS**

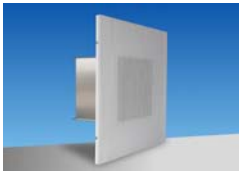
KT . 127  
KT . 152  
KT . 203  
KT . 254  
KT . 305

A	B	C	D	Ø	H1	H2
				123		
				148		
				199		
				250		
				301		

KR . 225-127  
KR . 300-152  
KR . 375-203  
KR . 525-254

180	240	270	210	123	170	185
255	315	345	285	152	205	220
315	390	420	360	199	250	265
365	540	570	510	250	300	315



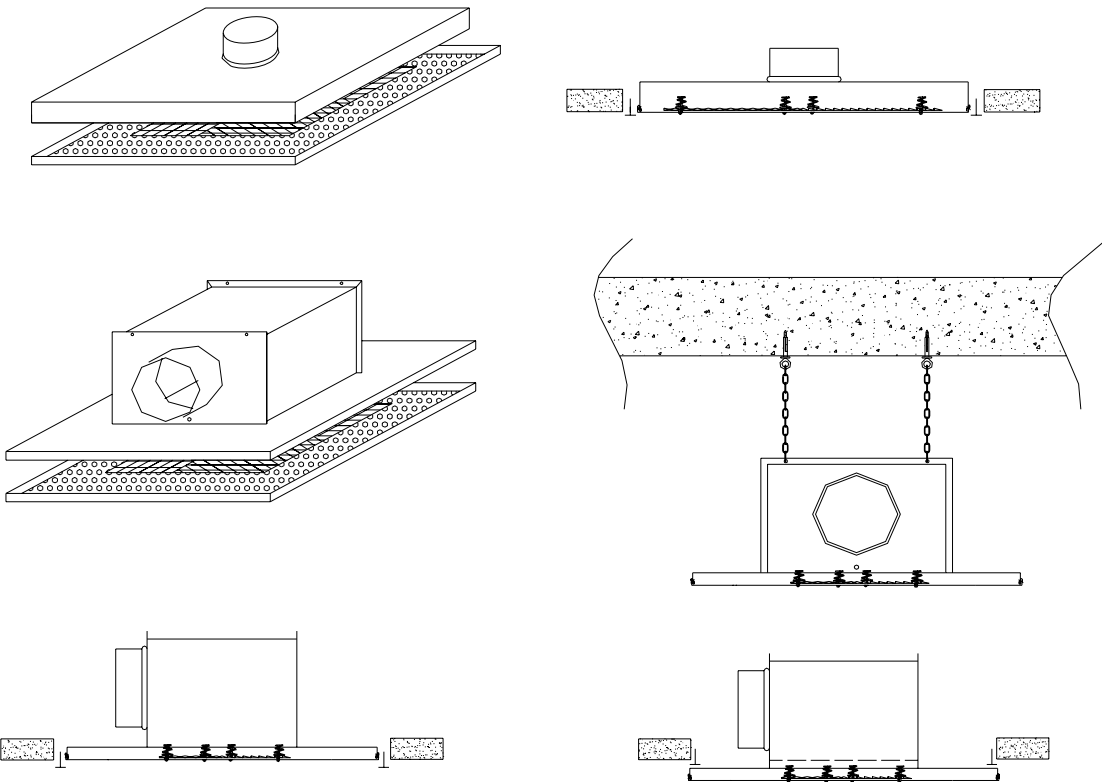


## MULTIDIRECTIONAL PERFORATED SCREEN DIFFUSERS

KT - KR  
SERIES

MOUNTING EXAMPLE

### MOUNTING EXAMPLES

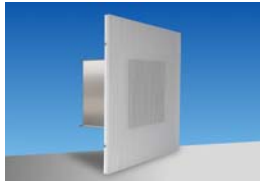


**TECHNICAL DATA :** The KT and KR series diffusers consist of a removable perforated outer screen and a plenum connected by means of top or side fitting. The inside houses removable deflectors which can be adjusted to modify the air direction, obtaining combined or single air flows.

The front screen and the plenum have been designed without any shutter sector in order to guarantee 100% use of the Ak surface, maintaining the same air flow rate, sound level and pressure loss. This air treatment component is therefore suitable for all applications requiring heating and cooling. Obviously it can also be used in the same way in ceiling air extraction, removing the directional components. The anemometer has an operating range from a minimum of 2.6 m to a maximum of 4 m in height.

**MATERIALS :** The panel is made of steel sheet in white colour RAL 9010 (epoxy powder treatment), the plenum is made from galvanized steel sheet.

**FITTING :** The plenum is fitted directly to the ceiling by means of supporting rods.

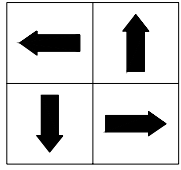


## MULTIDIRECTIONAL PERFORATED SCREEN DIFFUSERS

KT - KR  
SERIES

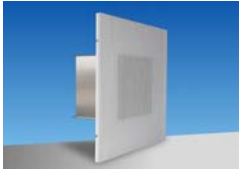
### PERFORMANCE

Air flow m <sup>3</sup> /h	DIFFUSERS WITH 4 DEFLECTORS					Air flow m <sup>3</sup> /h	DIFFUSERS WITH 0 DEFLECTORS				
	↓	KT 4 127 KT 4 152 KR 4 225- 127	KT 4 203 KR 4 375- 203	KT 4 254 KR 4 525- 254	KT 4 305		↓	KT 0 127 KT 0 152 KR 0 225- 127	KT 0 203 KR 0 375- 203	KT 0 254 KR 0 525- 254	KT 0 305
100	Vk	0,9	0,5	0,3		Vk	0,9	0,5	0,3		
	X	0,6	0,4	0,3		X	1,0	0,7	0,5		
	Pt	3,5	0,9	0,3		Pt	3,0	0,8	0,3		
	NR	8,0				NR					
160	Vk	1,5	0,8	0,5	0,3	Vk	1,5	0,8	0,5	0,3	
	X	0,9	0,6	0,5	0,4	X	1,5	1,1	0,9	0,7	
	Pt	8,9	2,3	0,9	0,4	Pt	7,7	2,0	0,7	0,3	
	NR	24,0				NR	7,0				
200	Vk	1,8	0,9	0,6	0,4	Vk	1,8	0,9	0,6	0,4	
	X	1,1	0,8	0,6	0,5	X	1,9	1,4	1,1	0,9	
	Pt	13,9	3,6	1,3	0,6	Pt	12,0	3,1	1,2	0,5	
	NR	31,0	12,0			NR	14,0				
250	Vk	2,3	1,2	0,7	0,5	Vk	2,3	1,2	0,7	0,5	
	X	1,4	1,0	0,8	0,6	X	2,4	1,7	1,3	1,1	
	Pt	21,8	5,7	2,1	0,9	Pt	18,8	4,9	1,8	0,8	
	NR	39,0	19,0	5,0		NR	22,0				
300	Vk	2,8	1,4	0,9	0,6	Vk	2,8	1,4	0,9	0,6	
	X	1,7	1,2	0,9	0,8	X	2,9	2,1	1,6	1,3	
	Pt	31,4	8,2	3,0	1,3	Pt	27,1	7,1	2,6	1,2	
	NR	44,0	25,0	11,0		NR	28,0	8,0			
350	Vk		1,6	1,0	0,7	Vk	3,2	1,6	1,0	0,7	
	X		1,4	1,1	0,9	X	3,4	2,4	1,9	1,5	
	Pt		11,1	4,1	1,8	Pt	36,9	9,6	3,5	1,6	
	NR		30,0	16,0		NR	33,0	13,0			
400	Vk		1,9	1,1	0,8	Vk	3,7	1,9	1,1	0,8	
	X		1,6	1,3	1,0	X	3,8	2,7	2,1	1,7	
	Pt		14,6	5,3	2,4	Pt	48,2	12,6	4,6	2,1	
	NR		35,0	20,0	9	NR	37,0	18,0			
500	Vk		2,4	1,4	1,0	Vk	4,6	2,4	1,4	1,0	
	X		2,0	1,6	1,3	X	4,8	3,4	2,7	2,2	
	Pt		22,8	8,3	3,7	Pt	75,3	19,7	7,2	3,2	
	NR		42,0	27,0	16	NR	44,0	25,0	11,0		
600	Vk			1,7	1,1	Vk		2,8	1,7	1,1	
	X			1,9	1,5	X		4,1	3,2	2,6	
	Pt			12,0	5,4	Pt		28,3	10,4	4,7	
	NR			33,0	22	NR		31,0	17,0	5	
800	Vk			2,3	1,5	Vk		3,8	2,3	1,5	
	X			2,5	2,1	X		5,5	4,3	3,5	
	Pt			21,4	9,6	Pt		50,3	18,5	8,3	
	NR			43,0	31	NR		41,0	26,0	15	
1000	Vk				1,9	Vk			2,8	1,9	
	X				2,6	X			5,3	4,4	
	Pt				15,0	Pt			28,8	12,9	
	NR				39	NR			33,0	22	
1200	Vk				2,3	Vk			3,4	2,3	
	X				3,1	X			6,4	5,2	
	Pt				21,6	Pt			41,5	18,6	
	NR				45	NR			39,0	28	



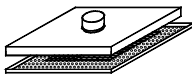
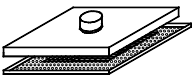
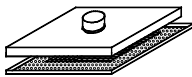

= Actual Velocity m/s  
 = Throw in m.  
 = Total pressure in Pa  
 = Acoustic level

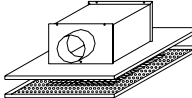
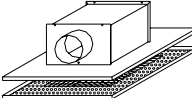
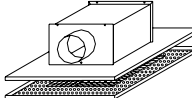

Terminal velocity 0,25 m/s



## MULTIDIRECTIONAL PERFORATED SCREEN DIFFUSERS

KT - KR  
SERIES

	Perforated diffuser with 4 throws and plenum without deflectors	Perforated diffuser with 4 throws, plenum and deflectors	Perforated diffuser with 4 throws, insulated plenum and deflectors	Perforated panel 595x595 RAL 9010 with deflectors
Nominal sizes	KT 0 - ???	KT 4 - ???	KT I 4 - ???	KE
				
127	X	X	X	X
152	X	X	X	
203	X	X	X	
254	X	X	X	
305	X	X	X	

	Perforated diffuser with 4 throws and plenum without deflectors	Perforated diffuser with 4 throws, plenum and deflectors	Perforated diffuser with 4 throws, insulated plenum and deflectors	Perforated panel 595x595 RAL 9010 without deflectors
Nominal sizes	KR 0 ??? - ???	KR 4 ??? - ???	KR I 4 ??? - ???	KF
				
225-127	X	X	X	X
300-152	X	X	X	
375-203	X	X	X	
525-254	X	X	X	

KT Diffuser  
 KR Diffuser  
 4 Number of throws  
 0 Without deflectors  
 225 Plenum's dimensions  
 127 Coupling diameter

Example: KT 4 300 152  
 Diffuser model KT with 4 throws and coupling diameter 152 mm.