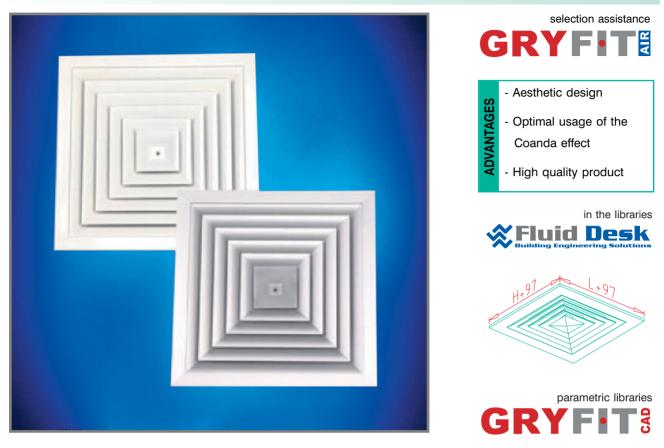
## RNT1



### FOUR-WAY CEILING DIFFUSER



### **FUNCTION / APPLICATION**

RNT1 diffusers are used for air supply or exhaust in ventilation and air-conditioning systems. They may be installed in the rooms' ceilings or directly in ventilation ducts.

### DESCRIPTION

RNT1 diffusers are fitted with fixed blades which are used for four-way air distribution. This type of diffuser is made of steel in RAL 9010 colour (white). RNT1-FP version is designed for direct installation in a false ceiling construction. There is available option of coating the surface with paint in any other RAL colour.

### INSTALLATION

Standard installation of the diffuser is carried out with the use of the central fixing screw which is fitted with a covering plug. To install the diffuser a mounting bar or a plenum box are need to be used.

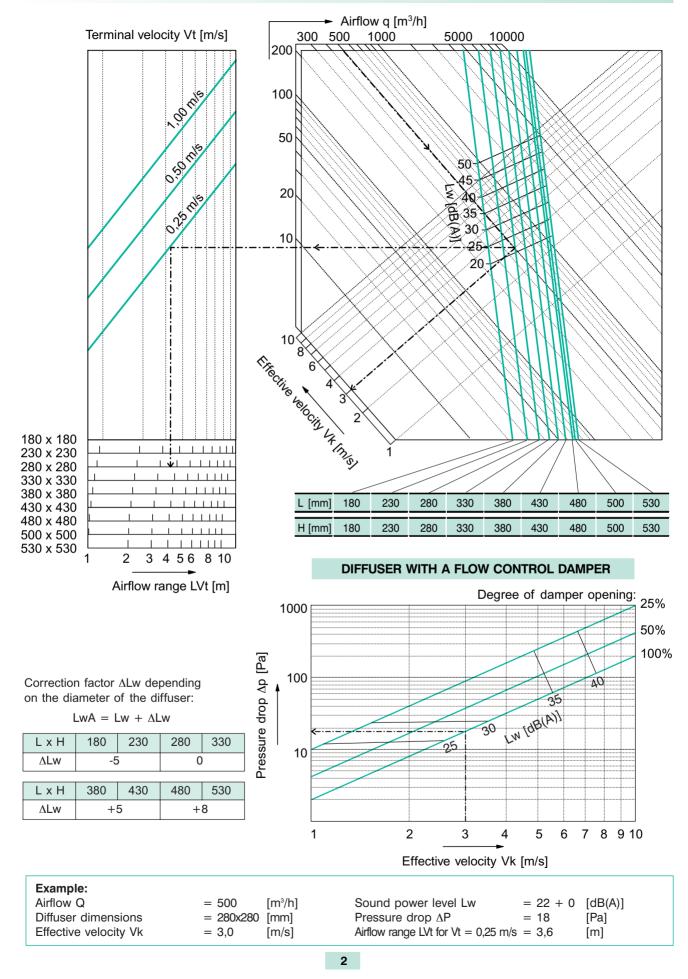
#### ACCESSORIES

- MZN damper made of steel painted with RAL 9005 colour (black), fixed on the diffuser
- DN or DNL plenum box made of galvanised steel, with a side connection, insulated as an optional extra
- DM plenum box made of galvanised steel, with a top connection, insulated as an optional extra
- VFP damper made of galvanised steel and fixed in the connection of the plenum box
- FH-R mounting bar made of galvanised steel

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### SELECTION

RNT1



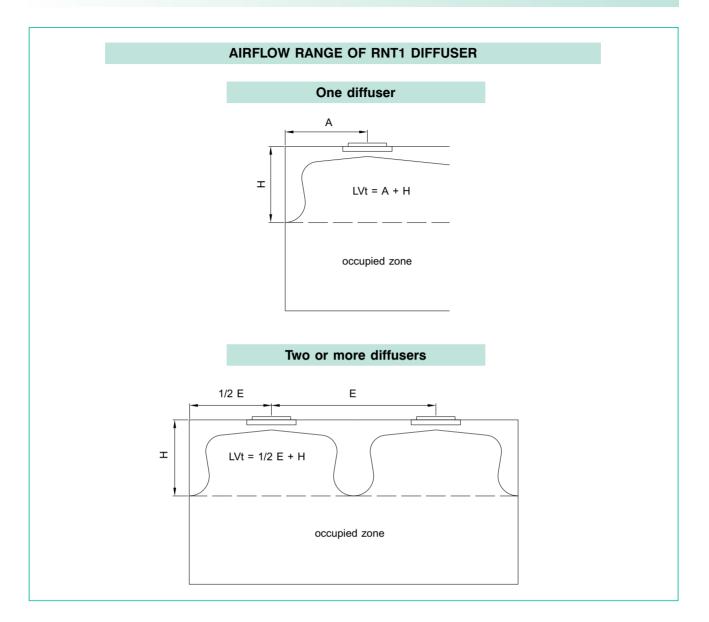
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### RNT1

### SELECTION



### **RNT1 DIFFUSERS USED IN SUPPLY VENTILATION**

Airflow range LVt for Vt=0,25 m/s 2 m		3 m		4 m			5 m			6 m			8 m			10 m													
Airflow range LVt for Vt=0,50 m/s 1 m		1,5 m			2 m			2,5 m			3 m			4 m			5 m												
Airflow range LVt for Vt=1,00 m/s 0,5 m		0,8 m			1 m			1,3 m			1,5 m			2 m			2,5 m												
LxH	6	2	Vk	∆pt	Lw	Q	Vk	∆pt	Lw	Q	Vk	∆pt	Lw	Q	Vk	∆pt	Lw	Q	Vk	∆pt	Lw	Q	Vk	∆pt	Lw	Q	Vk	∆pt	Lw
[mm]	[m	³/h]	[m/s]	[Pa]	[dB(A)]	[m³/h]	[m/s]	[Pa]	[dB(A)]	[m³/h]	[m/s]	[Pa]	[dB(A)]	[m <sup>3</sup> /h]	[m/s]	[Pa]	[dB(A)]	[m³/h]	[m/s]	[Pa]	[dB(A)]	[m³/h]	[m/s]	[Pa]	dB(A)]	[m³/h]	[m/s]	[Pa]	[dB(A)]
180 180	19	91	2,5	13	<20	286	3,8	29	<20	381	5,1	51	25	477	6,3	80	30	572	7,6	116	34	763	10,1	206	40	953	12,7	321	45
230 230	23	37	2,0	8	<20	356	3,1	19	<20	474	4,1	33	22	593	5,1	52	27	711	6,1	75	31	948	8,2	133	37	1185	10,2	208	42
280 280	28	33	1,7	6	<20	424	2,6	13	<20	565	3,4	23	24	706	4,3	37	29	848	5,1	53	33	1130	6,8	94	40	1413	8,6	146	45
330 330	32	27	1,5	4	<20	491	2,2	10	<20	654	3,0	17	22	818	3,7	27	27	981	4,4	39	31	1308	5,9	70	38	1635	7,4	109	42
380 380	37	71	1,3	3	<20	556	2,0	8	<20	742	2,6	14	25	927	3,3	21	30	1113	3,9	31	34	1484	5,2	54	41	1855	6,5	85	46
430 430	41	14	1,2	3	<20	621	1,8	6	<20	828	2,3	11	24	1035	2,9	17	29	1242	3,5	25	33	1657	4,7	44	39	2071	5,8	68	44
480 480	45	57	1,1	2	<20	685	1,6	5	<20	913	2,1	9	25	1142	2,6	14	30	1370	3,2	20	34	1827	4,2	36	41	2284	5,3	56	46
530 530	49	99	1,0	2	<20	748	1,5	4	<20	998	1,9	8	24	1247	2,4	12	29	1497	2,9	17	33	1996	3,9	30	39	2495	4,8	47	44
500 500*	47	74	1,0	2	<20	711	1,5	5	<20	947	2,0	8	25	1184	2,6	13	30	1421	3,1	19	34	1895	4,1	33	40	2369	5,1	52	45

- special dimensions for a false ceiling construction

LVt supplied airflow range
airflow capacity

Q Vk

- effective velocity of supplied airflow

∆pt - pressure drop

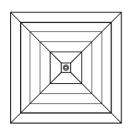
Lw Vt

sound power level of the diffuser
 terminal velocity of supplied airflow

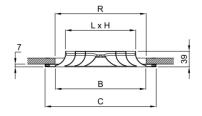
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### DIMENSIONS AND INSTALLATION METHOD

### DIMENSIONS



	RN	DN(L)	DM				
LxH	в	С	R	NA*	NA*		
180	225	277	231	160	125		
230	275	327	281	160	160		
280	325	377	331	250	200		
330	375	427	381	250	250		
380	425	477	431	315	315		
430	475	527	481	315	315		
480	525	577	531	315	355		
500	543	595	595	315	355		
530	575	627	581	355	400		

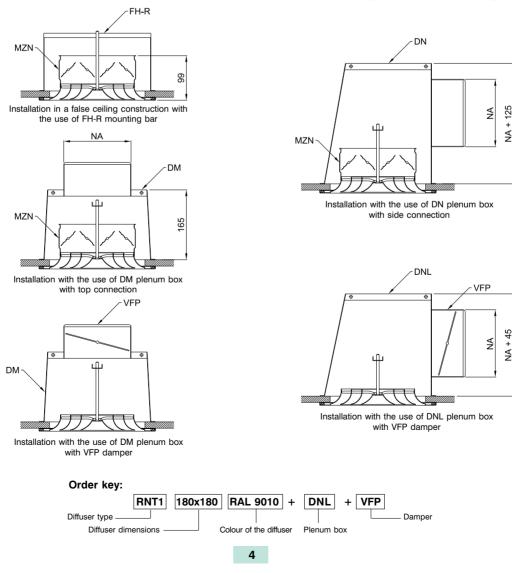


	RN	DN(L)	DM			
LxH	В	С	NA*	NA*		
180	225	595x595	160	125		
230	275	595x595	160	160		
280	325	595x595	250	200		
330	375	595x595	250	250		
380	425	595x595	315	315		
430	475	595x595	315	315		
480	525	595x595	315	355		

\* Standard diameters of the connections. There is available option to order a plenum box with connection which is smaller than standard connection diameter

### INSTALLATION

Installation of the diffuser is carried out with the use of M6 central fixing screw with a covering plug.



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