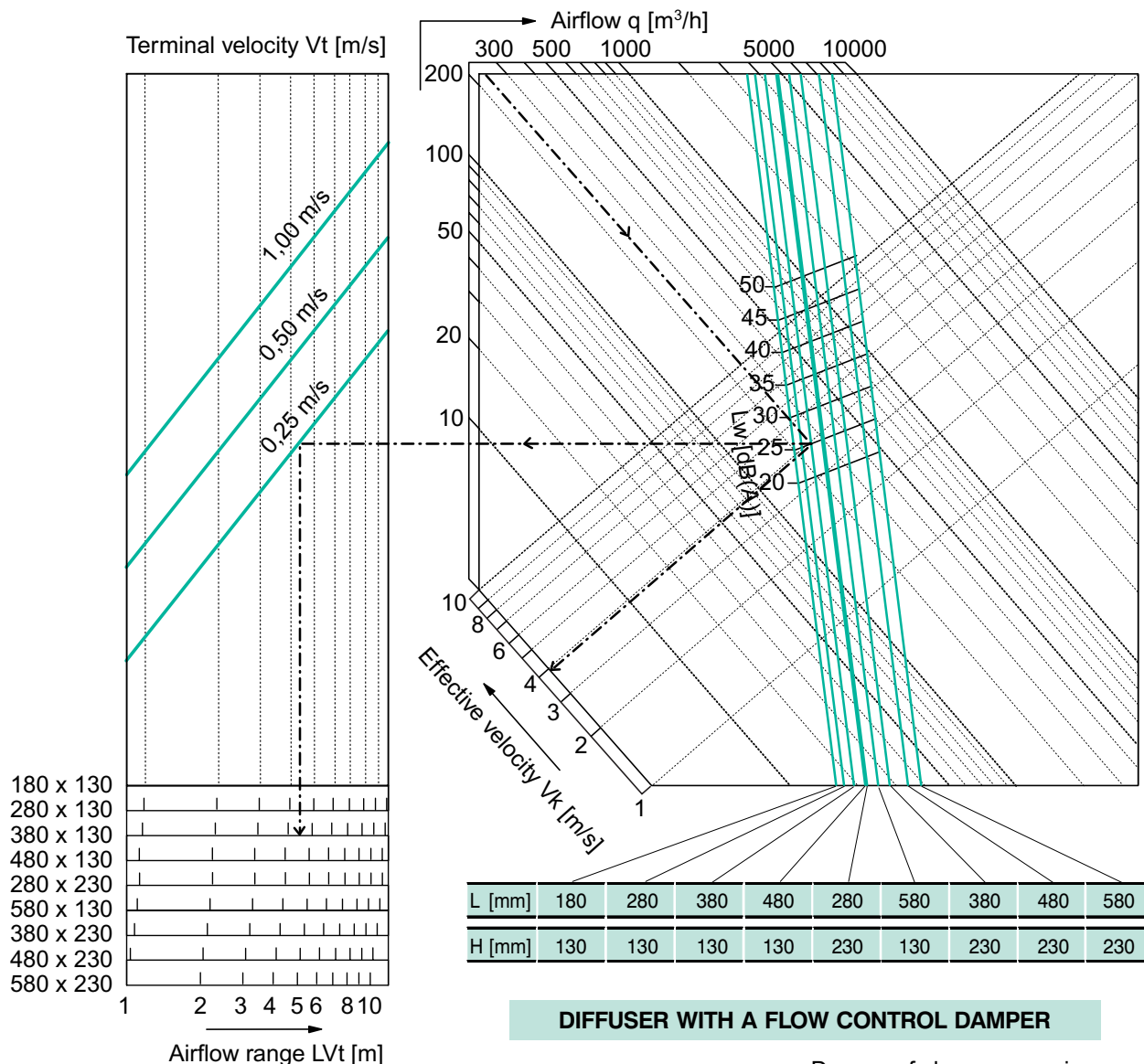
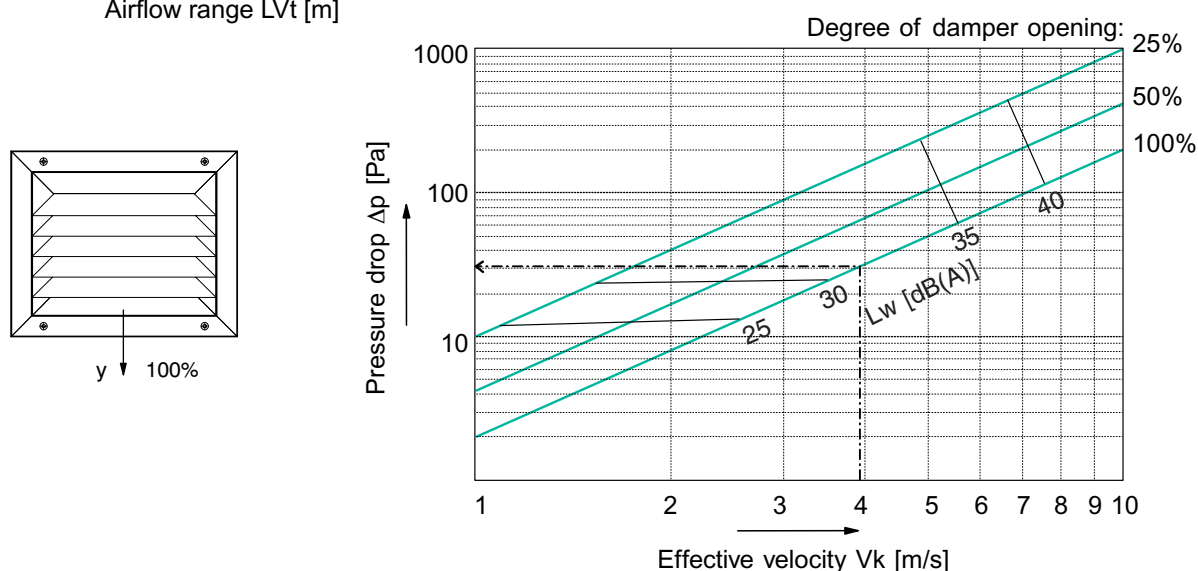


ONE-WAY CEILING DIFFUSER



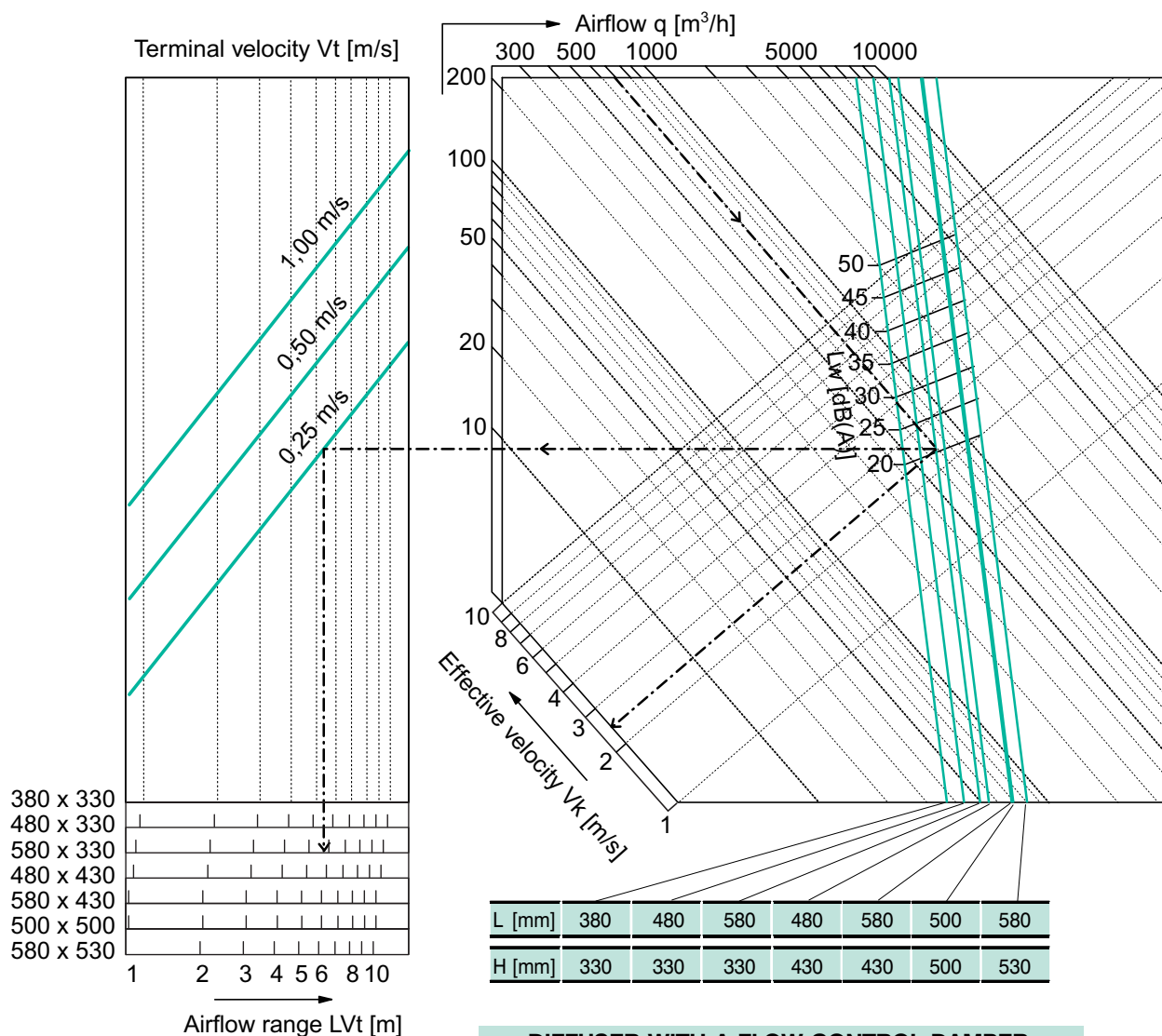
DIFFUSER WITH A FLOW CONTROL DAMPER



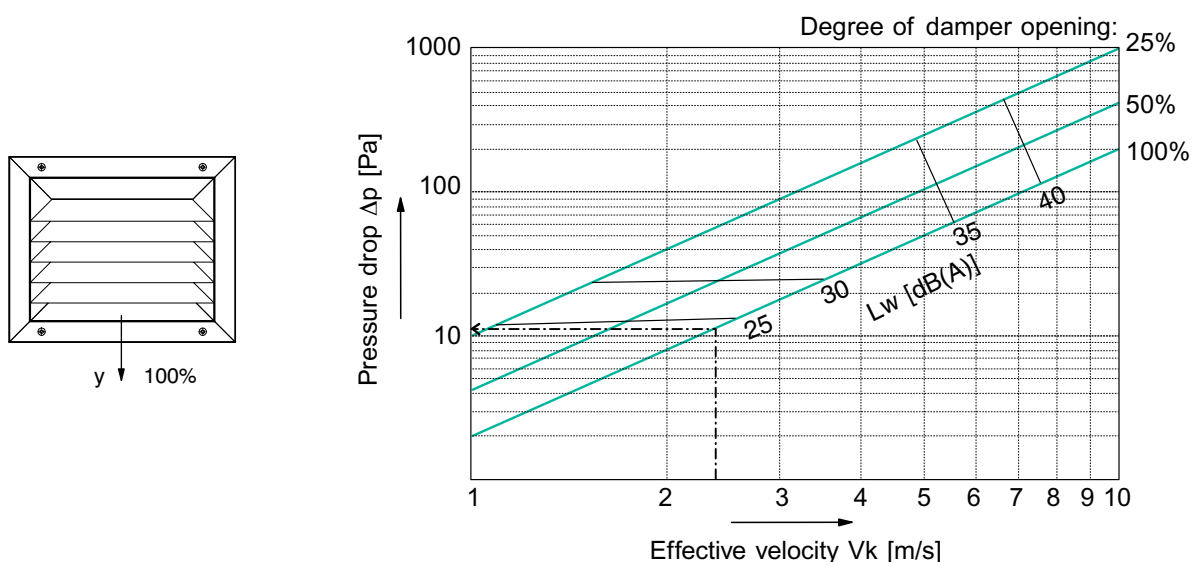
Example:

Airflow Q	= 250	[m ³ /h]	Sound power level L_w	= 25	[dB(A)]
Diffuser dimensions	= 380 x 130	[mm]	Pressure drop ΔP	= 31	[Pa]
Effective velocity V_k	= 3,9	[m/s]	Airflow range LV_t for $V_t=0,25$ m/s	= 4,5	[m]

ONE-WAY CEILING DIFFUSER



DIFFUSER WITH A FLOW CONTROL DAMPER



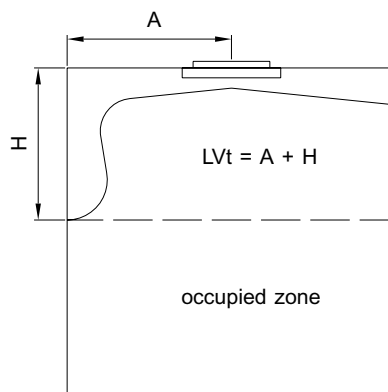
Example:

Airflow Q = 700 [m³/h]
 Diffuser dimensions = 580 x 330 [mm]
 Effective velocity V_k = 2,4 [m/s]

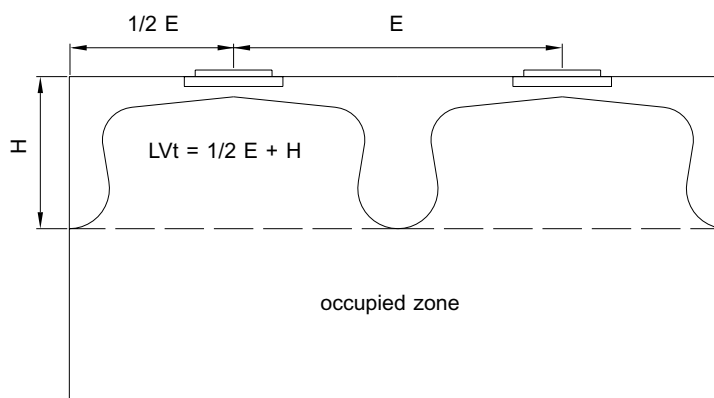
Sound power level L_w = 21 [dB(A)]
 Pressure drop ΔP = 11 [Pa]
 Airflow range for $V_t=0,25$ m/s = 5,9 [m]

AIRFLOW RANGE OF RNT4 DIFFUSER

One diffuser



Two or more diffusers



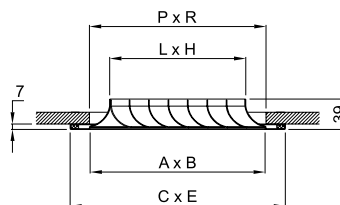
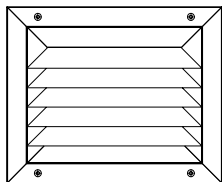
RNT4 DIFFUSERS USED IN SUPPLY VENTILATION

L x H [mm]	2 m				3 m				4 m				5 m				6 m				8 m				10 m			
	1 m				1,5 m				2 m				2,5 m				3 m				4 m				5 m			
	0,5 m				0,8 m				1 m				1,3 m				1,5 m				2 m				2,5 m			
	Q	Vk	Δpt	Lw	Q	Vk	Δpt	Lw	Q	Vk	Δpt	Lw	Q	Vk	Δpt	Lw	Q	Vk	Δpt	Lw	Q	Vk	Δpt	Lw	Q	Vk	Δpt	Lw
	[m³/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)]	[m³/h]	[m/s]	[Pa]	[dB(A)]	[m³/h]	[m/s]	[Pa]	[dB(A)]	[m³/h]	[m/s]	[Pa]	[dB(A)]
180 130	95	2,0	8	<20	143	3,0	18	<20	190	4,0	32	24	238	5,0	51	29	285	6,0	73	33	380	8,1	130	39	475	10,1	203	43
280 130	103	1,9	7	<20	154	2,8	16	<20	205	3,7	28	23	257	4,7	43	28	308	5,6	63	32	411	7,5	111	38	514	9,3	174	42
380 130	110	1,7	6	<20	165	2,6	14	<20	220	3,5	24	23	275	4,3	38	27	330	5,2	54	31	441	7,0	97	37	551	8,7	151	41
480 130	121	1,6	5	<20	181	2,4	11	<20	241	3,2	20	21	302	4,0	32	26	362	4,8	45	30	482	6,4	81	36	603	7,9	126	40
580 130	133	1,4	4	<20	200	2,2	9	<20	266	2,9	17	20	333	3,6	26	25	399	4,3	37	28	532	5,8	66	34	666	7,2	104	39
280 230	122	1,6	5	<20	183	2,3	11	<20	245	3,1	20	21	306	3,9	31	26	367	4,7	44	30	489	6,3	78	35	612	7,8	123	40
380 230	146	1,3	3	<20	219	2,0	8	<20	291	2,6	14	<20	364	3,3	22	24	437	3,9	31	27	583	5,3	55	33	729	6,6	86	38
480 230	169	1,1	3	<20	253	1,7	6	<20	337	2,3	10	<20	422	2,8	16	22	506	3,4	23	25	675	4,5	41	31	844	5,7	64	36
580 230	188	1,0	2	<20	282	1,5	5	<20	377	2,0	8	<20	471	2,5	13	20	565	3,1	19	24	753	4,1	33	30	941	5,1	52	35
380 330	182	1,1	2	<20	273	1,6	5	<20	364	2,1	9	<20	455	2,6	14	21	546	3,2	20	24	728	4,2	35	30	910	5,3	55	35
480 330	207	0,9	2	<20	311	1,4	4	<20	415	1,8	7	<20	519	2,3	11	<20	622	2,8	15	23	830	3,7	27	29	1037	4,6	43	33
580 330	237	0,8	1	<20	355	1,2	3	<20	473	1,6	5	<20	592	2,0	8	<20	710	2,4	12	21	946	3,2	21	27	1183	4,0	33	32
480 430	253	0,8	1	<20	379	1,1	3	<20	506	1,5	5	<20	632	1,9	7	<20	758	2,3	10	20	1011	3,0	18	26	1264	3,8	29	31
580 430	304	0,6	1	<20	455	0,9	2	<20	607	1,3	3	<20	759	1,6	5	<20	911	1,9	7	<20	1214	2,5	13	24	1518	3,2	20	28
580 530	341	0,6	1	<20	511	0,8	1	<20	681	1,1	3	<20	852	1,4	4	<20	1022	1,7	6	<20	1363	2,2	10	22	1704	2,8	16	27
500 500*	304	0,6	1	<20	456	0,9	2	<20	608	1,3	3	<20	760	1,6	5	<20	913	1,9	7	<20	1217	2,5	13	24	1521	3,1	20	28

- * – special dimensions for a false ceiling construction
- LVt – supplied airflow range
- Q – airflow capacity
- Vk – effective velocity of supplied airflow
- Δpt – pressure drop
- Lw – sound power level of the diffuser
- Vt – terminal velocity of supplied airflow

DIMENSIONS AND INSTALLATION METHOD

DIMENSIONS



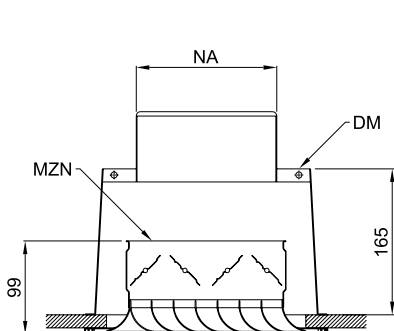
RNT4							DN(L)	DM
LxH	A	B	C	E	P	R	NA*	NA*
180x130	225	175	277	227	231	181	125	125
280x130	325	175	377	227	331	181	125	125
380x130	425	175	477	227	431	181	160	125
480x130	525	175	577	227	531	181	160	125
580x130	625	175	677	227	631	181	160	125
280x230	325	275	377	327	331	281	160	160
380x230	425	275	477	327	431	281	200	160
480x230	525	275	577	327	531	281	250	160
580x230	625	275	677	327	631	281	250	160
380x330	425	375	477	427	431	381	250	250
480x330	525	375	577	427	531	381	250	250
580x330	625	375	677	427	631	381	315	250
480x430	525	475	577	527	531	481	315	315
580x430	625	475	677	527	631	481	315	315
580x530	625	575	677	627	631	581	355	400
500x500**	543	543	595	595	595	595	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

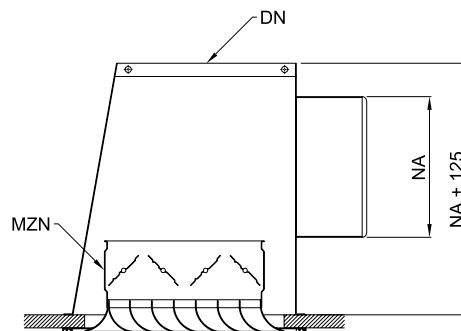
** Special dimension for false ceiling construction

INSTALLATION

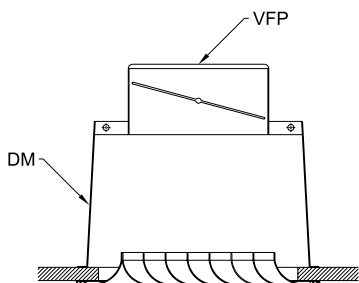
Installation of the diffuser is carried out with the use of screws driving in the holes in the front frame.



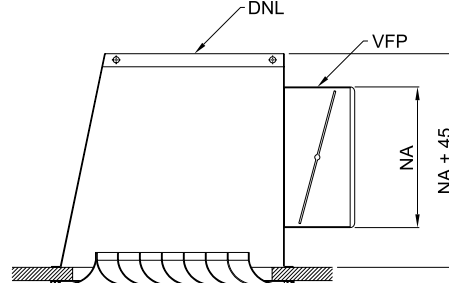
Installation with the use of DM plenum box with top connection



Installation with the use of DN plenum box with side connection



Installation with the use of DM plenum box with VFP damper



Installation with the use of DNL plenum box with VFP damper

Order example:

RNT4 **480x130** **RAL 9010** + **DNL** + **VFP**
 Diffuser type Diffuser dimensions Colour of the diffuser Plenum box Damper