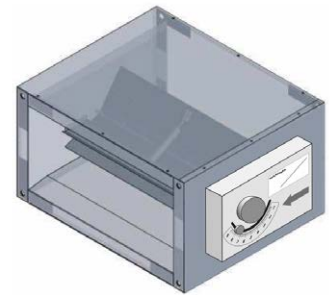
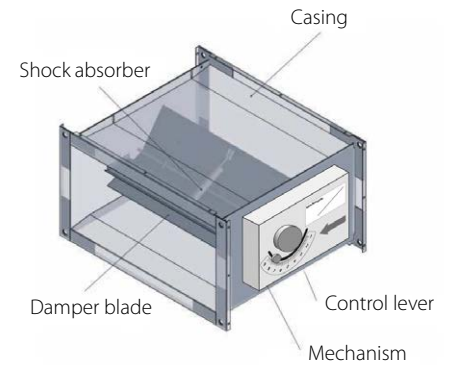
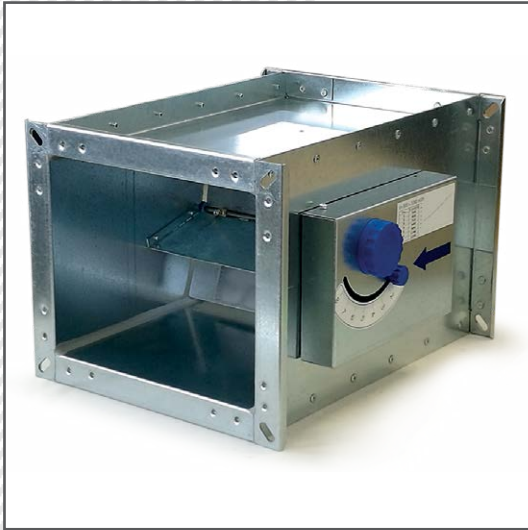


# Constant volume flow regulator MRP-6



Constant volume flow regulators **MRP-6** and **MRP-6-I** are mechanical regulators used to maintain a constant volume flow rate independently of the pressure variations in ventilation and air conditioning systems. Regulators can be installed in a supply and extract air systems. Each regulator is set to the required flow rate and subjected to the aerodynamic function test conducted in our test facility.

The flow rate can be easily set or reset by adjusting the control lever on the calibrated scale. This is done by loosening the control lever's wing bolt and turning the control lever's arrow pointer to the desired value. When adjusted, the control lever is fixed by tightening the wing bolt.

Regulators work at the differential pressure range from 50 to 1000 Pa and the air velocity range from 3 to 10 m/s. As a reference value, recommended air velocity is around 6,5 m/s, where the accuracy of a constant flow rate is usually within a tolerance from  $\pm 5\%$  of the set value. The regulator can operate, without the direct influence of weather conditions on the operation, within a temperature range of  $-20\text{ }^{\circ}\text{C}$  up to  $80\text{ }^{\circ}\text{C}$  and relative humidity up to 80 %.

Regulators should be stored in closed and dry places at temperatures from  $-20\text{ }^{\circ}\text{C}$  to  $+60\text{ }^{\circ}\text{C}$ . Regulator versions:

**MRP-6** – Constant volume flow regulator, rectangular

**MRP-6-I** – Constant volume flow regulator, rectangular - insulated

**CASING** – made of galvanised sheet steel

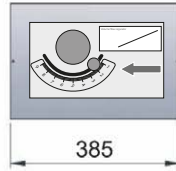
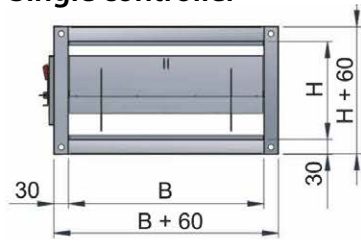
**MECHANISM** – control lever mechanism adjusts the spring tension to control the air flow

**DAMPER BLADE** – provides resistance to the air flow

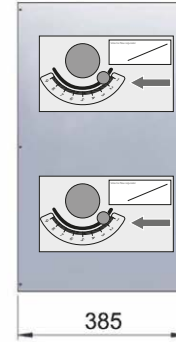
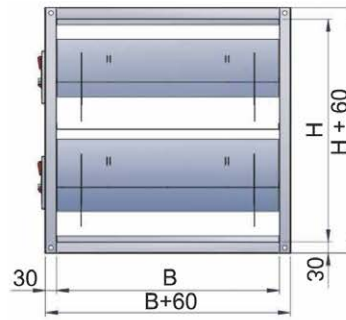
**SHOCK ABSORBER** – serves to absorb the damper blade vibration caused by the air flow

**INSULATION CLADDING** – 30 mm mineral wool layer with galvanised sheet steel outer cover

## Single controller



## Dual controller



B \ H	100	200	300
200	✓	✓	✗
300	✓	✓	✓
400	✓	✓	✓
500	✗	✓	✓
600	✗	✓	✓

B \ H	400	500	600
400	✓	✗	✗
500	✓	✗	✗
600	✓	✓	✓

## Quick selection diagram

B x H [mm]	Q [m³/h]																				
	200	300	400	500	600	700	800	900	1000	1200	1400	1600	1800	2000	2500	3000	3500	4000	5000	6000	
150x150		260					740														
200x150			400						960												
250x150			400								1200										
300x150					600									1800							
400x150					600										2100						
450x150						700										2500					
200x200					600							1400									
250x200					600								1700								
300x200						700								1800							
350x200							800														
400x200								900													
450x200									1000												
500x200										1080											
550x200											1200										
600x200												900									4000
250x250					600											2190					
300x250						800											2600				
350x250							970											3200			
400x250								1080											3600		
450x250									1200											4000	
500x250										1400											
550x250											1500										
600x250												1700									
300x300						900															2900
350x300							1100														3300
400x300								1300													3800
450x300									1500												4000
500x300										1900											4200
550x300											1900										4500
600x300												1900									6100

## Generated noise MRP-6

Modell		$D_p = 125 \text{ Pa}$									$D_p = 250 \text{ Pa}$									$D_p = 500 \text{ Pa}$								
		Sound power $L_w$ [dB]									Sound power $L_w$ [dB]									Sound power $L_w$ [dB]								
$B \times H$ [mm]	$Q$ [m <sup>3</sup> /h]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w$ A[dBA]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w$ A[dBA]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w$ A[dBA]
600 x 300	1944	48	48	42	47	50	49	44	37	54	53	56	48	52	56	57	53	47	62	59	61	53	58	61	63	61	56	68
	3240	57	55	48	52	53	52	47	41	58	61	62	53	60	59	60	56	49	65	65	67	60	61	64	67	64	59	71
	5184	62	62	52	56	55	54	50	43	60	67	68	58	60	61	63	59	53	68	72	73	64	65	67	69	66	61	74
600 x 250	1620	47	48	40	44	48	47	43	36	52	54	58	47	51	56	55	52	47	61	56	61	50	55	58	61	59	55	66
	2700	55	55	46	48	51	50	47	39	56	60	62	51	54	57	57	55	49	63	64	68	56	58	62	64	62	57	69
	4320	62	61	51	53	53	52	49	43	58	68	68	57	58	60	60	58	52	66	72	74	62	62	65	67	66	61	72
600 x 200	1296	42	43	32	32	32	28	25	24	37	51	56	42	46	52	51	49	45	57	56	61	47	50	55	58	57	53	63
	2160	53	56	41	46	48	47	44	39	53	58	62	47	51	53	54	53	48	60	62	58	53	55	58	61	60	56	66
	3456	60	62	46	49	50	51	47	42	56	65	68	54	54	55	57	56	51	63	69	74	58	58	62	64	64	59	70
500 x 300	1620	51	48	43	48	51	50	46	38	55	57	54	49	54	57	58	54	48	63	61	59	55	58	62	64	61	57	69
	2700	59	55	49	52	54	53	48	42	58	64	62	56	58	60	61	58	51	66	68	66	61	62	65	68	64	59	72
	4320	65	61	54	55	56	56	51	45	61	71	66	60	61	62	63	59	54	68	74	72	65	66	67	71	69	63	76
500 x 250	1350	49	48	42	45	49	48	43	38	53	54	54	48	51	56	56	52	48	61	59	59	53	55	61	62	60	55	67
	2250	57	55	46	49	52	51	46	41	56	62	61	53	55	58	59	56	51	64	68	66	59	59	62	66	63	58	70
	3600	65	59	51	53	54	54	51	43	60	69	67	58	58	61	61	58	53	66	74	72	63	63	66	68	67	62	73
500 x 200	1080	49	47	38	42	46	45	42	36	51	53	53	45	47	52	54	51	45	58	58	59	49	52	57	59	58	55	64
	1800	56	55	44	46	49	48	46	39	54	62	60	49	51	55	56	54	49	61	65	66	56	56	61	63	62	57	68
	2880	63	61	48	50	51	51	48	43	57	68	66	55	54	57	59	57	52	64	72	72	61	59	62	65	64	59	70
400 x 300	1296	54	46	45	51	52	52	46	41	57	59	53	52	56	58	59	55	49	64	63	57	57	61	64	66	62	58	70
	2160	61	52	51	53	56	55	49	44	60	67	58	57	59	62	62	57	52	67	71	65	63	64	66	69	65	61	73
	3456	68	58	56	57	58	57	53	46	63	73	65	62	63	64	65	62	55	70	77	69	67	68	68	71	68	64	76



## Generated noise MRP-6

Modell		$D_p = 125 \text{ Pa}$										$D_p = 250 \text{ Pa}$										$D_p = 500 \text{ Pa}$									
$B \times H$ [mm]	$Q$ [m <sup>3</sup> /h]	Sound power $L_w$ [dB]										Sound power $L_w$ [dB]										Sound power $L_w$ [dB]									
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w \Delta$ [dBA]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w \Delta$ [dBA]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w \Delta$ [dBA]			
400 x 250	1080	53	46	43	48	51	50	44	39	55	58	52	49	52	56	57	53	48	62	62	58	54	57	61	64	62	56	69			
	1800	60	52	48	51	53	52	48	42	58	65	59	55	56	59	61	56	52	65	70	65	61	61	64	67	64	59	71			
	2880	67	58	53	54	56	55	51	44	61	73	64	61	60	61	63	59	54	68	76	71	65	64	67	71	67	62	75			
400 x 200	864	51	46	40	44	47	47	43	38	52	56	53	46	48	54	54	52	46	59	62	58	52	53	59	61	59	56	66			
	1440	59	52	46	47	50	50	47	41	55	64	58	52	52	55	57	55	51	62	68	65	57	57	62	64	63	58	69			
	2304	66	58	51	52	52	52	49	44	58	72	65	57	56	58	61	58	53	66	75	71	61	60	63	67	65	62	72			
300 x 200	648	54	44	43	45	49	49	44	39	54	59	49	49	51	55	56	53	48	61	65	55	54	56	60	63	61	57	68			
	1080	62	51	48	49	51	52	47	43	57	67	56	55	54	57	59	57	53	64	72	63	59	59	64	66	64	61	71			
	1728	69	55	53	52	54	56	51	45	60	74	63	59	58	61	62	59	55	67	78	67	64	64	65	59	68	64	72			
300 x 150	486	48	49	43	43	44	46	39	31	50	51	54	48	48	49	52	47	41	56	54	56	52	53	53	58	54	48	62			
	810	56	57	48	48	49	49	44	37	54	59	61	53	53	54	55	52	45	60	61	64	59	59	58	62	59	54	67			
	1296	62	64	55	53	53	52	49	41	59	65	67	59	59	58	58	56	51	64	67	71	63	62	62	65	63	59	70			
200 x 200	324	49	49	39	39	41	43	37	31	47	51	52	46	46	47	50	45	41	54	54	55	49	51	52	56	53	49	60			
	540	60	61	48	46	47	47	46	40	54	58	59	52	50	51	54	51	46	59	61	63	55	54	55	59	58	55	64			
	864	61	64	52	49	51	50	48	41	57	64	67	57	55	56	56	55	51	62	67	69	62	59	60	63	62	59	68			
200 x 150	216	48	47	38	36	39	42	36	29	46	51	50	43	42	44	48	45	39	52	54	54	46	46	48	54	52	47	58			
	360	55	55	43	42	45	46	41	36	51	58	58	49	46	48	51	49	45	56	61	61	53	52	53	58	56	54	63			
	576	62	62	49	46	48	47	46	41	54	64	66	54	53	53	55	54	51	61	67	68	59	56	58	60	61	59	67			

## Radiated noise MRP-6

Modell		$D_p = 125 \text{ Pa}$										$D_p = 250 \text{ Pa}$										$D_p = 500 \text{ Pa}$									
		Sound power $L_w$ [dB]										Sound power $L_w$ [dB]										Sound power $L_w$ [dB]									
$B \times H$ [mm]	$Q$ [m <sup>3</sup> /h]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w$ A[dBA]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w$ A[dBA]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w$ A[dBA]			
600 x 300	1944	44	43	38	38	37	33	26	25	41	49	51	44	43	44	40	35	36	48	54	56	49	48	49	46	43	45	54			
	3240	52	51	43	42	41	35	30	29	45	57	56	50	47	46	42	39	38	51	61	62	56	52	51	49	48	47	57			
	5184	58	56	49	46	43	37	33	32	49	63	62	54	52	48	45	42	41	55	68	68	61	55	54	52	49	49	60			
600 x 250	1620	43	43	36	35	35	30	27	25	39	49	50	41	42	41	37	35	35	46	52	56	46	45	45	44	43	44	51			
	2700	52	51	41	39	38	34	31	28	43	56	57	47	45	43	41	39	38	49	60	62	52	49	48	47	47	46	55			
	4320	58	57	46	43	41	35	33	32	47	64	63	54	49	46	44	42	41	54	68	69	59	53	51	51	50	49	60			
600 x 200	1296	42	43	32	32	32	28	25	24	37	47	50	37	37	39	34	33	33	43	51	56	44	41	43	42	41	41	49			
	2160	49	51	37	36	35	31	29	27	41	54	56	43	42	40	37	37	36	47	58	63	49	45	45	44	45	44	53			
	3456	56	56	43	39	37	33	32	30	44	61	64	49	45	42	40	40	39	51	65	68	54	49	49	47	48	48	57			
500 x 300	1620	47	43	39	39	38	34	29	27	42	52	49	45	45	44	42	36	38	49	56	55	52	49	49	48	44	45	55			
	2700	55	49	46	43	41	36	32	31	46	60	56	53	49	47	45	41	40	53	64	62	56	53	52	50	48	48	58			
	4320	61	56	51	46	43	39	33	33	49	66	62	56	53	49	46	42	42	56	71	67	62	57	54	53	52	51	62			
500 x 250	1350	49	48	42	45	49	48	44	38	53	54	54	48	51	55	56	53	47	61	59	59	53	55	61	62	61	54	67			
	2250	57	54	47	49	52	51	46	41	56	63	61	53	55	58	59	55	51	64	67	66	58	59	63	66	63	58	70			
	3600	65	59	52	53	54	54	51	43	60	69	67	58	58	61	61	58	53	66	73	72	63	63	66	68	66	61	73			
500 x 200	1080	45	42	33	34	33	28	26	24	37	49	48	41	38	39	37	34	34	44	54	55	45	43	45	42	42	44	51			
	1800	53	49	39	38	36	31	29	29	41	57	56	45	43	42	39	38	37	48	62	61	52	47	47	46	47	46	54			
	2880	59	55	45	42	38	34	32	31	45	63	61	51	45	44	43	42	40	52	69	68	56	51	49	48	49	48	58			
400 x 300	1296	49	41	41	42	39	36	29	29	44	55	47	48	46	46	42	38	37	50	59	53	53	51	51	50	46	46	56			
	2160	57	46	48	44	43	38	32	32	47	62	54	53	51	48	45	40	41	54	66	59	59	56	53	52	48	49	59			
	3456	64	53	52	48	46	41	35	34	51	69	59	58	55	52	48	44	45	58	73	64	63	58	56	55	51	52	63			



## Radiated noise MRP-6

Modell		$D_p = 125 \text{ Pa}$									$D_p = 250 \text{ Pa}$									$D_p = 500 \text{ Pa}$								
		Sound power $L_w$ [dB]									Sound power $L_w$ [dB]									Sound power $L_w$ [dB]								
$B \times H$ [mm]	$Q$ [m <sup>3</sup> /h]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w A$ [dBA]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w A$ [dBA]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w A$ [dBA]
400 x 250	1080	49	41	39	38	37	34	28	27	41	53	48	45	43	43	41	37	36	48	58	53	51	48	48	47	45	46	54
	1800	57	46	45	42	40	35	31	32	45	61	54	51	48	47	44	40	40	52	66	59	57	52	51	50	48	49	58
	2880	62	54	49	45	43	38	34	33	48	68	59	57	52	48	46	44	43	55	72	66	62	55	53	53	52	51	61
400 x 200	864	48	41	36	34	34	31	27	26	39	53	48	42	39	41	37	35	35	45	58	52	47	45	46	45	43	44	52
	1440	55	46	42	38	37	33	31	29	42	61	53	47	44	42	40	39	39	49	64	59	54	48	48	47	48	47	55
	2304	61	53	46	42	39	35	33	33	46	67	59	54	47	45	43	42	42	53	70	66	57	51	50	51	49	50	58
300 x 200	648	50	38	38	37	37	32	29	29	41	55	45	45	41	42	39	37	37	47	60	51	51	46	47	46	45	46	53
	1080	58	46	45	40	38	36	31	31	44	64	52	50	45	44	42	41	41	50	68	57	55	51	51	49	48	49	57
	1728	65	51	49	43	42	38	34	34	48	70	58	56	49	47	45	43	43	54	74	62	61	54	52	52	51	52	60
300 x 150	486	44	45	38	35	32	28	23	19	38	48	48	43	39	37	35	31	29	43	49	52	48	44	41	41	38	37	48
	810	52	53	44	39	37	32	27	25	43	54	56	49	44	42	38	35	34	48	57	59	54	49	45	45	43	43	53
	1296	57	59	51	45	40	35	32	29	48	61	63	55	50	45	41	40	39	53	63	65	59	53	49	47	47	48	57
200 x 200	324	45	43	35	31	28	27	22	19	35	48	48	41	36	33	33	29	30	41	50	51	46	42	38	39	37	37	46
	540	51	51	43	36	34	31	27	25	41	55	55	47	42	38	37	36	35	46	57	57	52	46	42	42	42	44	51
	864	57	58	49	41	38	33	32	30	47	60	62	53	46	43	39	40	39	51	64	65	57	50	47	46	46	48	56
200 x 150	216	44	43	33	27	26	25	21	19	33	47	46	38	33	31	31	29	28	39	51	49	42	37	35	36	36	37	44
	360	52	51	39	33	31	28	26	25	39	55	54	44	38	35	34	33	33	44	57	56	49	43	41	41	41	43	50
	576	58	56	45	37	35	31	31	29	44	60	60	51	43	40	38	38	39	49	63	63	54	48	44	43	45	48	54

# MRP-6-I

## Generated noise MRP-6-I

Modell		$D_p = 125 \text{ Pa}$									$D_p = 250 \text{ Pa}$									$D_p = 500 \text{ Pa}$								
		Sound power $L_w$ [dB]									Sound power $L_w$ [dB]									Sound power $L_w$ [dB]								
$B \times H$ [mm]	$Q$ [m <sup>3</sup> /h]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w$ A [dBA]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w$ A [dBA]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w$ A [dBA]
600 x 300	1944	48	48	42	47	50	49	44	37	54	53	56	48	52	56	57	53	47	62	59	61	53	58	61	63	61	56	68
	3240	57	55	48	52	53	52	47	41	58	61	62	53	60	59	60	56	49	65	65	67	60	61	64	67	64	59	71
	5184	62	62	52	56	55	54	50	43	60	67	68	58	60	61	63	59	53	68	72	73	64	65	67	69	66	61	74
600 x 250	1620	47	48	40	44	48	47	43	36	52	54	58	47	51	56	55	52	47	61	56	61	50	55	58	61	59	55	66
	2700	55	55	46	48	51	50	47	39	56	60	62	51	54	57	57	55	49	63	64	68	56	58	62	64	62	57	69
	4320	62	61	51	53	53	52	49	43	58	68	68	57	58	60	60	58	52	66	72	74	62	62	65	67	66	61	72
600 x 200	1296	42	43	32	32	32	28	25	24	37	51	56	42	46	52	51	49	45	57	56	61	47	50	55	58	57	53	63
	2160	53	56	41	46	48	47	44	39	53	58	62	47	51	53	54	53	48	60	62	58	53	55	58	61	60	56	66
	3456	60	62	46	49	50	51	47	42	56	65	68	54	54	55	57	56	51	63	69	74	58	58	62	64	64	59	70
500 x 300	1620	51	48	43	48	51	50	46	38	55	57	54	49	54	57	58	54	48	63	61	59	55	58	62	64	61	57	69
	2700	59	55	49	52	54	53	48	42	58	64	62	56	58	60	61	58	51	66	68	66	61	62	65	68	64	59	72
	4320	65	61	54	55	56	56	51	45	61	71	66	60	61	62	63	59	54	68	74	72	65	66	67	71	69	63	76
500 x 250	1350	49	48	42	45	49	48	43	38	53	54	54	48	51	56	56	52	48	61	59	59	53	55	61	62	60	55	67
	2250	57	55	46	49	52	51	46	41	56	62	61	53	55	58	59	56	51	64	68	66	59	59	62	66	63	58	70
	3600	65	59	51	53	54	54	51	43	60	69	67	58	58	61	61	58	53	66	74	72	63	63	66	68	67	62	73
500 x 200	1080	49	47	38	42	46	45	42	36	51	53	53	45	47	52	54	51	45	58	58	59	49	52	57	59	58	55	64
	1800	56	55	44	46	49	48	46	39	54	62	60	49	51	55	56	54	49	61	65	66	56	56	61	63	62	57	68
	2880	63	61	48	50	51	51	48	43	57	68	66	55	54	57	59	57	52	64	72	72	61	59	62	65	64	59	70
400 x 300	1296	54	46	45	51	52	52	46	41	57	59	53	52	56	58	59	55	49	64	63	57	57	61	64	66	62	58	70
	2160	61	52	51	53	56	55	49	44	60	67	58	57	59	62	62	57	52	67	71	65	63	64	66	69	65	61	73
	3456	68	58	56	57	58	57	53	46	63	73	65	62	63	64	65	62	55	70	77	69	67	68	68	71	68	64	76



## Generated noise MRP-6-I

Modell		$D_p = 125 \text{ Pa}$										$D_p = 250 \text{ Pa}$										$D_p = 500 \text{ Pa}$									
		Sound power $L_w$ [dB]										Sound power $L_w$ [dB]										Sound power $L_w$ [dB]									
$B \times H$ [mm]	$Q$ [m <sup>3</sup> /h]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w$ A[dBA]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w$ A[dBA]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w$ A[dBA]			
400 x 250	1080	53	46	43	48	51	50	44	39	55	58	52	49	52	56	57	53	48	62	62	58	54	57	61	64	62	56	69			
	1800	60	52	48	51	53	52	48	42	58	65	59	55	56	59	61	56	52	65	70	65	61	61	64	67	64	59	71			
	2880	67	58	53	54	56	55	51	44	61	73	64	61	60	61	63	59	54	68	76	71	65	64	67	71	67	62	75			
400 x 200	864	51	46	40	44	47	47	43	38	52	56	53	46	48	54	54	52	46	59	62	58	52	53	59	61	59	56	66			
	1440	59	52	46	47	50	50	47	41	55	64	58	52	52	55	57	55	51	62	68	65	57	57	62	64	63	58	69			
	2304	66	58	51	52	52	52	49	44	58	72	65	57	56	58	61	58	53	66	75	71	61	60	63	67	65	62	72			
300 x 200	648	54	44	43	45	49	49	44	39	54	59	49	49	51	55	56	53	48	61	65	55	54	56	60	63	61	57	68			
	1080	62	51	48	49	51	52	47	43	57	67	56	55	54	57	59	57	53	64	72	63	59	59	64	66	64	61	71			
	1728	69	55	53	52	54	56	51	45	60	74	63	59	58	61	62	59	55	67	78	67	64	64	65	59	68	64	72			
300 x 150	486	48	49	43	43	44	46	39	31	50	51	54	48	48	49	52	47	41	56	54	56	52	53	53	58	54	48	62			
	810	56	57	48	48	49	49	44	37	54	59	61	53	53	54	55	52	45	60	61	64	59	59	58	62	59	54	67			
	1296	62	64	55	53	53	52	49	41	59	65	67	59	59	58	58	56	51	64	67	71	63	62	62	65	63	59	70			
200 x 200	324	49	49	39	39	41	43	37	31	47	51	52	46	46	47	50	45	41	54	54	55	49	51	52	56	53	49	60			
	540	60	61	48	46	47	47	46	40	54	58	59	52	50	51	54	51	46	59	61	63	55	54	55	59	58	55	64			
	864	61	64	52	49	51	50	48	41	57	64	67	57	55	56	56	55	51	62	67	69	62	59	60	63	62	59	68			
200 x 150	216	48	47	38	36	39	42	36	29	46	51	50	43	42	44	48	45	39	52	54	54	46	46	48	54	52	47	58			
	360	55	55	43	42	45	46	41	36	51	58	58	49	46	48	51	49	45	56	61	61	53	52	53	58	56	54	63			
	576	62	62	49	46	48	47	46	41	54	64	66	54	53	53	55	54	51	61	67	68	59	56	58	60	61	59	67			

# MRP-6-I

## Radiated noise MRP-6-I

Modell		$D_p = 125 \text{ Pa}$										$D_p = 250 \text{ Pa}$										$D_p = 500 \text{ Pa}$									
		Sound power $L_w$ [dB]										Sound power $L_w$ [dB]										Sound power $L_w$ [dB]									
$B \times H$ [mm]	$Q$ [m <sup>3</sup> /h]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w$ A [dB(A)]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w$ A [dB(A)]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_w$ A [dB(A)]			
600 x 300	1944	42	41	31	28	25	21	15	16	31	47	48	38	33	32	28	24	27	38	52	53	43	38	37	34	32	35	44			
	3240	49	48	37	33	28	23	20	21	37	54	53	43	37	35	31	28	29	42	58	59	49	43	39	37	36	38	48			
	5184	55	53	42	36	31	25	23	23	41	61	59	48	42	36	33	32	33	47	65	65	54	46	42	40	38	41	53			
600 x 250	1620	40	40	29	26	23	18	15	17	30	45	48	35	32	29	25	23	26	37	49	53	40	35	33	32	31	35	42			
	2700	48	47	36	29	26	22	18	19	35	53	53	42	35	31	29	27	29	41	57	59	46	39	37	35	34	38	47			
	4320	55	53	41	33	28	23	22	23	40	62	61	47	39	34	32	30	32	47	65	67	52	43	39	38	38	41	53			
600 x 200	1296	38	41	26	22	21	15	<15	16	28	44	47	32	27	26	23	22	24	34	48	53	37	32	30	29	29	33	40			
	2160	46	18	32	26	23	19	17	19	30	52	54	37	31	28	25	25	28	40	55	59	43	36	33	32	33	35	45			
	3456	53	53	36	29	26	22	19	22	39	58	61	43	35	31	28	28	30	46	62	65	49	39	36	35	36	38	51			
500 x 300	1620	44	39	34	29	26	22	17	19	32	49	46	39	35	32	29	26	28	39	53	51	46	39	37	35	33	37	45			
	2700	52	47	39	33	29	25	21	22	37	58	54	46	39	35	32	29	32	44	61	59	51	43	40	38	37	39	49			
	4320	58	52	44	36	32	28	22	25	41	63	58	51	42	37	34	31	34	48	67	65	55	47	43	41	40	43	53			
500 x 250	1350	42	39	32	26	24	19	16	17	30	47	46	38	32	31	27	24	27	37	53	52	42	36	35	33	32	35	43			
	2250	50	46	37	31	26	22	19	20	35	55	52	44	36	33	31	27	30	42	61	58	48	41	37	36	35	39	47			
	3600	57	52	41	34	29	25	22	23	40	62	58	49	39	35	32	31	32	46	67	65	52	44	41	39	38	41	52			
500 x 200	1080	41	39	27	23	22	16	<15	16	28	46	45	35	28	27	25	22	26	35	50	51	39	34	32	31	31	34	41			
	1800	49	46	33	28	23	19	17	19	33	54	53	39	32	29	28	26	29	40	58	58	45	38	35	34	34	38	46			
	2880	56	52	38	32	26	23	21	22	39	61	58	44	36	32	31	29	31	45	65	64	51	40	37	36	36	39	51			
400 x 300	1296	46	38	35	32	27	23	18	21	34	52	45	42	36	34	31	26	28	40	56	49	47	42	39	38	34	37	46			
	2160	54	43	42	34	31	26	21	23	38	59	51	47	41	36	33	29	32	44	63	56	54	45	42	40	37	41	50			
	3456	61	49	47	38	33	28	24	26	43	66	56	52	45	39	36	33	35	49	70	62	57	48	43	42	41	43	54			

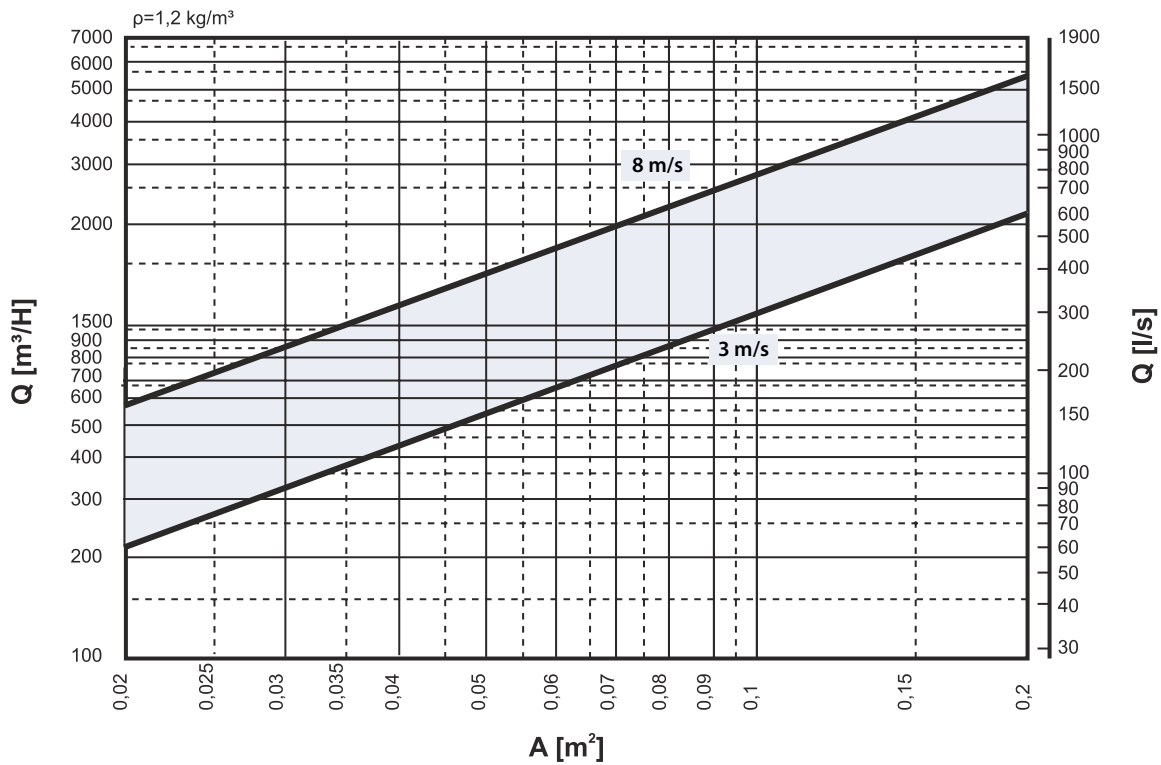


## Radiated noise MRP-6-I

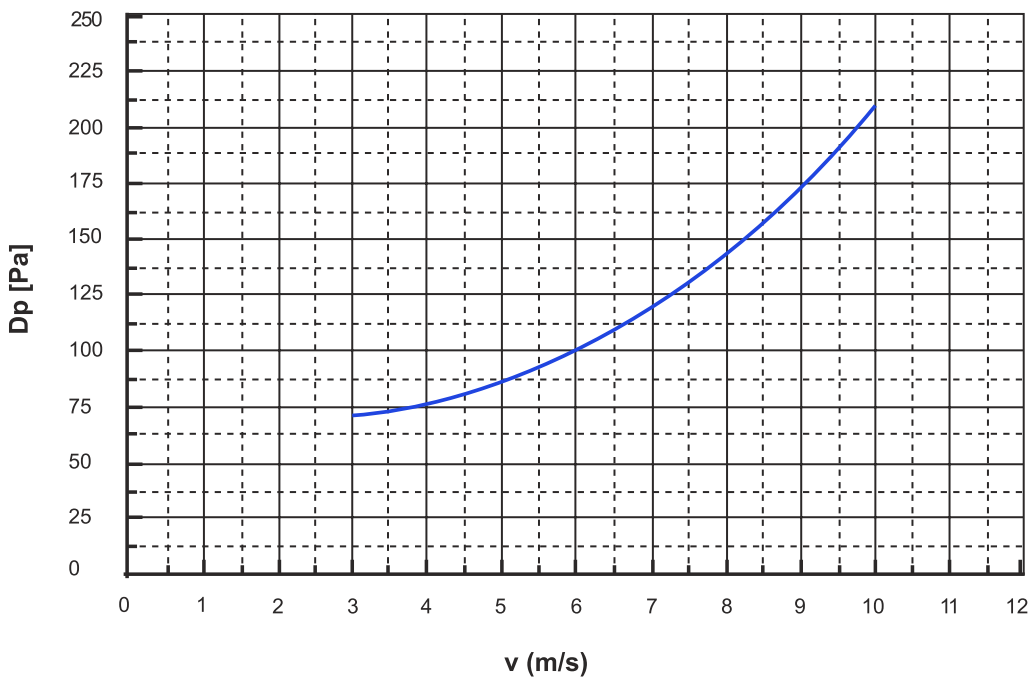
Modell		$D_p = 125 \text{ Pa}$										$D_p = 250 \text{ Pa}$										$D_p = 500 \text{ Pa}$									
		Sound power $L_w$ [dB]										Sound power $L_w$ [dB]										Sound power $L_w$ [dB]									
$B \times H$ [mm]	$Q$ [m <sup>3</sup> /h]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_{w,A}$ [dBA]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_{w,A}$ [dBA]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	$L_{w,A}$ [dBA]			
400 x 250	1080	45	38	33	28	26	21	17	18	32	50	44	39	33	31	28	25	28	38	55	49	45	38	36	35	33	37	44			
	1800	53	43	39	32	29	23	19	23	36	58	51	45	37	34	31	28	31	42	63	56	51	42	39	38	36	39	48			
	2880	59	51	43	35	30	26	22	25	41	58	51	45	38	34	32	28	32	43	69	62	55	46	42	41	39	43	53			
400 x 200	864	44	38	31	24	22	18	16	17	29	49	45	36	29	28	25	23	26	35	54	49	42	34	34	32	31	36	42			
	1440	52	43	35	28	25	21	19	20	34	57	51	41	33	30	28	27	31	40	61	56	48	38	36	35	35	39	46			
	2304	58	49	41	32	27	23	21	23	38	64	56	48	37	33	32	30	33	45	67	62	52	41	38	38	37	42	50			
300 x 200	648	48	36	33	26	24	21	16	20	31	53	41	38	32	30	27	25	28	37	57	48	44	36	35	34	33	37	43			
	1080	56	42	38	31	27	24	20	23	36	60	48	44	36	32	30	28	33	42	65	55	49	41	38	37	36	41	48			
	1728	62	47	43	33	29	27	23	25	40	67	54	50	39	35	33	31	35	47	71	59	54	45	41	40	39	44	52			
300 x 150	486	41	41	32	24	19	17	15	<15	29	44	45	38	29	24	23	19	21	34	46	48	42	34	28	29	26	28	39			
	810	48	49	39	29	24	21	15	17	36	51	53	43	34	29	26	23	25	40	53	56	48	39	33	33	32	34	45			
	1296	54	56	45	34	28	23	20	21	42	57	59	49	39	34	29	28	30	46	59	63	53	43	37	35	35	40	50			
200 x 200	324	42	41	29	20	16	15	<15	<15	28	44	44	36	26	21	21	18	20	33	47	47	39	32	26	27	25	29	37			
	540	48	48	36	27	22	19	15	16	35	51	52	41	31	26	24	23	26	39	54	54	46	35	30	30	31	34	43			
	864	55	55	42	31	26	21	19	20	41	57	59	47	36	31	27	28	30	45	60	62	51	40	35	34	34	39	49			
200 x 150	216	41	39	27	18	15	<15	<15	<15	27	44	42	32	23	19	19	17	18	30	47	46	36	28	23	24	23	28	35			
	360	48	47	33	24	19	16	<15	16	33	51	50	38	27	24	22	21	25	37	54	53	43	32	28	28	28	34	41			
	576	54	53	39	28	23	18	18	21	39	57	57	44	34	27	26	26	31	43	60	60	48	37	33	31	33	39	47			

## FLOW RATE RANGE IN RELATION TO DUCT CROSS SECTION

Flow rate calibration possible at air velocities from 3 to 8 m/s.



Minimum static pressure difference at the regulator.



### Legend:

$Q$ [m <sup>3</sup> /h or l/s]	flow rate
$v$ [m/s]	air velocity
$A$ [m <sup>2</sup> ]	effective outlet area
$D_p$ [Pa]	static pressure difference

## Installation

Rectangular controllers are flanged on both sides for connection with the standard 30 mm ventilation duct flange. The controller can be installed in horizontal, vertical or inclined mounted duct in a manner that the rotational axis of the dampe blade is always in a horizontal position. Also it is necessary to pay attention to the correct mounting direction shown with the air flow direction arrow on the controller. Required length of the straight duct section is  $L_{min} > 3 d_{ek}$  before and  $L_{min} > 1,5 d_{ek}$  after the the controller. If this lengths are smaller, deviations of the set flow rate can occure and the stated accuracy of the flow rate may not be achived; therefore, such installations are not recommended. Controllers are maintenance free.

