



## DAC-R

Rectangular constant flow regulator



## Description

The DAC-R type constant flow regulators (CAV) are designed for regulating the air flow in ventilation systems.

They can be installed in both horizontal and vertical positions.

To ensure correct operation, the regulator must be installed in a horizontal position with respect to the damper axis.

The flow rate is easily set by acting on the adjustment lever based on the flow rate scale.

Motorized flow regulators must be powered externally.

Regulators consist of a casing, a blade and an adjustment device.

The control device is placed in a box with a scale for adjusting the flow rate.

## General characteristics

- Maximum dimensions: from 200 x 100 to 600 x 600 mm
- Length: L = 350 mm
- Enclosure tightness according to EN 1751: Class C
- Flow rate from 250 to 12 000 m<sup>3</sup> /h
- Accuracy: 10-15% (on min / max positions 20%)

## Terms of use

Operation of the regulation is guaranteed under the following conditions:

- maximum air speed 10 m/s
- maximum operating pressure 1000 Pa
- the air flow must be stable over the entire section of the shutter.

The DAC-R regulator is designed for medium climate zones according to EN 60 721-3-3.

The regulators are intended for systems free of abrasive, chemical or adhesive particles.

The temperature range at the installation site must be between 0°C and 50°C.

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## Controls

The blade axis plain bearings are made of stainless steel or bronze. The control device includes springs and shock absorbers. On the top of the control box there is a lever with arrow and a scale for adjusting the flow rates.

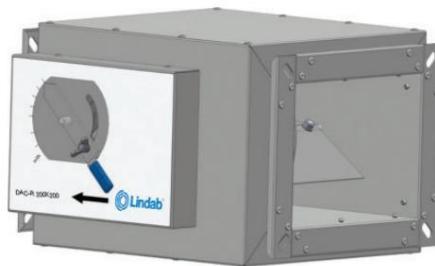
The regulators can be equipped with motors. The motors control the adjustment of the lever to adjust the flow rate on request. If the regulation is via motors, the operating temperature will be from 0°C to +50°C.

The DAC-R regulator can be supplied with isolation.

DAC-R without isolation

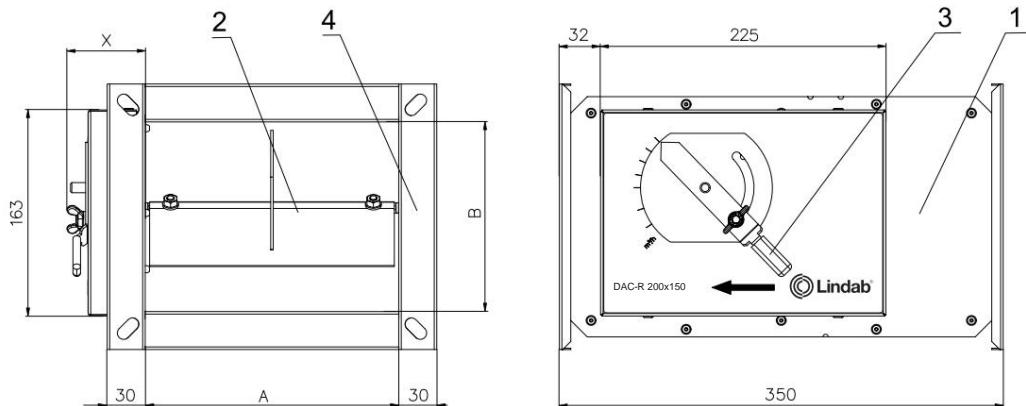


DAC-R with isolation

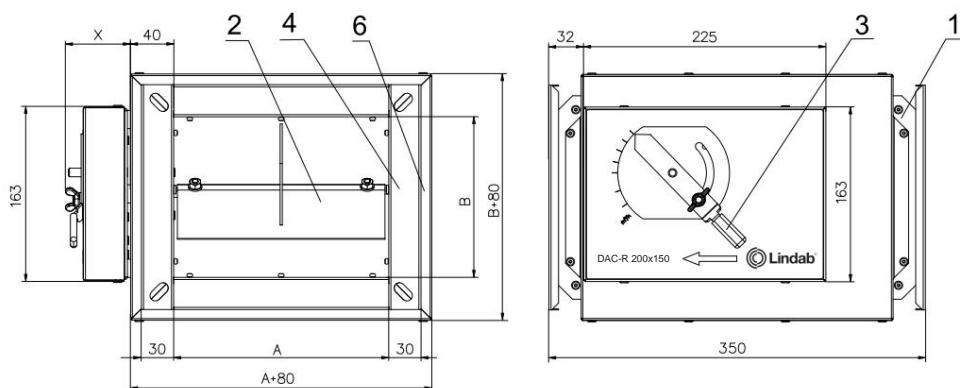


## Dimensions and weights

Rectangular CAV regulator - Manual control



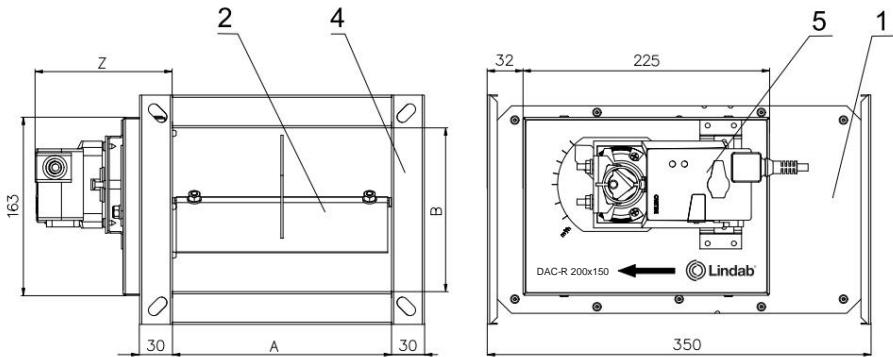
Rectangular CAV regulator - Manual control with insulation



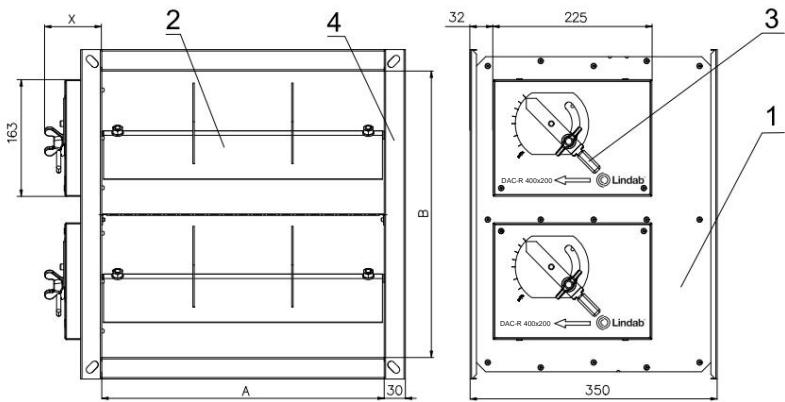
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Rectangular CAV regulator - Motorized control



Rectangular CAV regulator - Manual control B ⪻ 400 mm



## Composition:

1 Wrap

2 Shovel

3 Control lever

4 Flange

5 Engine

6 Covers for insulation

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Dimension A x B (mm)	X (mm)	Z (mm)	Weights (kg)				Typology motor	
			Typology					
			Manual		Motorized			
			Without insulation	With insulation	Without insulation	With insulation		
200 x 100	62	125	3.97	6.10	4.63	6.76	LM	
200 x 150	62	125	4.36	6.74	5.01	7.40	LM	
200 x 200	62	125	4.79	7.43	5.45	8.09	LM	
300 x 100	62	125	4.69	7.32	5.35	7.98	LM	
300 x 150	62	125	5.15	8.03	5.80	8.69	LM	
300 x 200	62	125	5.55	8.68	6.21	9.34	LM	
300 x 250	62	125	5.96	9.35	6.62	10.01	NM	
300 x 300	81	132	6.47	10.11	7.43	11.07	NM	
400 x 200	81	132	6.38	10.02	7.04	10.68	LM	
400 x 250	87	137	6.88	10.77	7.84	11.73	NM	
400 x 300	81	132	7.93	12.06	8.88	13.02	NM	
400 x 400	81*	132	10.70	15.34	12.61	5.25pm	NM	
500 x 200	81	132	7.19	11.32	8.15	12.28pm	NM	
500 x 250	87	137	8.77	1.15pm	9.73	14.11	NM	
500 x 300	120	170	9.95	2.58pm	11.10	15.74	SM	
500 x 400	81*	132	12.00pm	17.14	13.92	19.06	NM	
500 x 500	87*	137	3.17pm	20.81	17.08	22.72	NM	
600 x 200	120	170	9.60	2.23pm	10.75	3.39pm	SM	
600 x 250	120	170	10.26	3.15pm	11.42	4.31pm	SM	
600 x 300	120	170	10.88	16.02	12.04	17.18	SM	
600 x 400	120*	170	16.48	22.12	18.80	24.44	SM	
600 x 500	120*	170	17.81	23.95	8.13pm	26.27	SM	
600 x 600	120*	170	19.06	25.70	9.37pm	28.01	SM	

\* From B > 400, the regulator consists of two units coupled in a single body.

The allowable air flow rate is the sum of the flow rates for each regulator. In this case, the units, depending on the model, are equipped with two manual mechanisms or two motors.

# Constant flow regulator

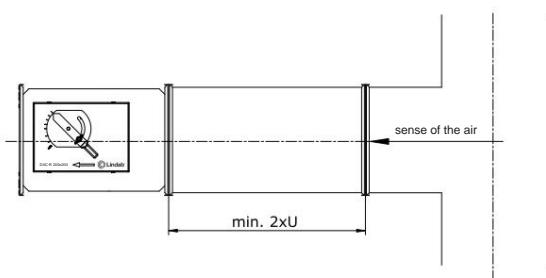
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## Installation

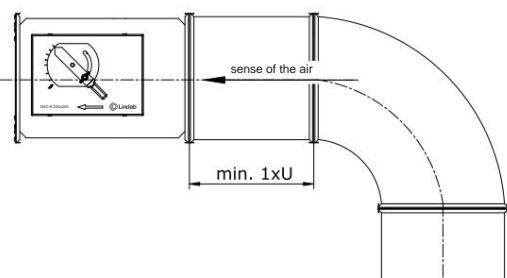
DAC-R regulators are designed for installation in a ventilation system.

They can be installed in a vertical and horizontal position. For correct DAC-R operation must be installed in a horizontal position with respect to the axis of the damper. The regulator must be installed in the direction of the air. An arrow on the adjustment box indicates the installation direction. For correct operation the air flow over the entire damper section must be stable. The distance between the damper and a fitting must be at least  $2xU$  (Tee) and  $1xU$  (bend). The regulator casing must not be deformed during installation.

Recommended distance from a tee fitting



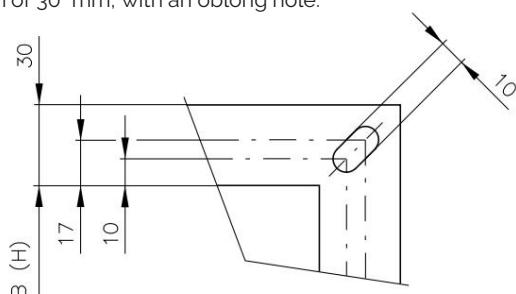
Recommended distance from a curve



U : diagonal of the regulator section.

## Flanges

The connection flanges of the DAC-R regulators have a length of 30 mm, with an oblong hole.



## Technical characteristics and parameters

### Flow rate ranges

Dimension A x B (mm)	Flow rate (m <sup>3</sup> /h)	
	Minimal	Maximum
200 x 100	250	700
200 x 150	400	1000
200 x 200	500	1300
300 x 100	400	1000
300 x 150	500	1500
300 x 200	600	2000
300 x 250	800	2500
300 x 300	1000	3000
400 x 200	900	2700
400 x 250	1200	3400
400 x 300	1500	4200
400 x 400	1800	5400

Dimension A x B (mm)	Flow rate (m <sup>3</sup> /h)	
	Minimal	Maximum
500 x 200	1100	3400
500 x 250	1500	4200
500 x 300	1800	4800
500 x 400	2200	6800
500 x 500	3000	8400
600 x 200	1500	4000
600 x 250	1800	5000
600 x 300	2100	6000
600 x 400	3000	8000
600 x 500	3600	10000
600 x 600	4200	12000

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Flow rates, accuracy and pressure difference

Dimension A x B (mm)	Scope (m <sup>3</sup> /h)	Accuracy max. (%)	Difference of pressure min. (Pa)
200 x 100	250	20	70
	400	15	70
	500	15	70
	700	10	80
200 x 150	400	20	70
	600	15	70
	800	15	70
	1000	10	80
200 x 200	500	20	70
	700	15	70
	1000	10	70
	1300	10	80
300 x 100	400	20	70
	600	15	70
	800	10	70
	1000	10	80
300 x 150	500	20	70
	800	15	70
	1000	10	70
	1500	10	70
300 x 200	600	20	70
	800	15	70
	1200	15	80
	2000	10	80
300 x 250	800	20	70
	1200	15	70
	1700	10	80
	2500	10	80
300 x 300	1000	20	70
	1500	15	70
	2000	15	80
	3000	10	90
400 x 200	900	20	70
	1500	15	70
	2000	10	70
	2700	10	70
400 x 250	1200	20	70
	1600	15	70
	2500	15	70
	3400	10	80
400 x 300	1500	20	70
	2500	15	70
	3500	15	70
	4200	10	90
400 x 400	1800	20	70
	3000	15	70
	4000	10	70
	5400	10	70

Dimension A x B (mm)	Scope (m <sup>3</sup> /h)	Accuracy max. (%)	Difference of pressure min. (Pa)
500 x 200	1100	20	70
	1500	15	70
	2500	15	70
	3400	10	80
500 x 250	1500	20	70
	2500	15	70
	3500	15	80
	4200	10	90
500 x 300	1800	20	70
	2500	15	70
	3500	15	80
	4800	10	90
500 x 400	2200	20	70
	3000	15	70
	5000	15	70
	6800	10	80
500 x 500	3000	20	70
	5000	15	70
	7000	15	80
	8400	10	90
600 x 200	1500	20	70
	2000	15	70
	3000	15	70
	4000	10	80
600 x 250	1800	20	70
	2500	15	70
	3500	15	80
	5000	10	80
600 x 300	2100	20	70
	3500	15	70
	4500	10	80
	6000	10	80
600 x 400	3000	20	70
	4000	15	70
	6000	15	70
	8000	10	80
600 x 500	3600	20	70
	5000	15	70
	7000	15	80
	10000	10	80
600 x 600	4200	20	70
	7000	15	70
	9000	10	80
	12000	10	80

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## Electrical characteristics

### Motor parameters

Engine type	Indication of position	Torque Weight	Nominal tension	Consumption		
				Running	Stopped	Sizing
Belimo LM 230A	NO	5 Nm 0.50 AC 100 ... 240 V, 50/60 Hz	5 Nm 0.60	1.5W	0.4W	4 VA
Belimo LM 230A-S	YES	AC 100 ... 240 V, 50/60 Hz		1.5W	0.4W	4 VA
Belimo NM 230A	NO	10 Nm 0.75 AC 100 ... 240 V, 50/60 Hz	10 Nm	2.5W	0.6W	5.5 VA
Belimo NM 230A-S	YES	0.85 AC 100 ... 240 V, 50/60 Hz		2.5W	0.6W	6 VA
Belimo LM 24A	NO	5 Nm 0.50 AC 24 V, 50/60 Hz; DC 24V		1W	0.2W	2 VA
Belimo LM 24A-S	YES	5 Nm 0.60 AC 24 V, 50/60 Hz; DC 24V		1W	0.2W	2 VA
Belimo NM 24A	NO	10 Nm 0.75 AC 24 V, 50/60 Hz; DC 24V		1.5W	0.2W	3.5 VA
Belimo NM 24A-S	YES	10 Nm 0.85 AC 24 V, 50/60 Hz; DC 24V		1.5W	0.2W	4 VA
Belimo LM 24A-SR	YES	5 Nm 0.85 AC 24 V, 50/60 Hz; DC 24V		1.0W	0.4W	2 VA
Belimo NM 24A-SR	YES	10 Nm 0.80 AC 24 V, 50/60 Hz; DC 24 V	20 Nm	2.0W	0.4W	4 VA
Belimo SM 230A	NO	1.05 AC 100 ... 240 V, 50/60 Hz		2.5W	0.6W	6 VA
Belimo SM 230A-S	YES	20 Nm 1.10 AC 100 ... 240 V, 50/60 Hz	20 Nm	2.5W	0.6W	6 VA
Belimo SM 24A	NO	1.00 AC 24 V, 50/60 Hz; DC 24V		2.0W	0.2W	4 VA
Belimo SM 24A-S	YES	20 Nm 1.05 AC 24 V, 50/60 Hz; DC 24V		2.0W	0.2W	4 VA
Belimo SM 24A-SR	YES	20 Nm 1.05 AC 24 V, 50/60 Hz; DC 24V		2.0W	0.4W	4 VA

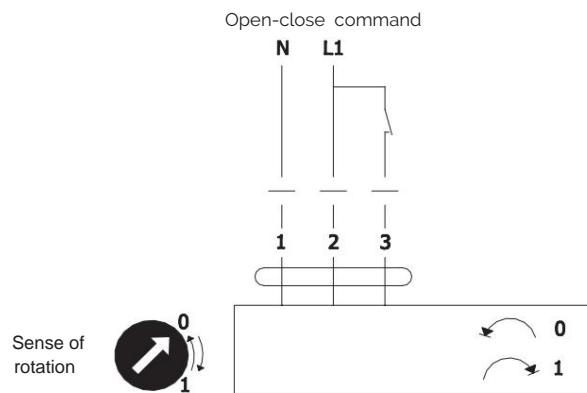
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## Wiring diagrams

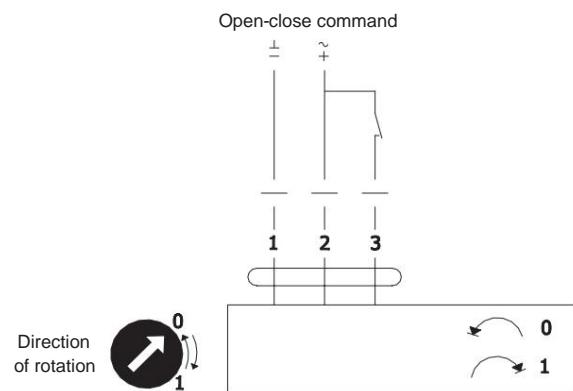
Belimo LM (NM, SM) 230A engine

- **ATTENTION :** supply voltage!
- Possibility of parallel connection of other drivers. Pay attention to the input power data.



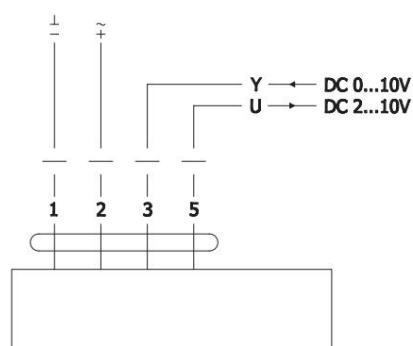
Belimo LM (NM, SM) 24A engine

- Connection via isolated transformer.
- Possibility of parallel connection of other drivers. Pay attention to the input power data.



Belimo NM (SM) 24A-SR engine

- Connection via isolated transformer.
- Possibility of parallel connection of other drivers. Pay attention to the input power data.

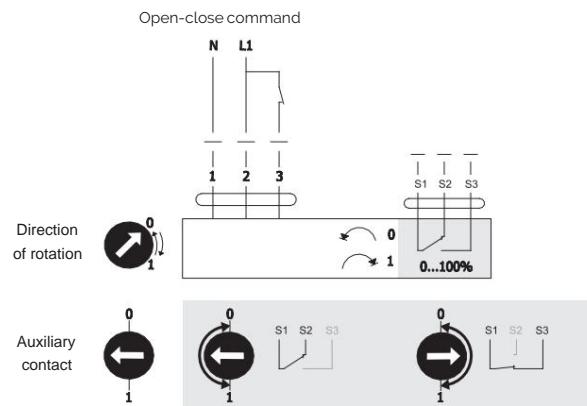


# Constant flow regulator

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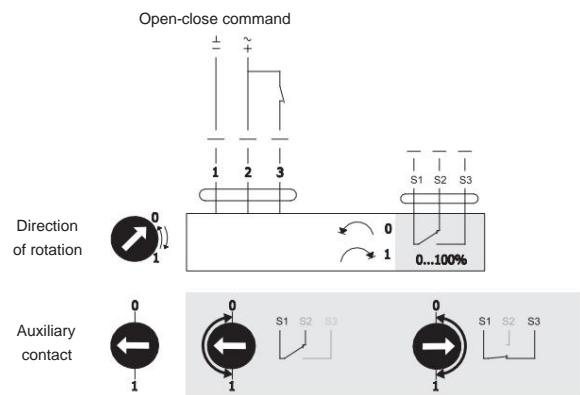
Belimo LM (NM, SM) 230A-S engine

- **ATTENTION : supply voltage!**
- Possibility of parallel connection of other drivers. Pay attention to the input power data.



Belimo LM (NM, SM) 24A-S engine

- Connection via isolated transformer.
- Possibility of parallel connection of other drivers. Pay attention to the input power data.



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## Pressure

### Pressure drops

$$\ddot{\gamma} p = \ddot{\gamma} \ddot{\gamma} \ddot{\gamma} \ddot{\gamma} \ddot{\gamma} \ddot{\gamma} \frac{V^2}{2}$$

$p$  (Pa) Pressure drop

$V$  (m/s) Air flow speed

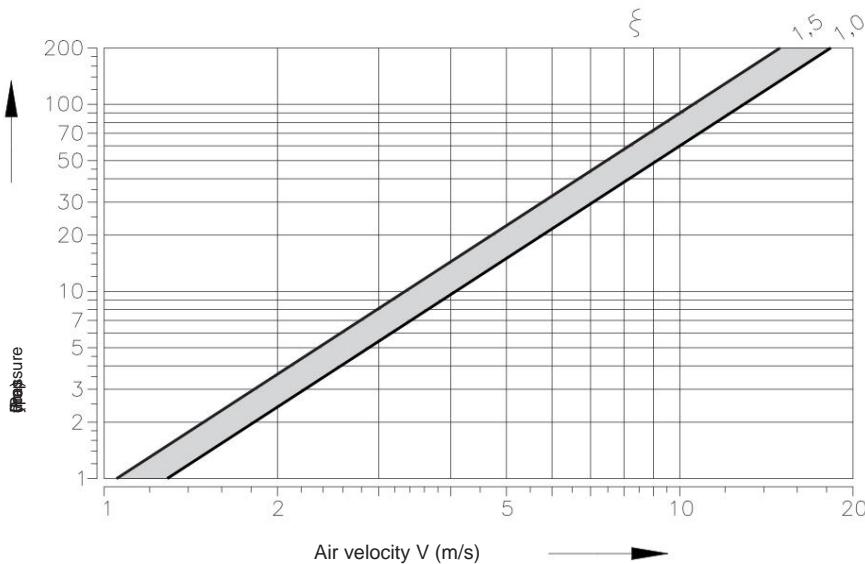
$\ddot{\gamma}$  (kg/m<sup>3</sup>) Air density

$\ddot{\gamma}$  (-) Regulator pressure drop coefficient (following table).

Dimension A x B	$\ddot{\gamma}$
200 x 100	1,386
200 x 150	1,379
200 x 200	1,372
300 x 100	1,379
300 x 150	1,368
300 x 200	1,358
300 x 250	1,347
300 x 300	1,337
400 x 200	1,344
400 x 250	1,330
400 x 300	1,316
400 x 400	1,288

Dimension A x B	$\ddot{\gamma}$
500 x 200	1,330
500 x 250	1,312
500 x 300	1,295
500 x 400	1,260
500 x 500	1,224
600 x 200	1,316
600 x 250	1,295
600 x 300	1,274
600 x 400	1,231
600 x 500	1,189
600 x 600	1,147

Value is valid for a completely open damper.



## Sound levels

### Noise generated in the system

The noise generated by the flow passing through the regulator is listed in the following tables.

$Q$  (m<sup>3</sup>/h) Flow rate

$L_{WA}$  (dB(A)) Total weighted sound power for filter

$\dot{p}_{st}$  (Pa) Differential pressure

$A_f m$  (Hz) Average frequencies per octave band

$L_w$  (dB/Okt.) Sound power per octave band

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Sound power in the system as a function of differential pressures

		ypst = 50 Pa								Lwa (dB(A))	
Dimension (mm)	Q (m³/h)	Lw (dB/Oct.)									
		fm (Hz)									
		63	125	250	500	1000	2000	4000	8000		
200 x 100	250	39	38	34	34	35	36	35	33	42	
	400	44	43	41	40	39	41	41	38	47	
	550	43	45	44	43	45	43	44	40	50	
	700	47	46	47	47	48	46	47	41	53	
200 x 150	400	42	41	37	37	37	38	38	35	44	
	600	44	43	42	43	42	42	42	39	49	
	800	45	46	45	45	46	45	46	43	52	
	1000	49	49	48	48	49	48	48	44	55	
200 x 200	500	42	41	37	37	37	38	38	35	44	
	765	45	44	42	41	40	42	42	39	48	
	1035	44	46	47	46	46	44	44	38	51	
	1300	47	46	47	48	48	47	47	39	54	
300 x 100	400	45	44	40	40	40	41	41	38	47	
	600	48	47	45	44	43	45	45	42	51	
	800	48	50	51	50	50	48	48	42	55	
	1000	51	50	51	52	52	51	51	43	58	
300 x 150	500	42	41	37	37	37	38	38	35	44	
	835	46	45	43	42	41	43	43	40	49	
	1165	47	49	50	49	49	47	47	41	54	
	1500	51	50	51	52	52	51	51	43	58	
300 x 200	600	44	43	39	39	39	40	40	37	46	
	1065	47	46	44	43	42	44	44	41	50	
	1535	47	49	50	49	49	47	47	41	54	
	2000	52	51	52	53	53	52	52	44	59	
300 x 250	800	45	44	40	40	40	41	41	38	47	
	1365	49	47	45	44	43	45	45	42	51	
	1935	48	50	51	50	50	48	48	42	55	
	2500	51	50	51	52	52	51	51	43	58	
300 x 300	1000	45	44	40	40	40	41	41	38	47	
	4665	48	47	45	44	43	45	45	42	51	
	2335	48	50	51	50	50	48	48	42	55	
	3000	51	50	51	52	52	51	51	43	58	
400 x 200	900	45	44	40	40	40	41	41	38	47	
	1500	47	46	44	44	42	44	44	41	50	
	2100	47	49	50	49	49	47	47	41	54	
	2700	50	49	50	51	51	50	50	42	57	
400 x 250	1200	46	45	41	41	40	42	42	39	48	
	1935	48	47	45	44	43	45	45	42	51	
	2665	47	49	50	49	49	47	47	41	54	
	3400	50	49	50	51	51	50	50	42	57	
400 x 300	1500	47	46	42	42	41	43	43	40	49	
	2400	49	48	46	45	44	46	46	43	52	
	3300	49	51	52	51	51	49	49	43	56	
	4200	53	52	53	54	54	53	53	45	60	
400 x 400	1800	48	48	44	44	43	45	45	42	51	
	3000	51	50	48	47	46	48	48	45	54	
	4200	50	52	53	52	52	50	50	44	57	
	5400	55	54	55	56	56	55	55	47	62	

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Dimension (mm)	Q (m <sup>3</sup> /h)	Lw = 50 Pa								Lwa (dB(A))	
		Lw (dB/Oct.)									
		63	125	250	500	1000	2000	4000	8000		
500 x 200	1100	43	42	38	38	37	39	39	36	45	
	1865	45	43	42	41	39	42	42	39	48	
	2635	44	46	47	46	46	44	44	38	51	
	3400	48	47	48	49	49	48	48	40	55	
500 x 250	1500	45	44	40	40	39	41	41	38	47	
	2400	48	47	45	44	42	45	45	42	51	
	3300	47	49	50	49	49	47	47	41	54	
	4200	49	48	49	50	50	49	49	41	56	
500 x 300	1800	46	45	41	41	40	42	42	39	48	
	2800	48	47	45	44	42	45	45	42	51	
	3800	48	50	51	50	50	48	48	42	55	
	4800	51	50	51	52	52	51	51	43	58	
500 x 400	2200	51	50	46	46	45	47	47	44	53	
	3735	54	53	51	50	47	51	51	48	57	
	5265	53	55	56	55	55	53	53	47	60	
	6800	56	55	56	57	57	56	56	48	63	
500 x 500	3000	53	52	48	48	48	49	49	46	55	
	4800	56	55	53	52	49	53	53	50	59	
	6600	55	57	58	57	57	55	55	49	62	
	8400	58	57	58	59	59	58	58	50	65	
600 x 200	1500	43	42	39	39	39	40	40	37	46	
	2335	47	45	43	42	40	43	43	40	49	
	3165	46	48	49	48	48	46	46	40	53	
	4000	49	48	49	50	50	49	49	41	56	
600 x 250	1800	45	45	41	41	41	42	42	39	48	
	2865	48	47	45	44	42	45	45	42	51	
	3935	47	49	50	49	49	47	47	41	54	
	5000	50	49	50	51	51	50	50	42	57	
600 x 300	2100	48	47	43	43	43	44	44	41	50	
	3400	49	48	46	45	44	46	46	43	52	
	4700	48	50	51	50	50	48	48	42	55	
	6000	51	50	51	52	52	51	51	43	58	
600 x 400	3000	51	50	46	46	46	47	47	44	53	
	4665	53	52	50	49	48	50	50	47	56	
	6335	53	55	56	55	55	53	53	47	60	
	8000	55	54	55	56	56	55	55	47	62	
600 x 500	3600	53	52	48	48	48	49	49	46	55	
	5735	56	55	53	52	51	53	53	50	59	
	7865	55	57	58	57	57	55	55	49	62	
	10000	58	57	58	59	59	58	58	50	65	
600 x 600	4200	56	55	51	51	51	52	52	49	58	
	6800	58	57	55	54	53	55	55	52	61	
	9400	57	59	60	59	59	57	57	51	64	
	12000	59	58	59	60	60	59	59	51	66	

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		üpst = 100 Pa								Lwa (dB(A))	
Dimension (mm)	Q (m³/h)	Lw (dB/Oct.)									
		fm (Hz)									
		63	125	250	500	1000	2000	4000	8000		
200 x 100	250	46	45	41	41	41	42	42	39	48	
	400	49	48	46	45	44	46	46	43	52	
	550	50	50	51	50	50	48	48	43	55	
	700	52	51	53	52	52	51	51	45	58	
200 x 150	400	46	45	42	42	42	43	43	39	49	
	600	50	49	47	46	45	47	46	43	53	
	800	51	51	52	51	51	49	49	43	56	
	1000	52	51	52	53	53	52	52	44	59	
200 x 200	500	48	47	43	43	43	44	44	41	50	
	765	50	49	47	46	45	47	47	44	53	
	1035	49	51	52	51	51	49	49	43	56	
	1300	52	51	52	53	53	52	52	44	59	
300 x 100	400	49	48	44	44	44	45	45	42	51	
	600	51	50	48	47	46	48	48	45	54	
	800	51	53	54	53	53	51	51	45	58	
	1000	54	53	54	55	55	54	54	46	61	
300 x 150	500	47	46	42	42	42	43	43	40	49	
	835	51	50	48	47	46	48	48	45	54	
	1165	52	54	55	54	54	52	52	46	59	
	1500	57	55	56	57	57	56	56	48	63	
300 x 200	600	50	49	45	45	45	46	46	43	52	
	1065	53	52	50	49	48	50	50	47	56	
	1535	53	55	56	55	55	53	53	47	60	
	2000	57	56	57	58	58	57	57	49	64	
300 x 250	800	51	50	46	46	46	47	47	44	53	
	1365	55	53	51	50	49	51	51	48	57	
	1935	53	55	56	55	55	53	53	47	60	
	2500	56	55	56	57	57	56	56	48	63	
300 x 300	1000	51	50	46	46	46	47	47	44	53	
	4665	54	53	51	50	49	51	51	48	57	
	2335	54	55	56	55	55	53	53	47	60	
	3000	56	55	56	57	57	56	56	48	63	
400 x 200	900	51	50	46	46	46	47	47	44	53	
	1500	53	52	50	49	48	50	50	47	56	
	2100	52	54	55	54	54	52	52	46	59	
	2700	55	54	55	56	56	55	55	47	62	
400 x 250	1200	52	51	47	47	47	48	48	45	54	
	1935	54	53	51	50	49	51	51	48	57	
	2665	53	55	56	55	55	53	53	47	60	
	3400	55	54	55	56	56	55	55	47	62	
400 x 300	1500	53	52	48	48	48	49	49	46	55	
	2400	55	54	52	51	50	52	52	49	58	
	3300	55	57	58	57	57	55	55	49	62	
	4200	59	58	59	60	60	59	59	51	66	
400 x 400	1800	55	54	50	50	50	51	51	48	57	
	3000	57	56	54	53	52	54	54	51	60	
	4200	56	58	59	58	58	56	56	50	63	
	5400	60	59	60	61	61	60	60	52	67	

# Constant flow regulator

DAC-R

Dimension (mm)	Q (m <sup>3</sup> /h)	Lw (dB/Oct.)								Lwa (dB(A))	
		fm (Hz)									
		63	125	250	500	1000	2000	4000	8000		
500 x 200	1100	49	48	44	44	44	45	45	42	51	
	1865	51	50	48	47	46	48	48	45	54	
	2635	50	52	53	52	52	50	50	44	57	
	3400	53	52	53	54	54	53	53	45	60	
500 x 250	1500	51	50	46	46	46	47	47	44	53	
	2400	53	52	50	49	48	50	50	47	56	
	3300	52	54	55	54	54	52	52	46	59	
	4200	54	53	54	55	55	54	54	46	61	
500 x 300	1800	52	51	47	47	47	48	48	45	54	
	2800	54	53	51	50	49	51	51	48	57	
	3800	53	55	56	55	55	53	53	47	60	
	4800	56	55	56	57	57	56	56	48	63	
500 x 400	2200	56	55	51	51	51	52	52	49	58	
	3735	59	58	56	55	54	56	56	53	62	
	5265	58	60	61	60	60	58	58	52	65	
	6800	61	60	61	62	62	61	61	53	68	
500 x 500	3000	58	57	53	53	53	54	54	51	60	
	4800	61	60	58	57	56	58	58	55	64	
	6600	60	62	63	62	62	60	60	54	67	
	8400	62	61	62	63	63	62	62	54	69	
600 x 200	1500	50	49	45	45	45	46	46	43	52	
	2335	53	51	49	48	47	49	49	46	55	
	3165	51	53	54	53	53	51	51	45	58	
	4000	54	53	54	55	55	54	54	46	61	
600 x 250	1800	52	51	47	47	47	48	48	45	54	
	2865	54	53	51	50	49	51	51	48	57	
	3935	54	55	56	55	55	53	53	47	60	
	5000	57	55	56	57	57	56	56	48	63	
600 x 300	2100	53	52	48	48	48	49	49	46	55	
	3400	55	54	52	51	50	52	52	49	58	
	4700	54	56	57	56	56	54	54	48	61	
	6000	56	55	56	57	57	56	56	48	63	
600 x 400	3000	57	56	52	52	52	53	53	50	59	
	4665	59	58	56	55	54	56	56	53	62	
	6335	58	60	61	60	60	58	58	52	65	
	8000	60	59	60	61	61	60	60	52	67	
600 x 500	3600	59	58	54	54	54	55	55	52	61	
	5735	61	60	58	57	56	58	58	55	64	
	7865	60	62	63	62	62	60	60	54	67	
	10000	63	62	63	64	64	63	63	55	70	
600 x 600	4200	61	60	56	56	56	57	57	54	63	
	6800	63	62	60	59	58	60	60	57	66	
	9400	62	64	65	64	64	62	62	56	69	
	12000	63	62	63	64	64	63	63	55	70	

# Constant flow regulator

DAC-R

		üpst = 250 Pa								Lwa (dB(A))	
Dimension (mm)	Q (m³/h)	Lw (dB/Oct.)									
		fm (Hz)									
200 x 100	250	54	53	49	49	49	50	50	47	56	
	400	57	56	54	53	52	54	54	51	60	
	550	56	58	59	58	58	56	56	52	63	
	700	59	58	59	60	60	59	59	53	66	
200 x 150	400	55	54	50	50	50	51	52	49	58	
	600	58	57	55	54	53	55	55	52	61	
	800	57	58	60	58	59	57	57	51	64	
	1000	60	59	61	61	61	60	59	53	67	
200 x 200	500	56	55	51	51	51	52	52	49	58	
	765	58	57	55	54	53	55	55	52	61	
	1035	57	59	60	59	59	57	57	51	64	
	1300	60	59	60	61	61	60	60	52	67	
300 x 100	400	56	55	51	51	51	52	52	49	58	
	600	58	57	55	54	53	55	55	52	61	
	800	57	59	60	59	59	57	57	51	64	
	1000	60	59	60	61	61	60	60	52	67	
300 x 150	500	56	55	51	51	51	52	52	49	58	
	835	59	58	56	55	54	56	56	53	62	
	1165	59	61	62	61	61	59	59	53	66	
	1500	62	61	62	63	63	62	62	54	69	
300 x 200	600	59	58	54	54	54	55	55	52	61	
	1065	61	60	58	57	56	58	58	55	64	
	1535	61	63	64	63	63	61	61	55	68	
	2000	64	63	64	65	65	64	64	56	71	
300 x 250	800	60	59	55	55	55	56	56	53	62	
	1365	62	61	59	58	57	59	59	56	65	
	1935	61	63	64	63	63	61	61	55	68	
	2500	64	63	64	65	65	64	64	56	71	
300 x 300	1000	61	60	56	56	56	57	57	54	63	
	4665	63	62	60	59	58	60	60	57	66	
	2335	62	64	65	64	64	62	62	56	69	
	3000	65	64	65	66	66	65	65	57	72	
400 x 200	900	61	60	56	56	56	57	57	54	63	
	1500	62	61	59	58	57	59	59	56	65	
	2100	61	63	64	63	63	61	61	55	68	
	2700	63	62	63	64	64	63	63	55	70	
400 x 250	1200	61	60	56	56	56	57	57	54	63	
	1935	63	62	60	59	58	60	60	57	66	
	2665	61	63	64	63	63	61	61	55	68	
	3400	63	62	63	64	64	63	63	55	70	
400 x 300	1500	62	61	57	57	57	58	58	55	64	
	2400	64	63	61	60	59	61	61	58	67	
	3300	64	65	66	65	65	63	63	57	70	
	4200	66	65	66	67	67	66	66	58	73	
400 x 400	1800	64	63	59	59	59	60	60	57	66	
	3000	66	65	63	62	61	63	63	60	69	
	4200	64	66	67	66	66	64	64	58	71	
	5400	67	66	67	68	68	67	67	59	74	

# Constant flow regulator

DAC-R

		Lw (dB/Oct.)								Lwa (dB(A))	
Dimension (mm)	Q (m³/h)	fm (Hz)									
		63	125	250	500	1000	2000	4000	8000		
500 x 200	1100	59	58	54	54	54	55	55	52	61	
	1865	61	60	58	57	56	58	58	55	64	
	2635	59	61	62	61	61	59	59	53	66	
	3400	61	60	61	62	62	61	61	53	68	
500 x 250	1500	61	60	56	56	56	57	57	54	63	
	2400	62	61	59	58	57	59	59	56	65	
	3300	60	62	63	62	62	60	60	54	67	
	4200	62	61	62	63	63	62	62	54	69	
500 x 300	1800	62	61	57	57	57	58	58	55	64	
	2800	63	62	60	59	58	60	60	57	66	
	3800	61	63	64	63	63	61	61	55	68	
	4800	63	62	63	64	64	63	63	55	70	
500 x 400	2200	65	64	60	60	60	61	61	58	67	
	3735	67	66	64	63	62	64	64	61	70	
	5265	66	68	69	68	68	66	66	60	73	
	6800	69	68	69	70	70	69	69	61	76	
500 x 500	3000	67	66	62	62	62	63	63	60	69	
	4800	69	68	66	65	64	66	66	63	72	
	6600	67	69	70	69	69	67	67	61	74	
	8400	69	68	69	70	70	69	69	61	76	
600 x 200	1500	59	58	54	54	54	55	55	52	61	
	2335	61	60	58	57	56	58	58	55	64	
	3165	59	61	62	61	61	59	59	53	66	
	4000	62	61	62	63	63	62	62	54	69	
600 x 250	1800	60	59	55	55	55	56	56	53	62	
	2865	63	61	59	58	57	59	59	56	65	
	3935	61	63	64	63	63	61	61	55	68	
	5000	64	63	64	65	65	64	64	56	71	
600 x 300	2100	62	61	57	57	57	58	58	55	64	
	3400	63	62	60	59	58	60	60	57	66	
	4700	61	63	64	63	63	61	61	55	68	
	6000	63	62	63	64	64	63	63	55	70	
600 x 400	3000	65	64	60	60	60	61	61	58	67	
	4665	67	66	64	63	62	64	64	61	70	
	6335	66	68	69	68	68	66	66	60	73	
	8000	68	67	68	69	69	68	68	60	75	
600 x 500	3600	67	66	62	62	62	63	63	60	69	
	5735	69	68	66	65	64	66	66	63	72	
	7865	68	70	71	70	70	68	68	62	75	
	10000	71	70	71	72	72	71	71	63	78	
600 x 600	4200	70	69	65	65	65	66	66	63	72	
	6800	71	70	68	67	66	68	68	65	74	
	9400	69	71	72	71	71	69	69	63	76	
	12000	70	69	70	71	71	70	70	62	77	

# Constant flow regulator

DAC-R

		üpst = 500 Pa								Lwa (dB(A))	
Dimension (mm)	Q (m³/h)	Lw (dB/Oct.)									
		fm (Hz)									
		63	125	250	500	1000	2000	4000	8000		
200 x 100	250	60	59	55	55	55	56	56	53	62	
	400	63	62	60	59	58	60	60	57	66	
	550	64	63	65	64	64	62	62	59	69	
	700	66	65	66	67	67	66	65	61	73	
200 x 150	400	62	61	57	57	56	58	57	54	64	
	600	64	63	61	60	59	60	60	57	67	
	800	63	65	66	65	65	63	63	57	70	
	1000	66	65	67	67	67	66	66	58	73	
200 x 200	500	62	61	57	57	57	58	58	55	64	
	765	65	64	62	61	60	62	62	59	68	
	1035	64	66	67	66	66	64	64	58	71	
	1300	67	66	67	68	68	67	67	59	74	
300 x 100	400	62	61	57	57	57	58	58	55	64	
	600	64	63	61	60	59	61	61	58	67	
	800	63	65	66	65	65	63	63	57	70	
	1000	66	65	66	67	67	66	66	58	73	
300 x 150	500	62	61	57	57	57	58	58	55	64	
	835	65	64	62	61	60	62	62	59	68	
	1165	65	67	68	67	67	65	65	59	72	
	1500	68	67	68	69	69	68	68	60	75	
300 x 200	600	65	64	60	60	60	61	61	58	67	
	1065	68	67	65	64	63	65	65	62	71	
	1535	67	69	70	69	69	67	67	61	74	
	2000	70	69	70	71	71	70	70	62	77	
300 x 250	800	67	66	62	62	62	63	63	60	69	
	1365	69	68	66	65	64	66	66	63	72	
	1935	68	70	71	70	70	68	68	62	75	
	2500	71	70	71	72	72	71	71	63	78	
300 x 300	1000	68	67	63	63	63	64	64	61	70	
	4665	70	69	67	66	65	67	67	64	73	
	2335	69	71	72	71	71	69	69	63	76	
	3000	72	71	72	73	73	72	72	64	79	
400 x 200	900	68	67	63	63	63	64	64	61	70	
	1500	70	69	67	66	65	67	67	64	73	
	2100	68	70	71	70	70	68	68	62	75	
	2700	70	69	70	71	71	70	70	62	77	
400 x 250	1200	67	66	62	62	65	63	63	60	70	
	1935	70	69	67	66	66	67	67	64	73	
	2665	68	70	71	70	66	68	68	62	75	
	3400	70	69	70	71	71	70	70	62	77	
400 x 300	1500	68	67	63	63	66	64	64	61	71	
	2400	71	70	68	67	67	68	68	65	74	
	3300	69	71	72	71	67	69	69	63	76	
	4200	71	70	71	72	72	71	71	63	78	
400 x 400	1800	71	69	65	65	68	66	66	63	73	
	3000	73	72	70	69	69	70	70	67	76	
	4200	71	73	74	73	69	71	71	65	78	
	5400	73	72	73	74	74	73	73	65	80	

# Constant flow regulator

DAC-R

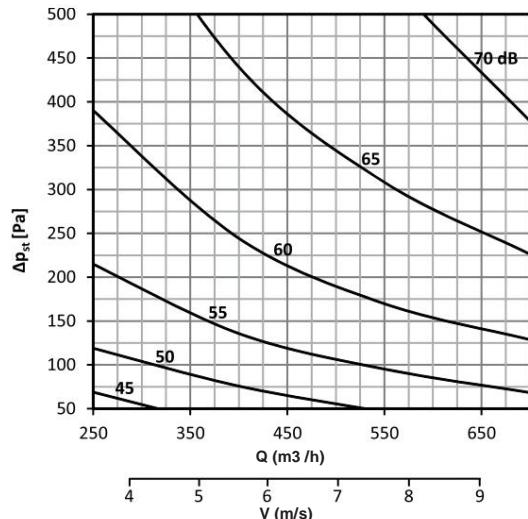
		üpst = 500 Pa								Lwa (dB(A))	
Dimension (mm)	Q (m³/h)	Lw (dB/Oct.)									
		fm (Hz)									
		63	125	250	500	1000	2000	4000	8000		
500 x 200	1100	66	65	61	61	64	62	62	59	69	
	1865	67	66	64	63	66	64	64	61	71	
	2635	66	68	69	68	65	66	66	60	73	
	3400	69	68	69	70	66	69	69	61	75	
500 x 250	1500	67	66	62	62	65	63	63	60	70	
	2400	68	67	65	64	67	65	65	62	72	
	3300	67	69	70	69	66	67	67	61	74	
	4200	70	69	70	71	67	70	70	62	76	
500 x 300	1800	68	67	63	63	66	64	64	61	71	
	2800	69	68	66	65	68	66	66	63	73	
	3800	68	70	71	70	67	68	68	62	75	
	4800	71	70	71	72	68	71	71	63	77	
500 x 400	2200	70	69	65	65	68	66	66	63	73	
	3735	72	71	69	68	71	69	69	66	76	
	5265	72	74	75	74	74	72	72	66	79	
	6800	76	75	76	77	74	76	76	68	82	
500 x 500	3000	74	73	69	69	68	70	70	67	76	
	4800	75	74	72	71	74	72	72	69	79	
	6600	74	76	77	76	76	74	74	68	81	
	8400	77	76	77	78	75	77	77	69	83	
600 x 200	1500	66	65	61	61	60	62	62	59	68	
	2335	67	66	64	63	66	64	64	61	71	
	3165	66	68	69	68	68	66	66	60	73	
	4000	70	69	70	71	68	70	70	62	76	
600 x 250	1800	67	66	62	62	61	63	63	60	69	
	2865	68	67	65	64	67	65	65	62	72	
	3935	68	70	71	70	70	68	68	62	75	
	5000	71	70	71	72	72	71	71	63	78	
600 x 300	2100	68	67	63	63	63	64	64	61	70	
	3400	69	68	66	65	64	66	66	63	72	
	4700	67	69	70	69	69	67	67	61	74	
	6000	69	68	69	70	70	69	69	61	76	
600 x 400	3000	72	71	67	67	67	68	68	65	74	
	4665	74	73	71	70	69	71	71	68	77	
	6335	73	75	76	75	75	73	73	67	80	
	8000	75	74	75	76	76	75	75	67	82	
600 x 500	3600	74	73	69	69	69	70	70	67	76	
	5735	75	74	72	71	70	72	72	69	78	
	7865	74	76	77	76	76	74	74	68	81	
	10000	77	76	77	78	78	77	77	69	84	
600 x 600	4200	76	75	71	71	71	72	72	69	78	
	6800	77	76	74	73	72	74	74	71	80	
	9400	75	77	78	77	77	75	75	69	82	
	12000	76	75	76	77	77	76	76	68	83	

# Constant flow regulator

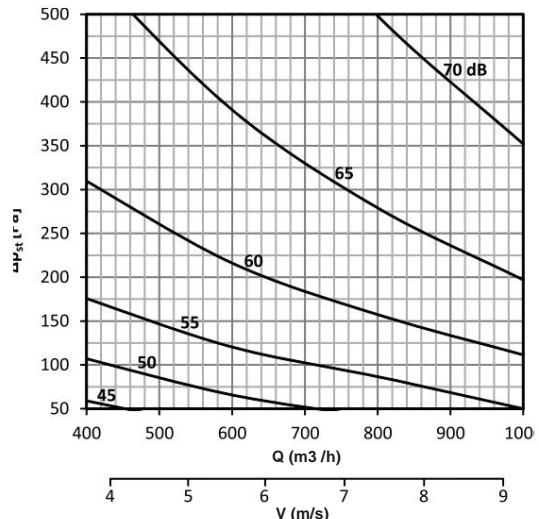
DAC-R

Sound power L<sub>wa</sub> (dB(A)) regenerated in the system

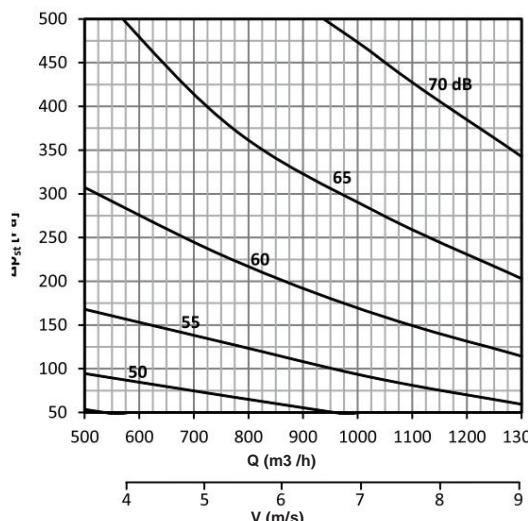
DAC-R 200 x 100



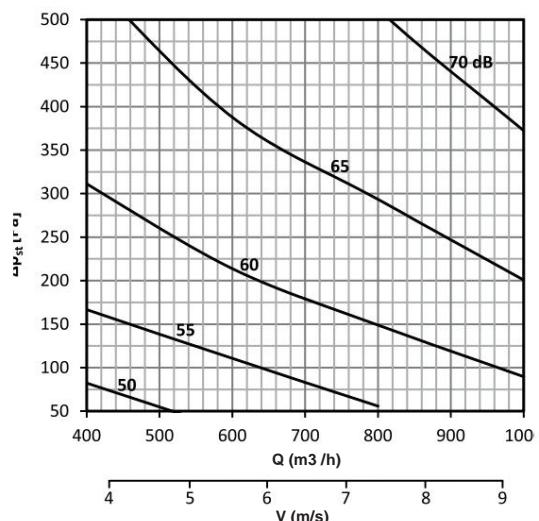
DAC-R 200 x 150



DAC-R 200 x 200

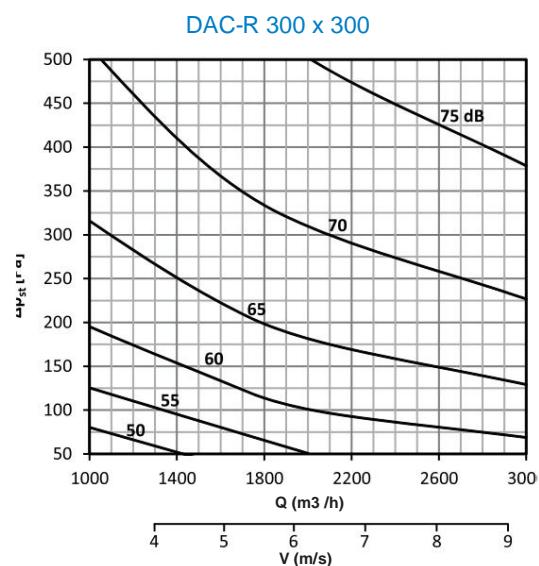
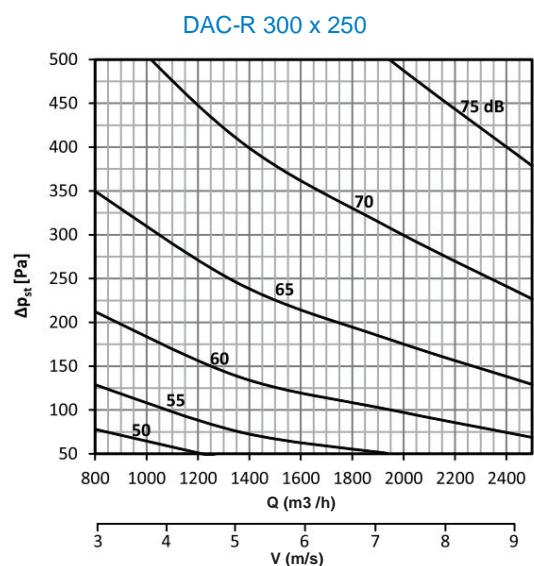
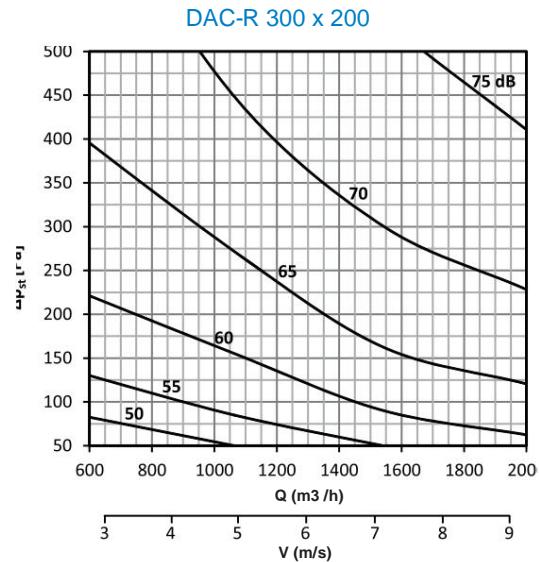
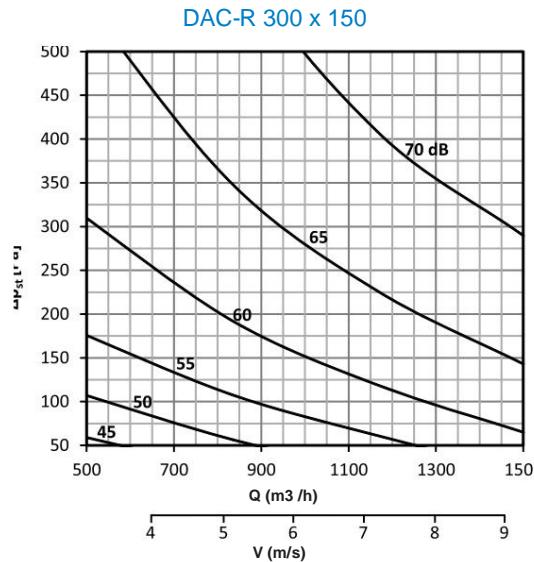


DAC-R 300 x 100



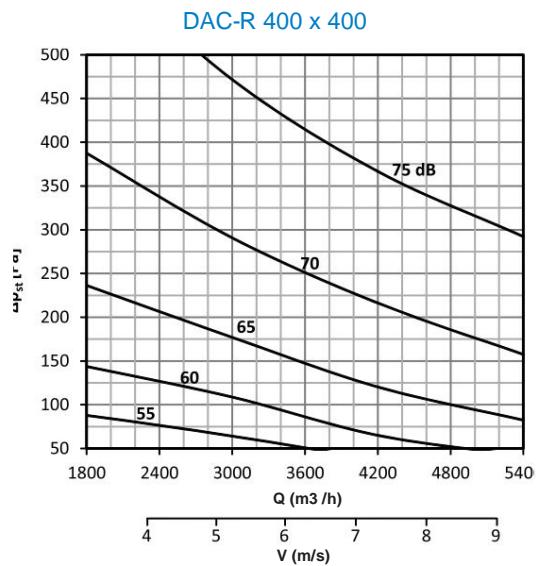
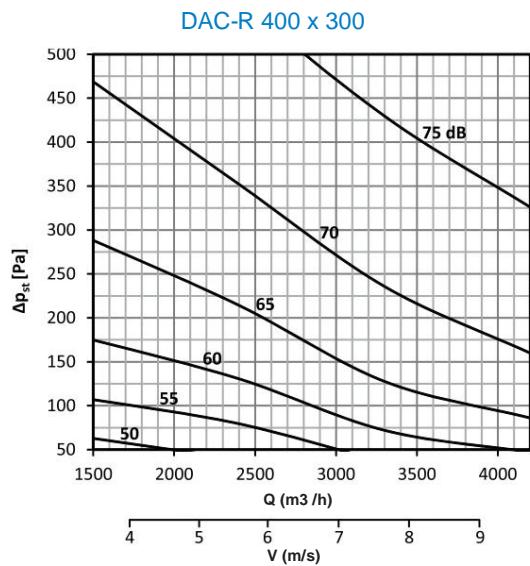
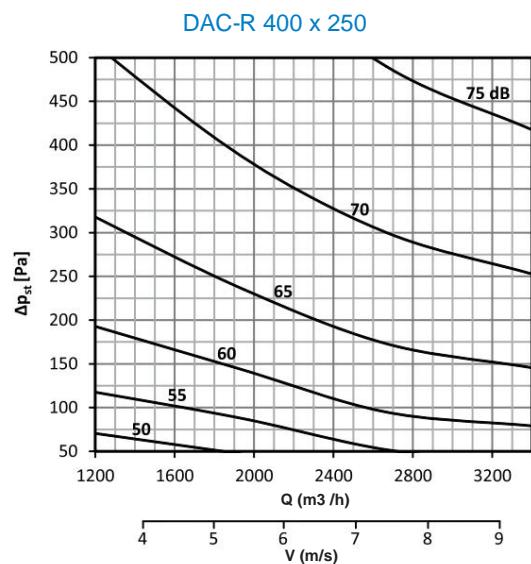
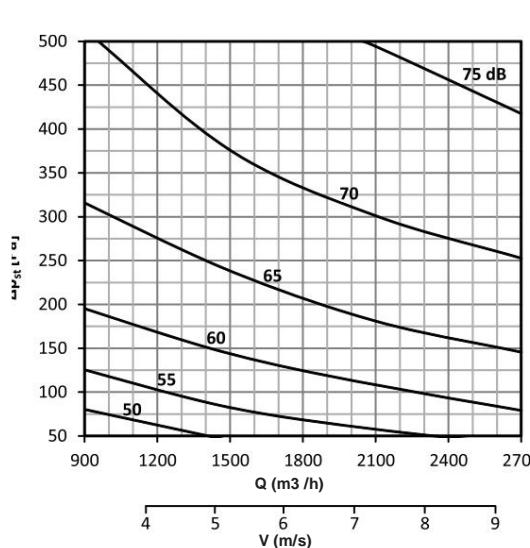
# Constant flow regulator

DAC-R



# Constant flow regulator

DAC-R

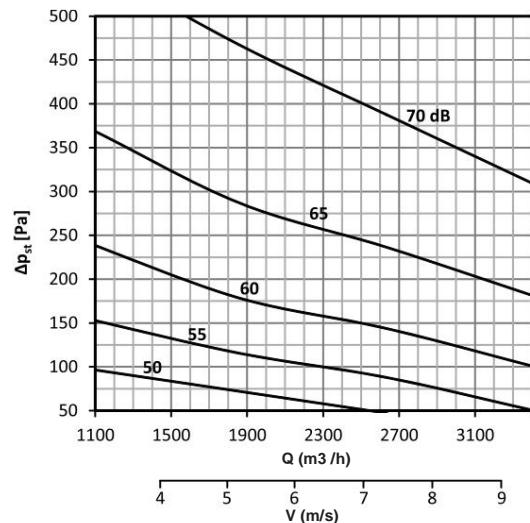


DAC-R 400 x 200

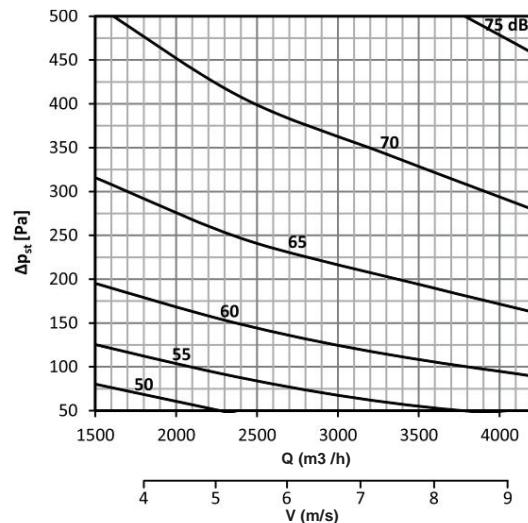
# Constant flow regulator

DAC-R

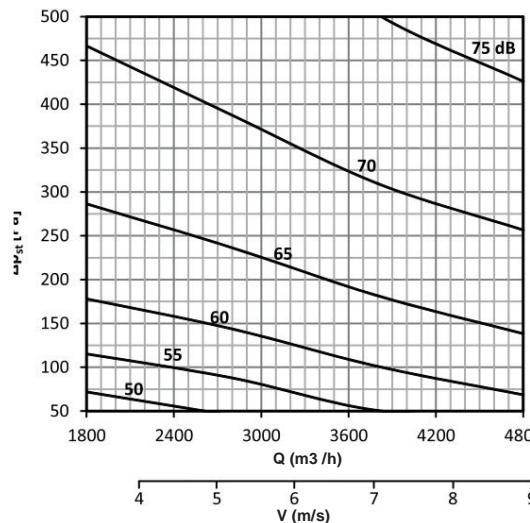
DAC-R 500 x 200



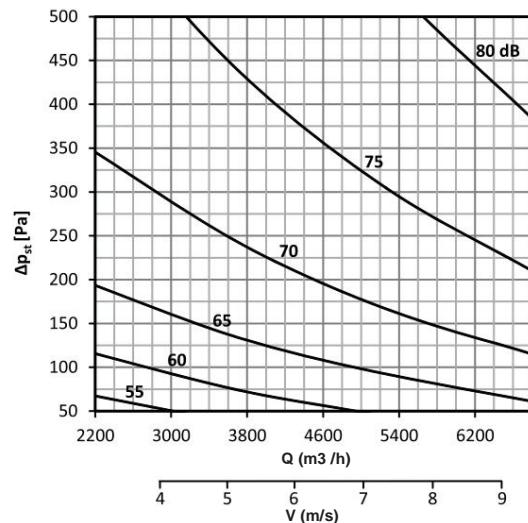
DAC-R 500 x 250



DAC-R 500 x 300

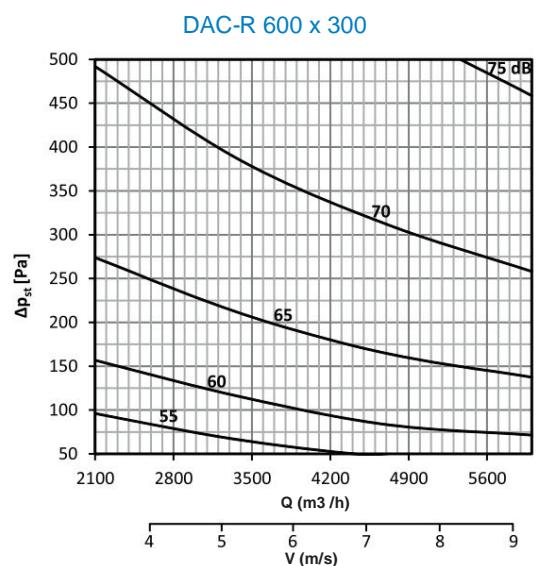
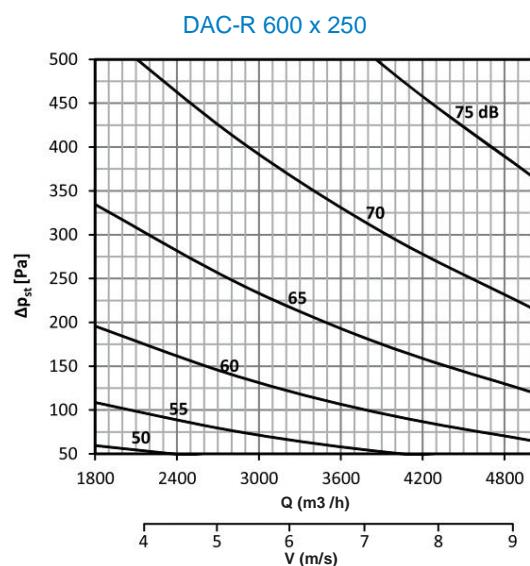
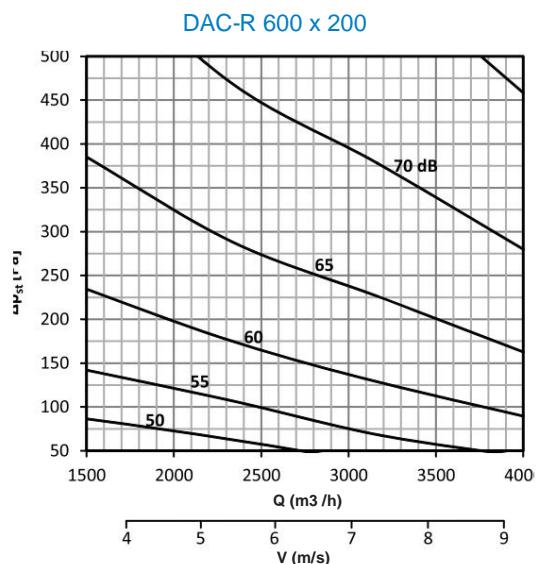
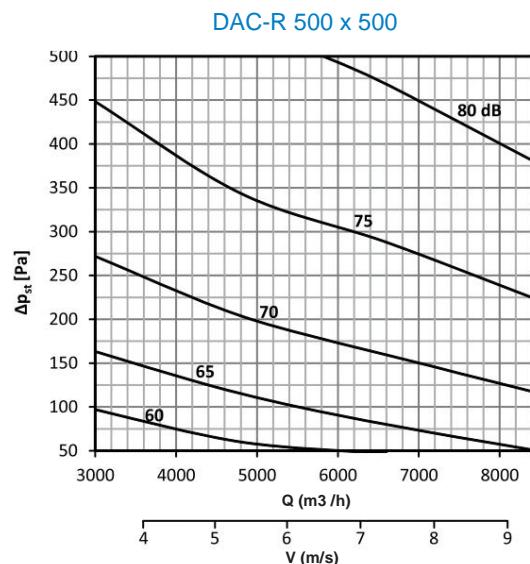


DAC-R 500 x 400



# Constant flow regulator

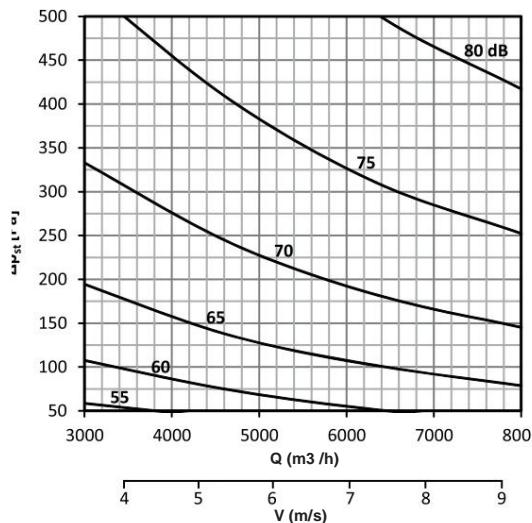
DAC-R



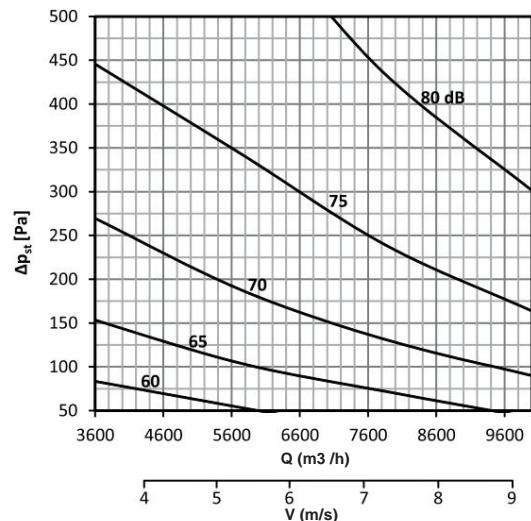
# Constant flow regulator

DAC-R

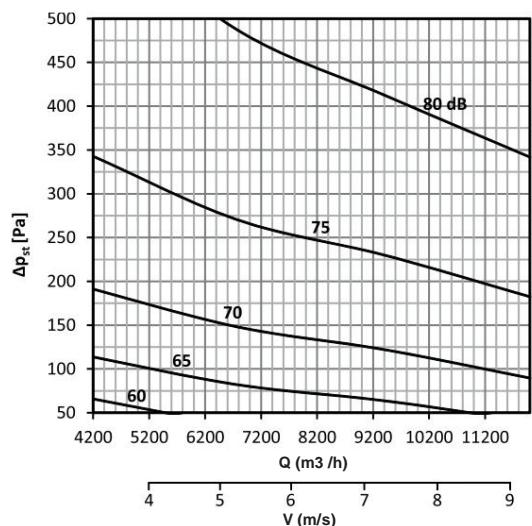
DAC-R 600 x 400



DAC-R 600 x 500



DAC-R 600 x 600



# Constant flow regulator

DAC-R

## Radiated Noise - Without Isolation

The noise radiated by the regulators is listed in the table below.

Q (m<sup>3</sup>/h) Flow rate

Lwa (dB(A)) Total weighted sound power for filter A

ŷpst (Pa) Differential pressure

## Radiated sound power - Without insulation

Dimension	Q (m <sup>3</sup> /h)	Lwa (dB(A))			
		ŷpst = 50 Pa 33	ŷpst = 100 Pa	ŷpst = 250 Pa 39 48	ŷpst = 500 Pa
200 x 100	250				55
	400	38	43	51	57
	550	42	46	53	59
	700	45	49	55	61
200 x 150	400	34	39	46	52
	600	38	42	49	55
	800	41	45	52	58
	1000	43	48	55	61
200 x 200	500	35	40	47	53
	765	40	44	51	56
	1035	43	47	54	59
	1300	45	49	56	62
300 x 100	400	36	40	46	52
	600	40	44	50	56
	800	43	47	53	59
	1000	45	49	55	61
300 x 150	500	35	39	46	52
	835	40	44	51	57
	1165	44	48	54	60
	1500	47	51	57	63
300 x 200	600	35	40	48	54
	1065	39	44	52	58
	1535	43	48	55	61
	2000	46	51	58	64
300 x 250	800	36	41	49	56
	1365	40	45	53	60
	1935	44	49	56	63
	2500	47	52	59	66
300 x 300	1000	36	41	49	57
	4665	40	45	53	61
	2335	44	49	57	64
	3000	48	53	60	67
400 x 200	900	35	40	48	55
	1500	40	45	52	59
	2100	43	48	55	61
	2700	45	50	57	63
400 x 250	1200	38	43	50	56
	1935	42	47	54	60
	2665	45	50	57	63
	3400	47	52	59	65
400 x 300	1500	39	44	52	58
	2400	43	48	56	62
	3300	46	51	59	65
	4200	48	53	61	67

# Constant flow regulator

DAC-R

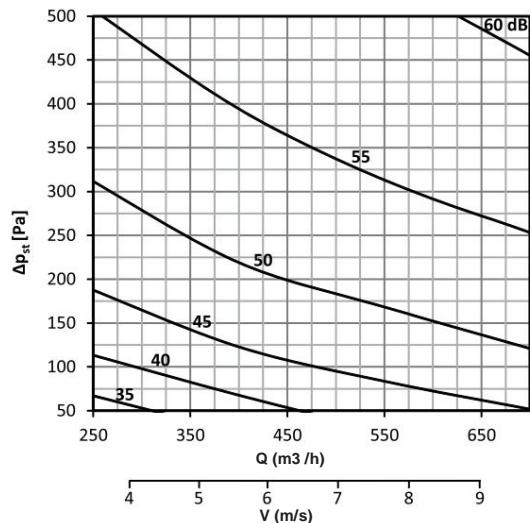
Dimension	Q (m <sup>3</sup> /h)	L <sub>WA</sub> (dB(A))			
		ÿpst = 50 Pa	ÿpst = 100 Pa	ÿpst = 250 Pa	ÿpst = 500 Pa
400 x 400	1800	43	48	56	62
	3000	46	51	59	65
	4200	48	53	61	67
	5400	50	55	63	69
500 x 200	1100	35	40	48	55
	1865	40	45	52	58
	2635	43	48	55	61
	3400	47	51	58	63
500 x 250	1500	36	41	49	56
	2400	40	45	53	60
	3300	43	48	56	63
	4200	46	52	59	66
500 x 300	1800	38	43	51	57
	2800	42	47	55	61
	3800	44	49	58	64
	4800	47	52	60	66
500 x 400	2200	42	46	54	60
	3735	46	50	57	63
	5265	49	53	60	66
	6800	52	56	63	69
500 x 500	3000	45	50	57	63
	4800	48	53	60	66
	6600	51	56	63	68
	8400	55	59	65	70
600 x 200	1500	35	40	48	55
	2335	39	44	52	59
	3165	42	47	55	62
	4000	45	50	58	65
600 x 250	1800	36	42	50	56
	2865	40	45	53	60
	3935	43	48	56	63
	5000	46	51	59	66
600 x 300	2100	38	43	51	57
	3400	42	47	54	60
	4700	45	50	57	63
	6000	48	53	60	66
600 x 400	3000	40	45	53	60
	4665	44	49	56	63
	6335	47	52	59	65
	8000	51	55	61	67
600 x 500	3600	43	48	56	62
	5735	46	51	59	65
	7865	48	53	61	67
	10000	51	56	63	69
600 x 600	4200	45	50	57	63
	6800	48	53	60	66
	9400	51	55	62	68
	12000	53	57	64	70

# Constant flow regulator

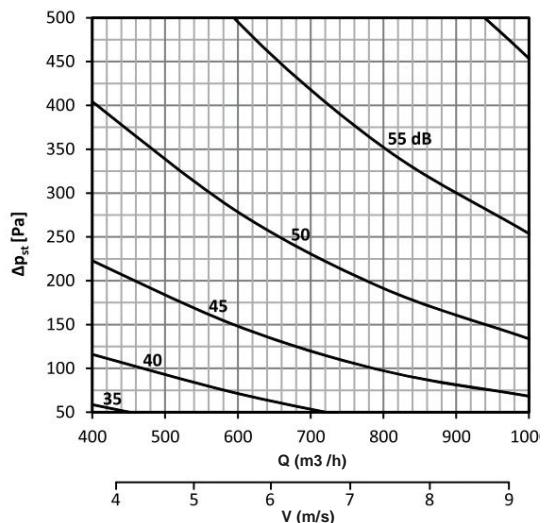
DAC-R

Radiated sound power L<sub>wa</sub> (dB(A)) - Without insulation

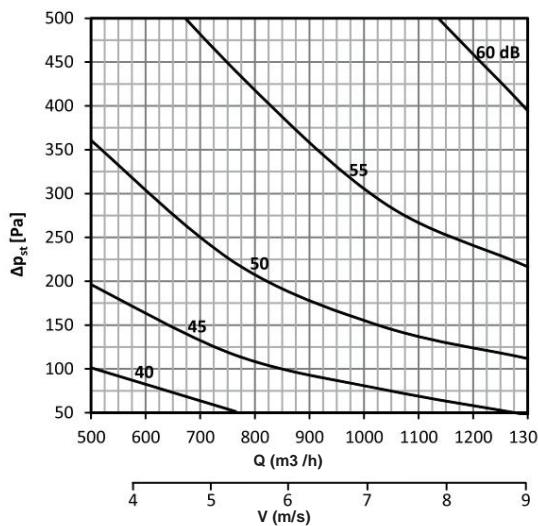
DAC-R 200 x 100



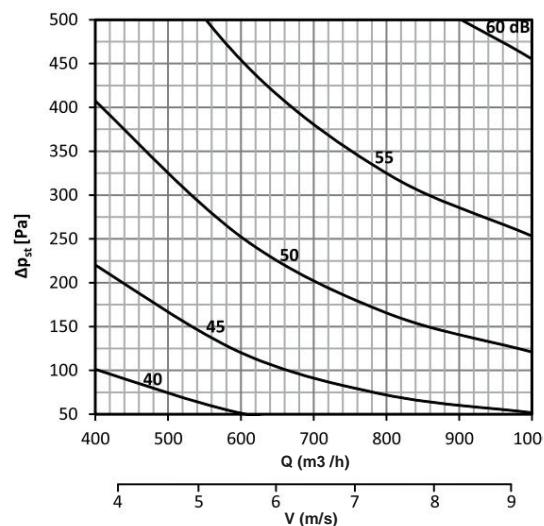
DAC-R 200 x 150



DAC-R 200 x 200



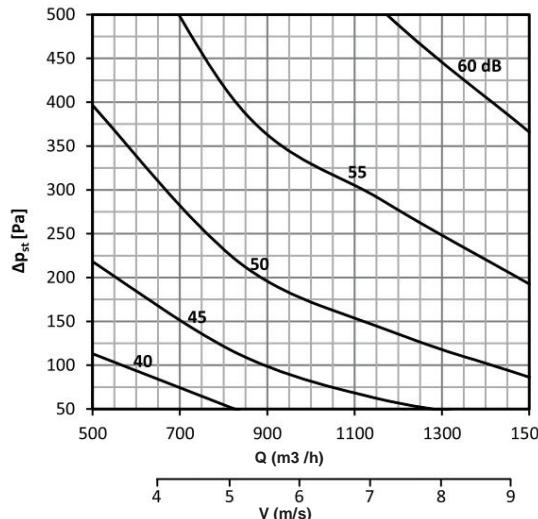
DAC-R 300 x 100



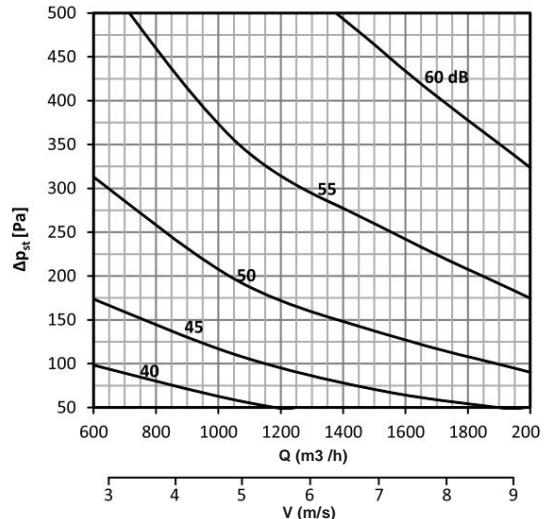
# Constant flow regulator

DAC-R

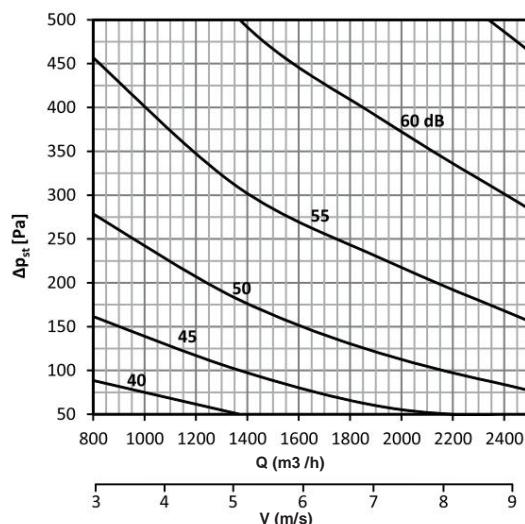
DAC-R 300 x 150



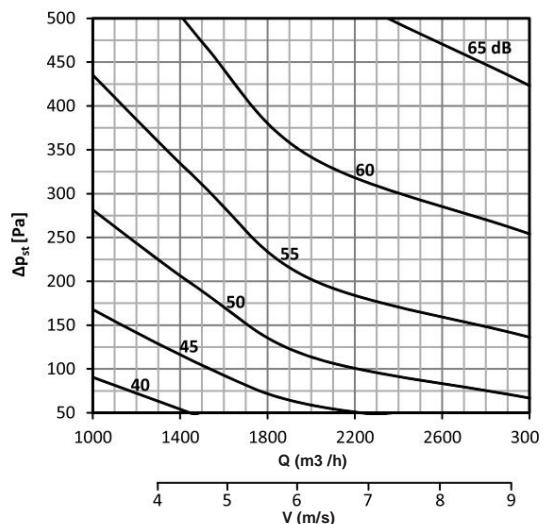
DAC-R 300 x 200



DAC-R 300 x 250



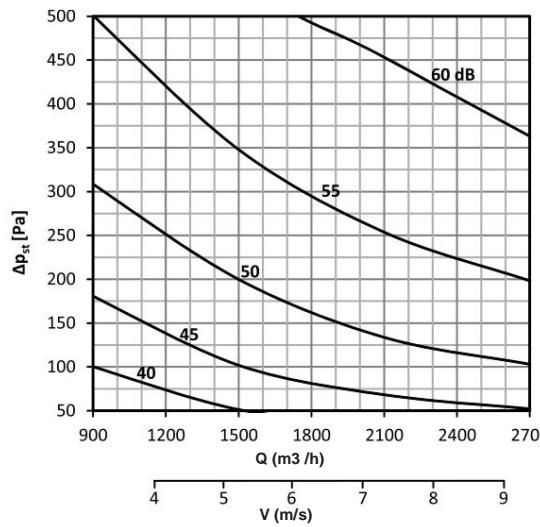
DAC-R 300 x 300



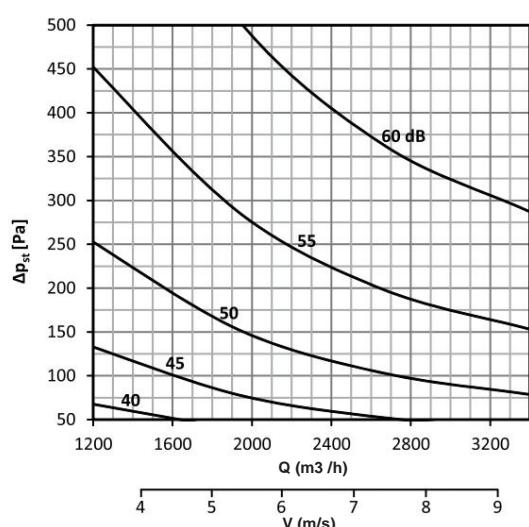
# Constant flow regulator

DAC-R

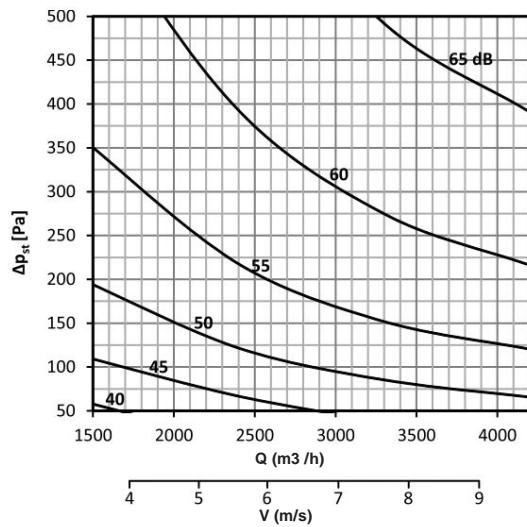
DAC-R 400 x 200



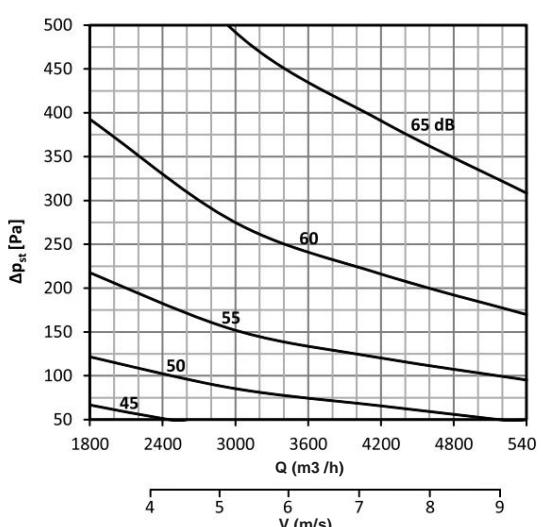
DAC-R 400 x 250



DAC-R 400 x 300



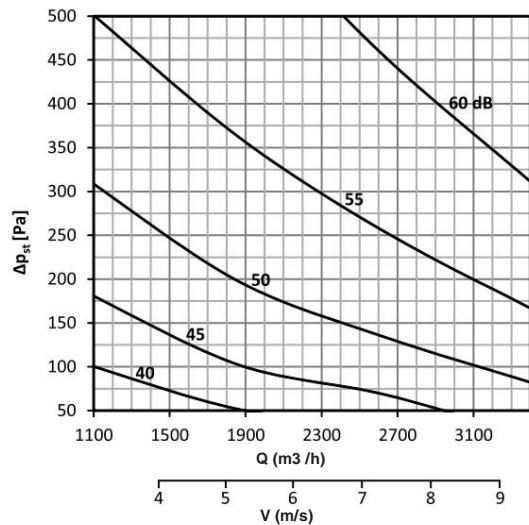
DAC-R 400 x 400



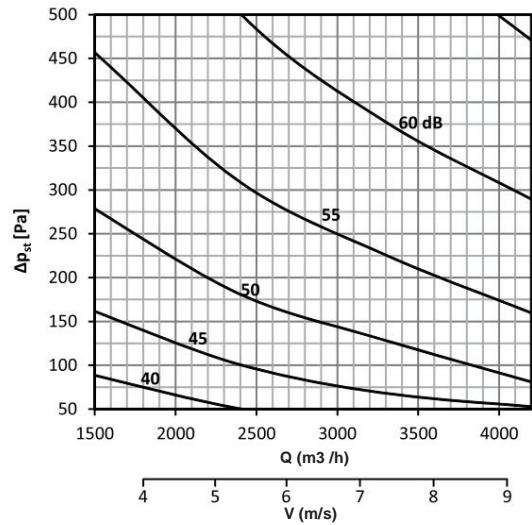
# Constant flow regulator

DAC-R

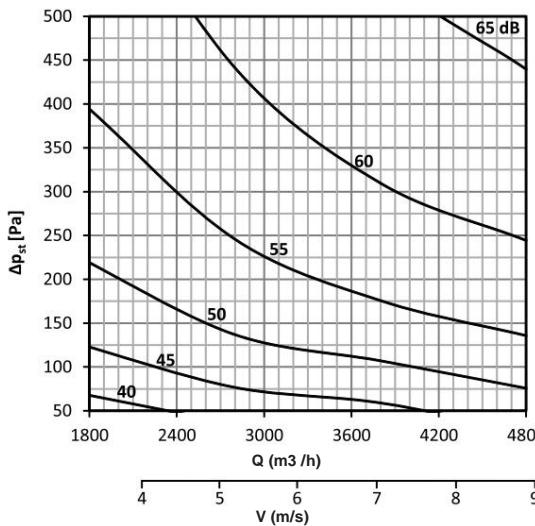
DAC-R 500 x 200



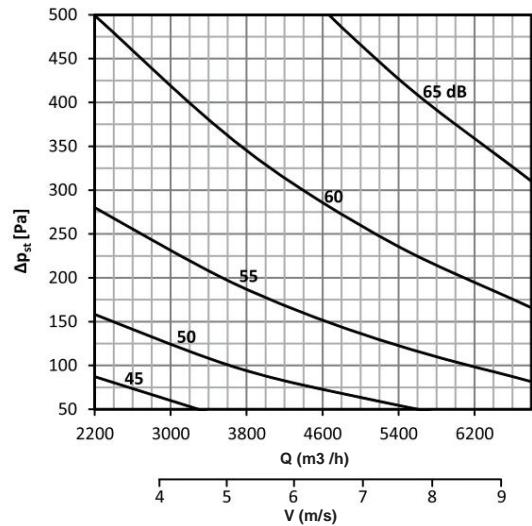
DAC-R 500 x 250



DAC-R 500 x 300



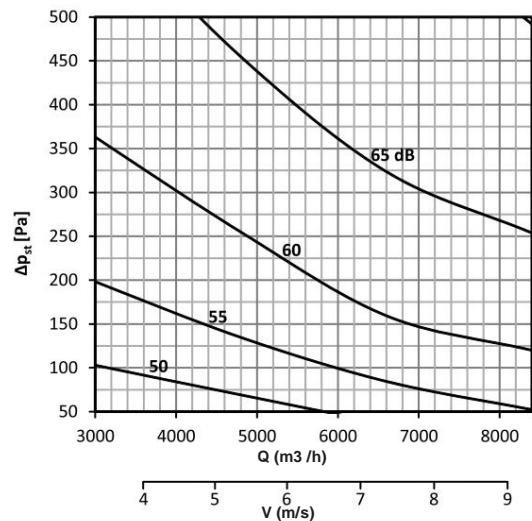
DAC-R 500 x 400



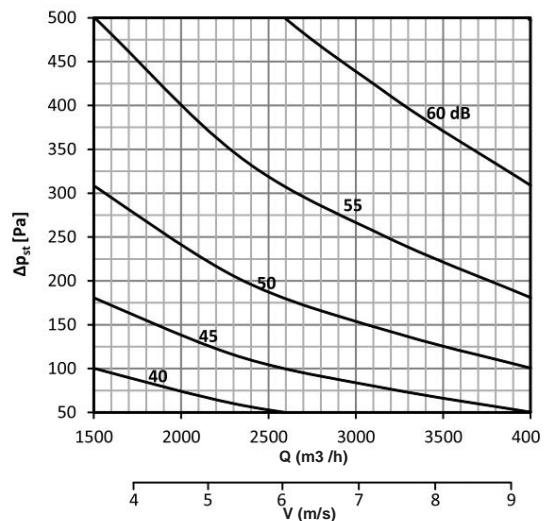
# Constant flow regulator

DAC-R

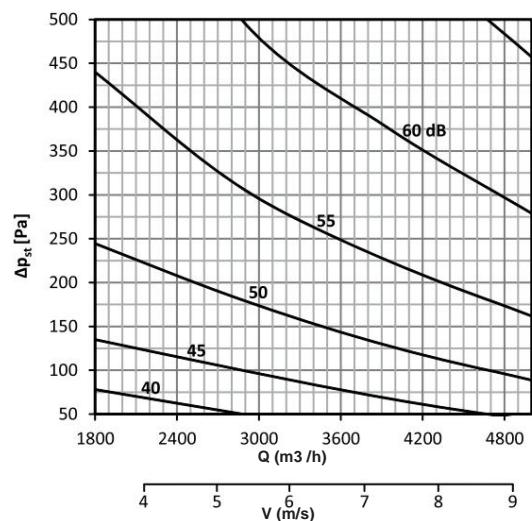
DAC-R 500 x 500



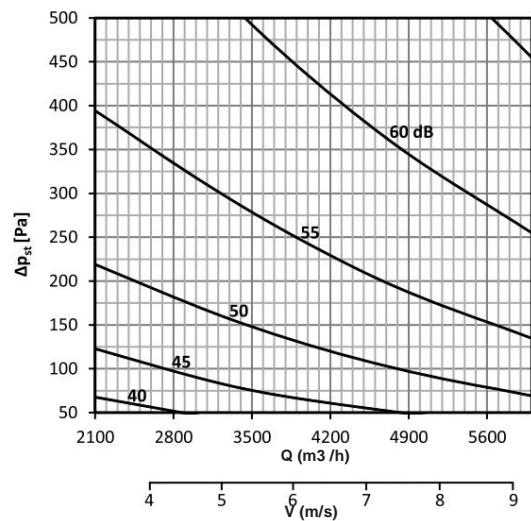
DAC-R 600 x 200



DAC-R 600 x 250



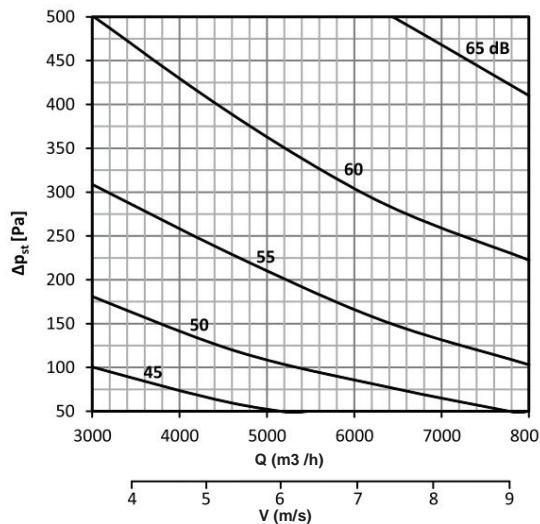
DAC-R 600 x 300



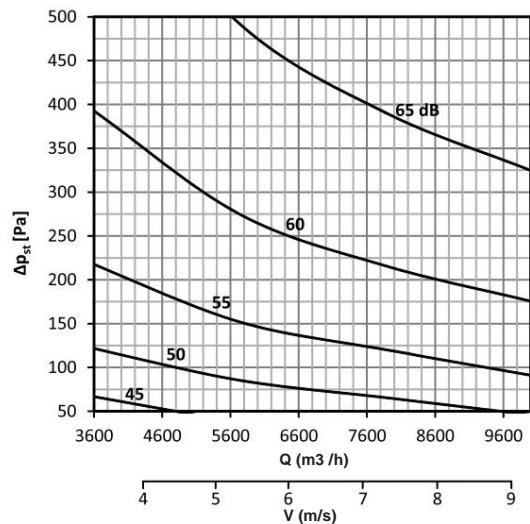
# Constant flow regulator

DAC-R

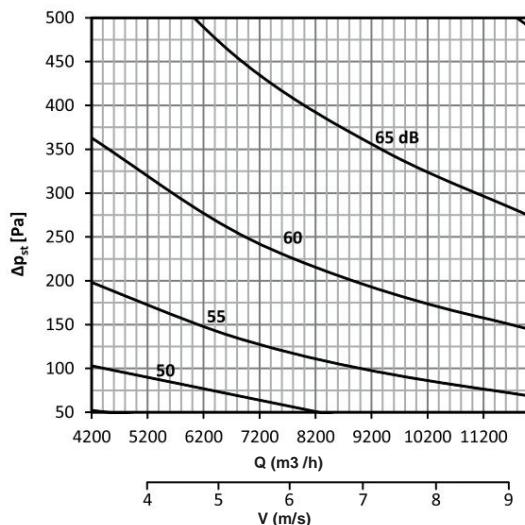
DAC-R 600 x 400



DAC-R 600 x 500



DAC-R 600 x 600



# Constant flow regulator

DAC-R

## Radiated Noise - With Isolation

The noise radiated by the regulators is listed in the table below.

$Q$  (m<sup>3</sup>/h) Flow rate

$L_{wa}$  (dB(A)) Total weighted sound power for filter A

$\ddot{y}_{pst}$  (Pa) Differential pressure

## Radiated sound power - With insulation

Dimension	$Q$ (m <sup>3</sup> /h)	L <sub>wa</sub> (dB(A))			
		$\ddot{y}_{pst} = 50$ Pa 24	$\ddot{y}_{pst} = 100$ Pa	$\ddot{y}_{pst} = 250$ Pa 28 33	$\ddot{y}_{pst} = 500$ Pa
200 x 100	250				38
	400	30	34	39	44
	550	34	38	43	48
	700	37	41	46	52
200 x 150	400	26	29	34	38
	600	32	35	40	44
	800	35	39	44	49
	1000	39	43	48	53
200 x 200	500	28	31	35	39
	765	33	36	41	45
	1035	37	40	46	50
	1300	40	44	50	54
300 x 100	400	27	31	36	41
	600	33	36	41	45
	800	36	39	44	48
	1000	39	42	47	51
300 x 150	500	26	30	36	41
	835	33	37	42	47
	1165	38	41	46	50
	1500	42	45	50	54
300 x 200	600	26	30	38	44
	1065	30	35	43	49
	1535	34	39	47	53
	2000	36	41	49	56
300 x 250	800	26	31	38	45
	1365	31	35	43	50
	1935	35	40	47	54
	2500	38	43	50	57
300 x 300	1000	26	31	39	46
	4665	31	36	44	51
	2335	35	40	48	54
	3000	38	43	51	57
400 x 200	900	24	29	37	44
	1500	29	34	42	48
	2100	32	37	45	51
	2700	35	40	48	54
400 x 250	1200	27	32	40	46
	1935	30	36	44	50
	2665	34	39	47	53
	3400	37	42	50	56
400 x 300	1500	29	34	42	48
	2400	34	39	46	52
	3300	37	42	49	55
	4200	40	45	42	57

# Constant flow regulator

DAC-R

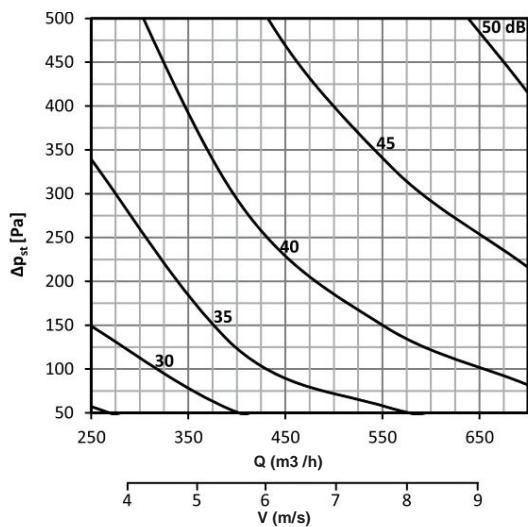
Dimension	Q (m <sup>3</sup> /h)	L <sub>WA</sub> (dB(A))			
		ÿpst = 50 Pa	ÿpst = 100 Pa	ÿpst = 250 Pa	ÿpst = 500 Pa
400 x 400	1800	30	36	43	49
	3000	35	40	47	53
	4200	39	44	51	57
	5400	42	47	54	60
500 x 200	1100	24	28	36	43
	1865	29	33	40	47
	2635	33	37	44	50
	3400	37	41	48	53
500 x 250	1500	26	31	38	44
	2400	30	35	42	48
	3300	33	38	45	51
	4200	37	41	48	54
500 x 300	1800	27	32	39	45
	2800	31	36	43	49
	3800	34	39	46	52
	4800	37	42	49	55
500 x 400	2200	30	34	41	48
	3735	35	39	46	53
	5265	38	43	50	57
	6800	42	47	54	61
500 x 500	3000	35	40	47	53
	4800	38	43	50	56
	6600	41	46	53	59
	8400	44	49	56	62
600 x 200	1800	25	29	37	43
	2865	29	33	41	47
	3935	32	37	45	51
	5000	36	41	48	54
600 x 250	1800	26	31	38	44
	2865	30	35	42	48
	3935	33	38	46	51
	5000	37	42	49	54
600 x 300	2100	27	32	40	46
	3400	31	36	44	50
	4700	34	39	47	53
	6000	36	42	50	56
600 x 400	3000	30	35	42	48
	4665	34	39	46	52
	6335	37	42	49	55
	8000	41	46	52	58
600 x 500	3600	32	37	44	50
	5735	36	41	48	54
	7865	40	45	52	58
	10000	44	49	56	62
600 x 600	4200	35	40	48	54
	6800	39	44	51	57
	9400	42	47	54	60
	12000	46	50	57	62

# Constant flow regulator

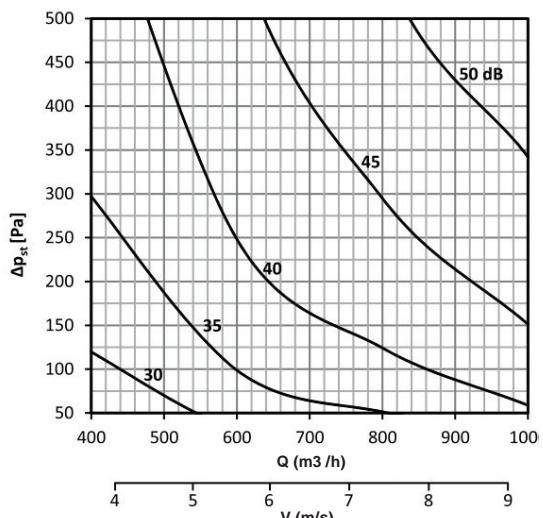
DAC-R

Sound power L<sub>wa</sub> (dB(A)) radiated - With insulation

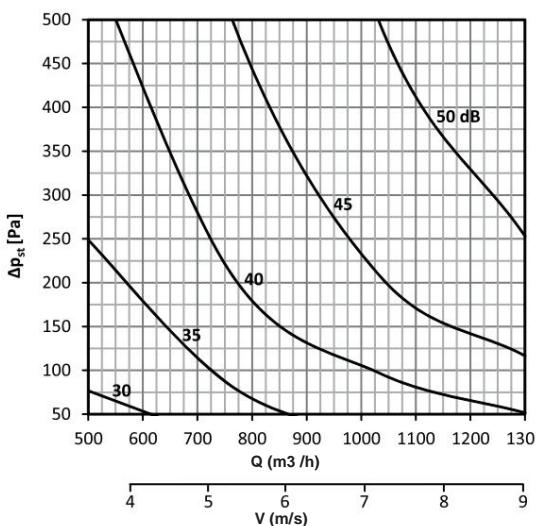
DAC-R 200 x 100



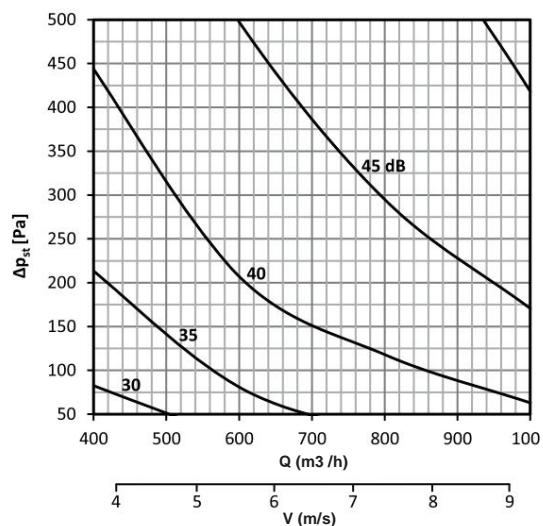
DAC-R 200 x 150



DAC-R 200 x 200



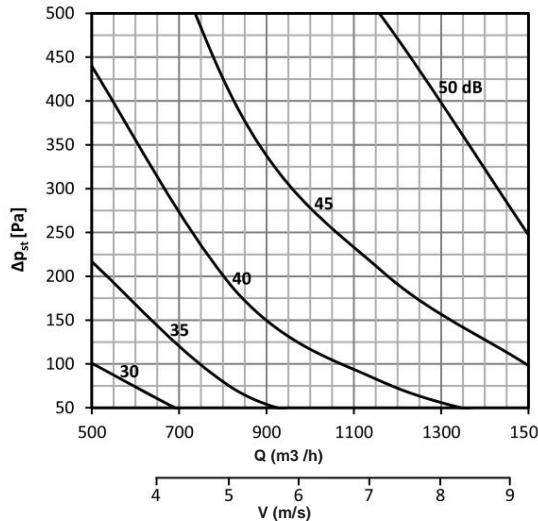
DAC-R 300 x 100



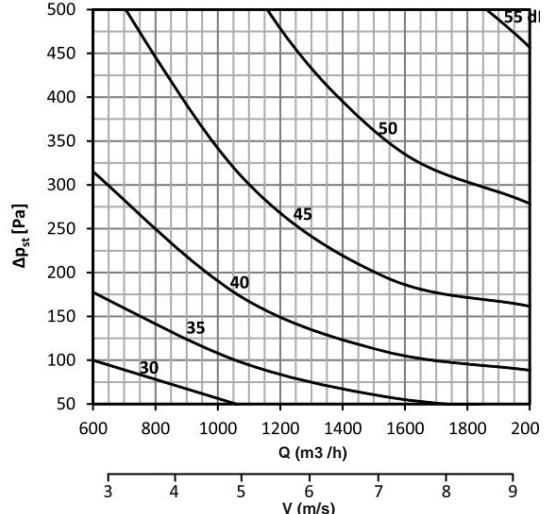
# Constant flow regulator

DAC-R

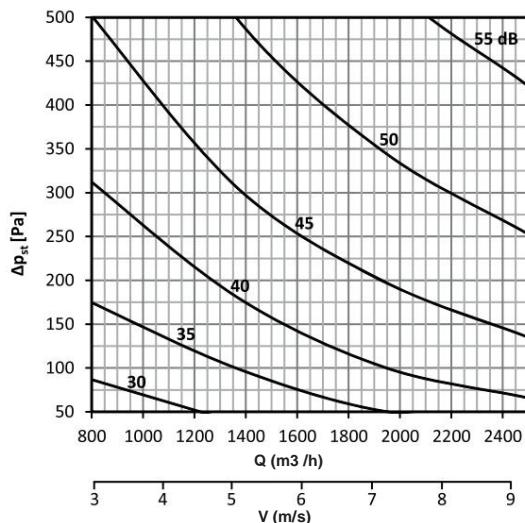
DAC-R 300 x 150



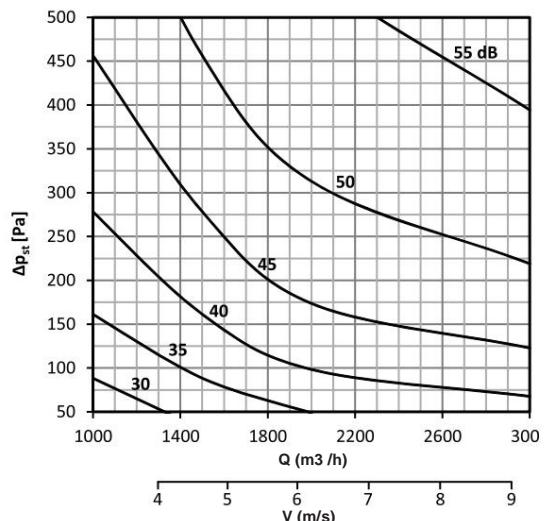
DAC-R 300 x 200



DAC-R 300 x 250



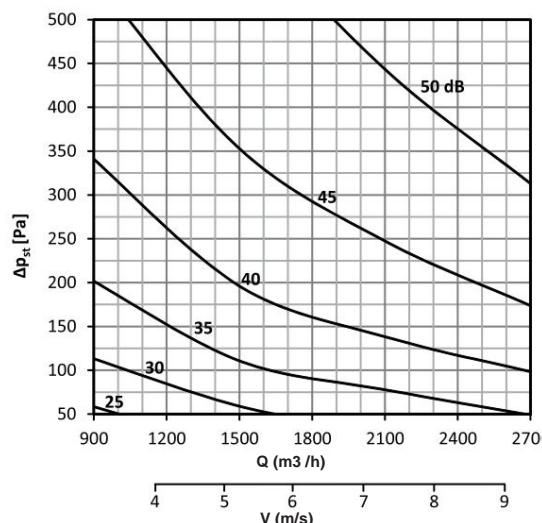
DAC-R 300 x 300



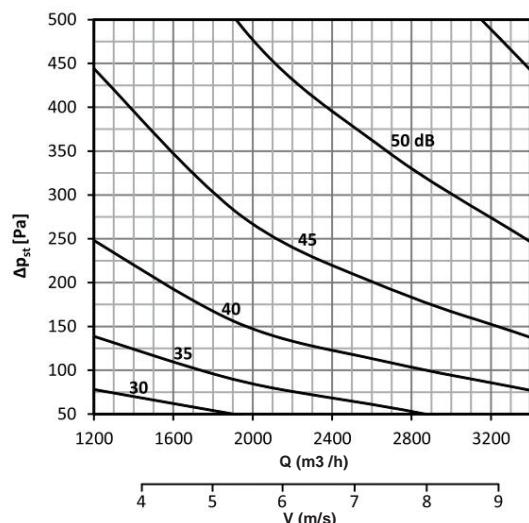
# Constant flow regulator

DAC-R

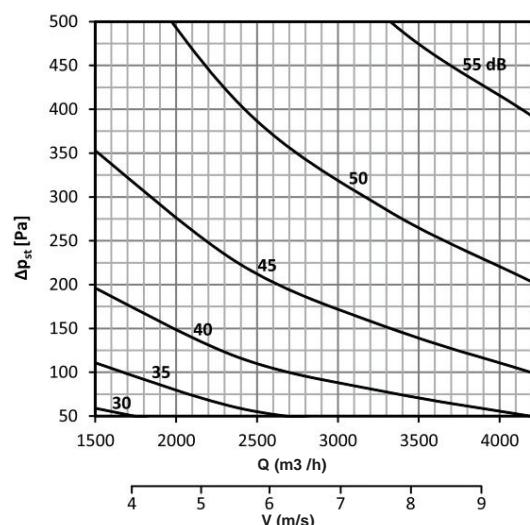
DAC-R 400 x 200



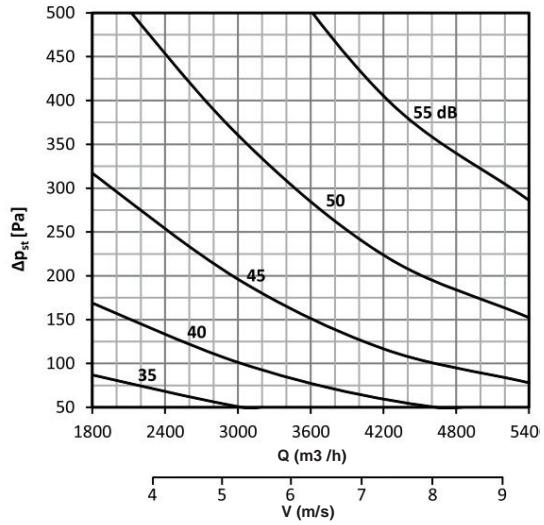
DAC-R 400 x 250



DAC-R 400 x 300



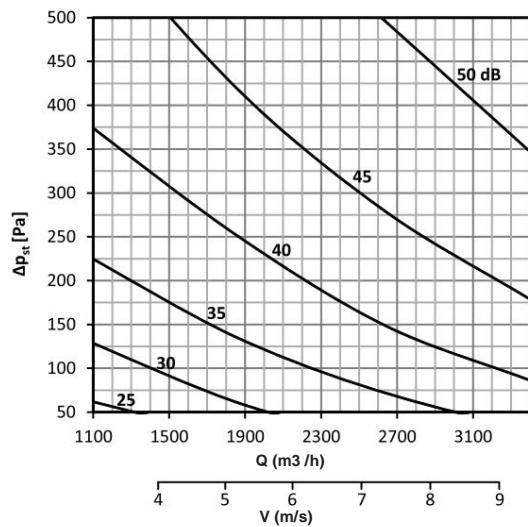
DAC-R 400 x 400



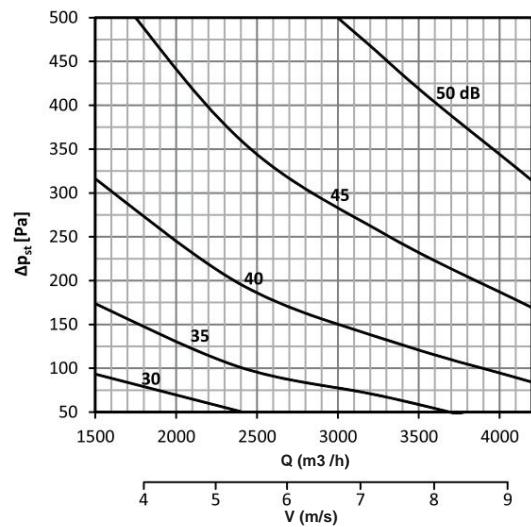
# Constant flow regulator

DAC-R

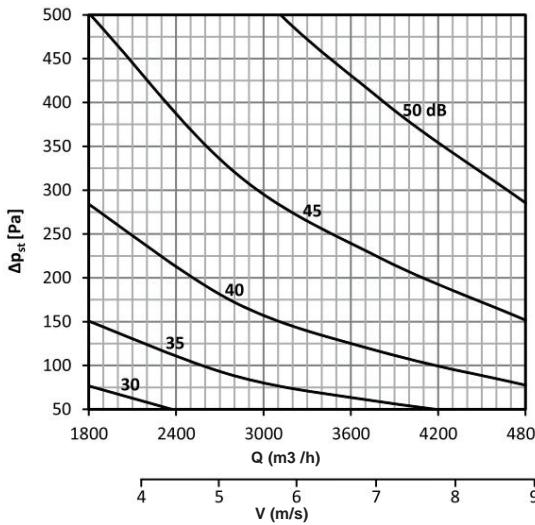
DAC-R 500 x 200



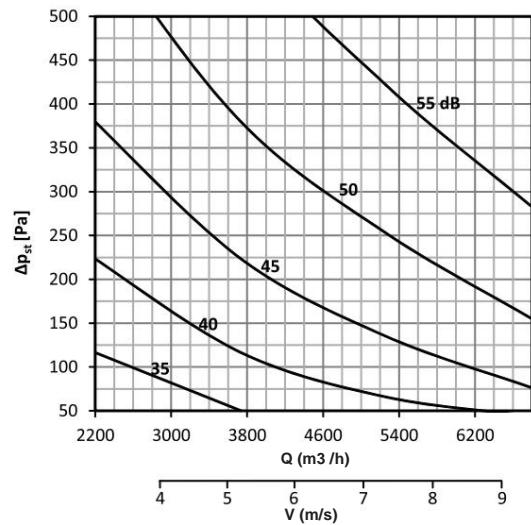
DAC-R 500 x 250



DAC-R 500 x 300



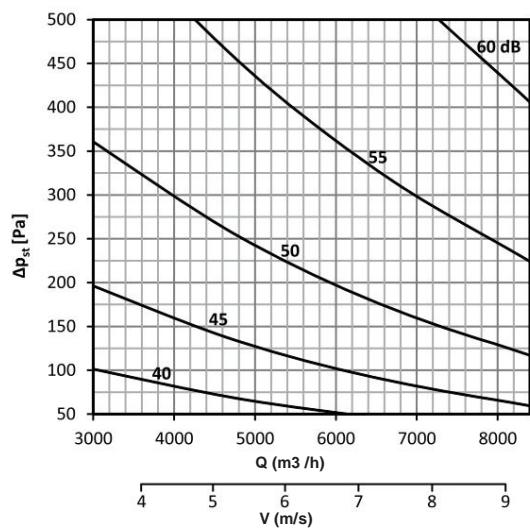
DAC-R 500 x 400



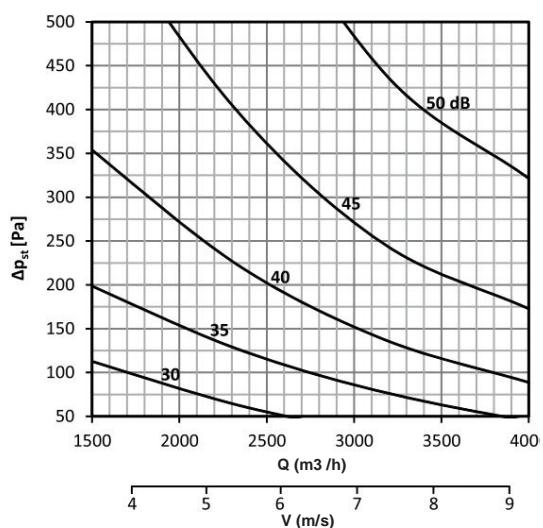
# Constant flow regulator

DAC-R

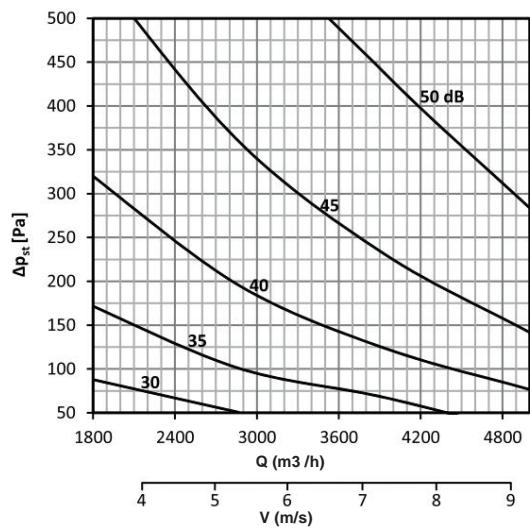
DAC-R 500 x 500



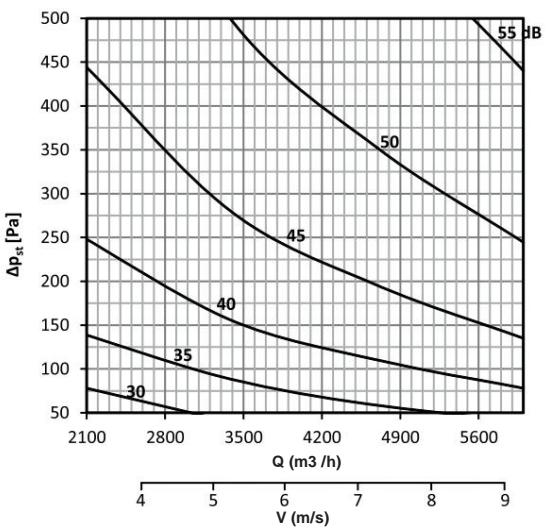
DAC-R 600 x 200



DAC-R 600 x 250



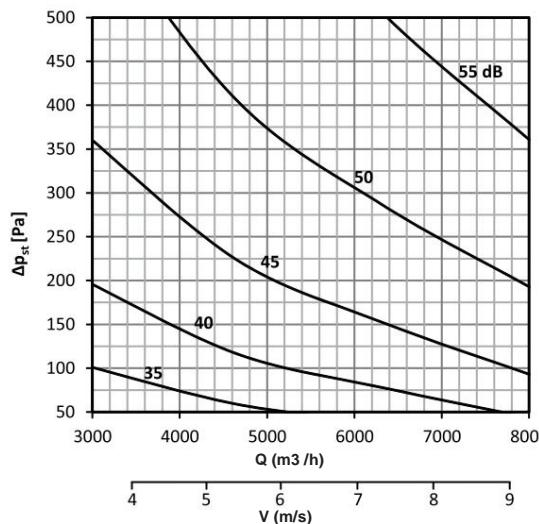
DAC-R 600 x 300



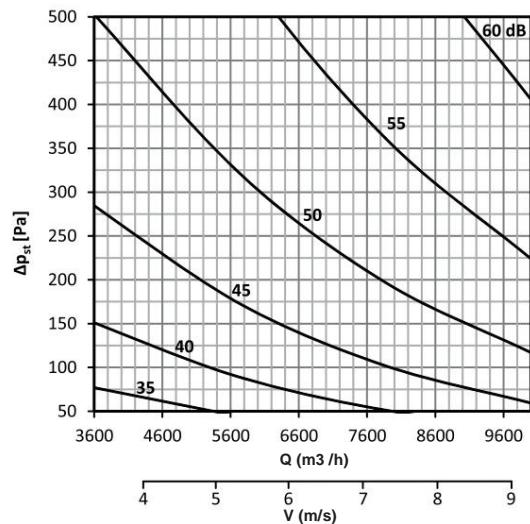
# Constant flow regulator

DAC-R

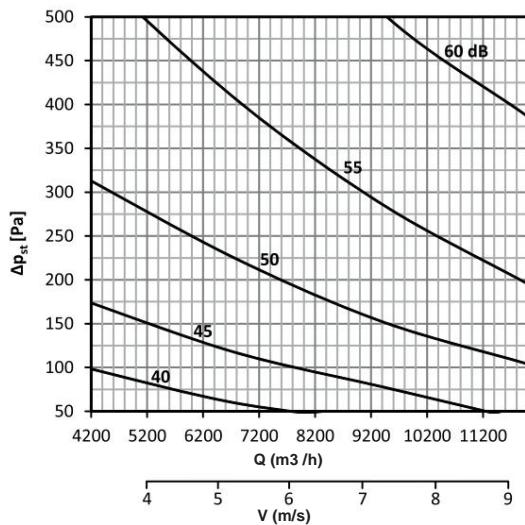
DAC-R 600 x 400



DAC-R 600 x 500



DAC-R 600 x 600



# Constant flow regulator

DAC-R

## Materials

The regulator housing and regulating device are made of galvanized steel.

The shovel is made of aluminium. The bearings, springs and axle are made of stainless steel.

The regulators are delivered without other surface treatments.

DAC regulators can be supplied in stainless steel on request.

Stainless steel classification for models on request:

- Class 2 - AISI 304 stainless steel.

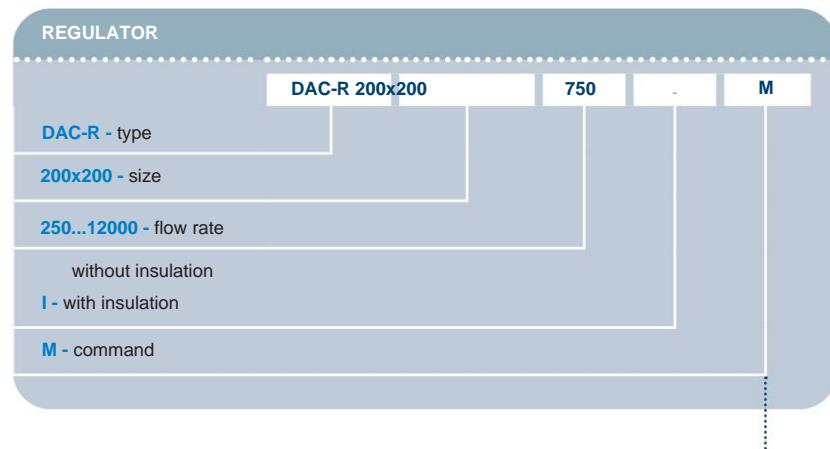
The following components (including fixings) are made of AISI 304 stainless steel for the models on request:

- regulator body and all its integral components,
- blade axis and screws for the blade in the damper,
- control panel (top and bottom),
- internal control mechanism,
- adjustment lever and related fixings.

The damper control box has an aluminum casing. The springs of the control mechanism are made of AISI 301 - EN 10270-3 stainless steel.

The plastic components, seals, motors and contacts are identical for all control variants.

## Order example



Type of command	Adjustment	Order code
Manual adjustment	Manual	M
Motorization 230 V - ON-OFF	LM 230A; NM 230A; SM 230A	AM 230
230 V - ON-OFF motorization with LM 230A-S auxiliary contact; NM 230A-S; SM 230A-S AM 230 S		
Motorization 24 V - ON-OFF	LM 24A; NM 24A; SM 24A	AM 24
24 V - ON-OFF motorization with LM 24A-S auxiliary contact; NM 24A-S; SM 24A-S		AM 24 S
24 V SR motorization - Proportional	LM 24A-SR; NM 24A-SR; SM 24A-SR AM 24 SR	

Engine type: see table p. 5

Engine data: see table p. 8

## Operation

The DAC-R regulator is preset at the factory. Its correct functioning depends on correct installation and adjustment conditions

All devices are tested for safety and operation at the end of production.

## Maintenance and storage

Regulators must be handled with care to avoid impacts and damage during handling. The shutter must be placed in the "closed" position for all maintenance and handling operations.

DAC-R regulators must be stored indoors in a non-aggressive and dust-free environment.

Temperature conditions must be between -5°C and +40°C with a maximum relative humidity of 80%.