MANDÍK®

RPM-LV 250 88/1414

Size:	DN 250 / 450
Flow rate V:	100 m3/h
Media speed w:	0.6 m/s
Pressure loss Δpcv:	< 5 Pa
Sound power level LWA:	50 Pa: 24 dB(A) 100 Pa: 29 dB(A) 250 Pa: 38 dB(A) 500 Pa: 46 dB(A)
Weight:	4.2 kg
Effective damper's area Sef:	---

Octave band sound power level LWA (inside the duct)

f [Hz]	63	125	250	500	1000	2000	4000	8000	LWA
Lwoct [dB] at Δpst = 0.1 Pa	---	---	---	---	---	---	---	---	---
Lwoct [dB] at Δpst = 50 Pa	48	37	33	33	34	32	24	< 15 dB	38
Lwoct [dB] at Δpst = 100 Pa	52	44	38	38	41	37	29	17	44
Lwoct [dB] at Δpst = 250 Pa	64	54	47	47	50	47	39	27	53
Lwoct [dB] at Δpst = 500 Pa	72	62	55	55	58	55	47	34	61

Description

Air flow controllers are intended for the use in buildings, installed in air supply or air exhaust ducts of HVAC systems. Controlling the air flow in different branches of the system, the air is directed to where needed when needed in order to assure both well-being and economic operation. The controllers with variable air flow rate consist of the air-tight body, air-tight damper blade firmly mounted on a shaft, electric actuator, air flow rate measuring system, and of the electronic controller including communication interface. RPM-LV air flow controllers represent the latest generation of devices based on differential pressure air flow measurement principle, benefiting from intensive local variations of the pressure field around the damper blade. MANDÍK design profit from many years of experience with production of accurate, robust and reliable air flow controllers combined with innovation drive and state-of-the-art laboratory testing. In addition to precisely controlled production process, high-end components from top suppliers contribute to performance fully exploiting the potential of the basic principle of function, benefiting also from the input from our customers, designers of HVAC systems, installers and end users.

Characteristics

- to control variable or constant airflow in ventilation systems
- diameters from 80 to 315 mm
- flow rate from 9 to 2 244 m3/h (for example from 2.5 to 623 l/s)
- for air velocities from 0.5 m/s
- working since the control pressure loss is above 2 Pa
- compact construction - no sharp and obsolete devices inside the damper
- made of galvanized steel sheet

- each controller is equipped with pressure sensor next to the blade and customized actuator (Belimo LMV-D3W-MP.1 MDK, supply voltage 24 V, control voltage 0-10V or 2-10V)