



KBY constant pressure control



MADEL[®]

The **KBY** control module enables you to set and maintain a constant pressure in a low and medium pressure aerolic duct network (20 to 300 Pa).

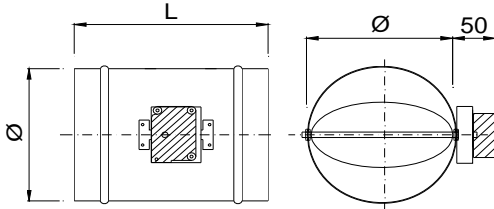
It is especially suitable for installations with variable air flow systems, such as zoning systems, installations with VAV systems and installations with ventilation flow rate modulation.

The **KBY** control guarantees balance throughout the duct network and uniform operation of the grilles and diffusers of the installation.

The **KBY** unit includes a pressure sensor, a selection switch and a rotary switch, which enable you to easily set the pressure to be maintained. The unit can act on a bypass damper (ZC/ZQ) by means of a 24 Vdc output or directly with a 0-10V output on an EC/DC fan, a frequency variator or a damper with a proportional motor.

Green and healthy: air flow rate adjustment in accordance with the needs of the enclosure (by temperature or air quality).

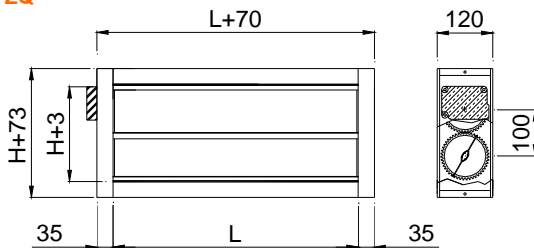
ZC



	Ø	L
160	158	295
200	198	295
250	248	335
315	313	335

Ø mm	ZC Q interior unit m ³ / h
200	750-1000
250	1250-1500
315	1750-2000
355	2250-2500

ZQ



L x H mm	ZQ Q interior unit m ³ / h
300 x 100	600-750
400 x 100	850-1000
500 x 100	1000-1250
400 x 150	1200-1500
500 x 150	1500-1750
400 x 200	1700-2000
500 x 200	2100-2500
500 x 250	2500-3000
600 x 250	3400-4000
2 Unit 500x200	4200-5000
2 Unit 600x200	4700-5500
2 Unit 500x250	5100-6000

CLASSIFICATION

KBY Pressure control module (range 20-300 Pa). Pressure taring with a rotary switch. Option of acting on a ZQ / ZC damper motor or directly with a 0-10V output on DC fans or frequency variators.

ACCESSORIES

ZQ Motorised air damper for assembly in a rectangular duct. It requires a **KBY** pressure sensor to act as a bypass.

ZC Motorised air damper for assembly in a circular duct. It requires a **KBY** pressure sensor to act as a bypass.

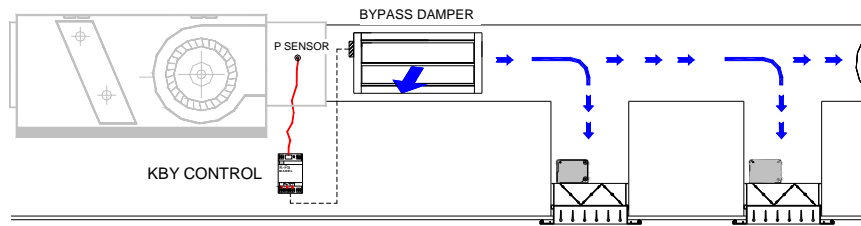
SPECIFICATION TEXT

Supply and mounting of **KBY** pressure control module (range 50-300 Pa) with pressure taring by means of rotary switch to act on Zoning System motorised dampers.

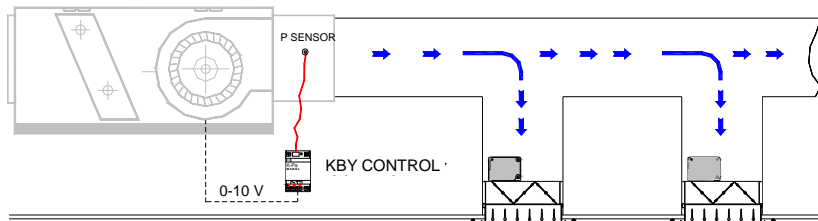
ZQ / ZC or directly with a 0-10V output on DC fans.

MADEL brand.

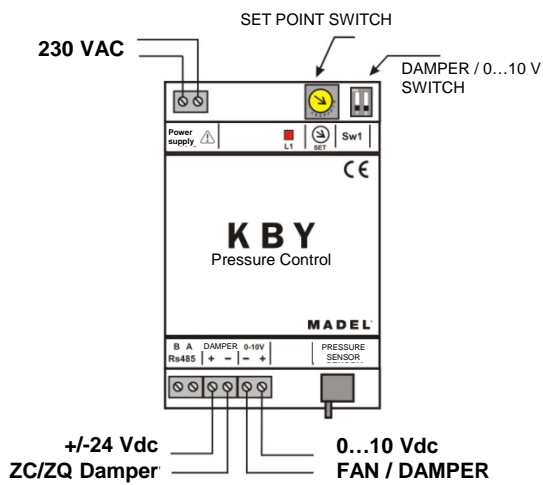
PRESSURE CONTROL ON BYPASS DAMPER



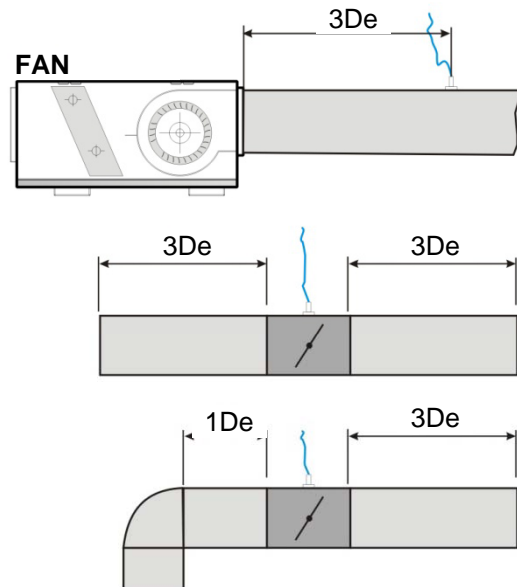
PRESSURE CONTROL ON EC/DC FAN



WIRING DIAGRAM



PRESSURE PROBE OPTIMAL POSITION



Technical specifications

- Power supply 230 Vca ± 10%, 50/60 Hz. Consumption: 4 VA
- 1 24 Vcc output, for ZQ / ZC damper control
- 1 0-10 VDC output, for EC motor control or proportional damper motor.
- Pressure sensor.
 - Nominal measurement range 20 to 300 Pa.
 - Average precision ±5% with respect to set-point.
- RS-485 communications bus.
- Protection rating: IP 20

Dimensions (mm)

