

**ED 100/250  
Swing door  
operators**

**Strong  
against wind.**





## A challenge for swing door operators.

Swing doors are often exposed to wind loads. Wind acts with full force on exterior door leaves while interior doors are committed to pressure differences caused by air conditioning systems, ventilation systems or the stack effect.

With a surface of around 2–3 m<sup>2</sup>, even average sized doors are heavily committed to wind loads, which in turn have a negative effect on the proper driving behaviour of swing doors during their opening and closing cycles.

Especially electrohydraulic operators, which close only via spring force, cannot respond flexibly to the prevailing weather conditions as their closing force is tied to their current spring force adjustment.

### **This results in:**

- Loss of warm or cold air through open doors.
- Unauthorised user access whenever the door does not fall shut.
- Considerably varying driving speeds depending on the prevailing weather conditions.



## The solution: The ED 100/250 with integrated wind-load control.

The new electromechanical ED 100 and ED 250 swing door operators are equipped with DORMA wind-load control. This feature is activated with the aid of the Full-Energy Upgrade Card. While adjusted to Automatic mode, the system recognises and compensates wind loads with a force of up to 150 N (maximum admissible force). In addition, the motor supports the spring during closing cycles and the electronic latching action helps to close the door properly. Furthermore,

the wind load control actively changes the driving parameters in opening and closing direction in order to tailor the door's driving behaviour to the prevailing weather conditions.

### Benefits:

- Motor-supported closing cycles
- Adjustable electronic latching action
- Less weather effects on the door's driving behaviour



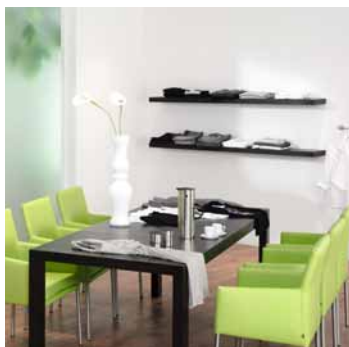


## Tested and approved as powerful.

Compared to electrohydraulic swing door operators up to size EN 6, our system provides more than double the closing force for as long as the wind-load control is activated. Thanks to this feature, the operator can easily cope with higher wind loads.

Tests of an independent testing institute, performed in a wind tunnel, show that the ED 100 is capable of opening and closing a door several times at a frontal wind speed of

17 m/s – which is the maximum speed this wind tunnel can generate. All tests have been performed at a door with a width of 990 mm and a height of 2,250 mm. Please visit our homepage [www.dorma.com](http://www.dorma.com) to watch the corresponding video documentation.





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