

References from practical use

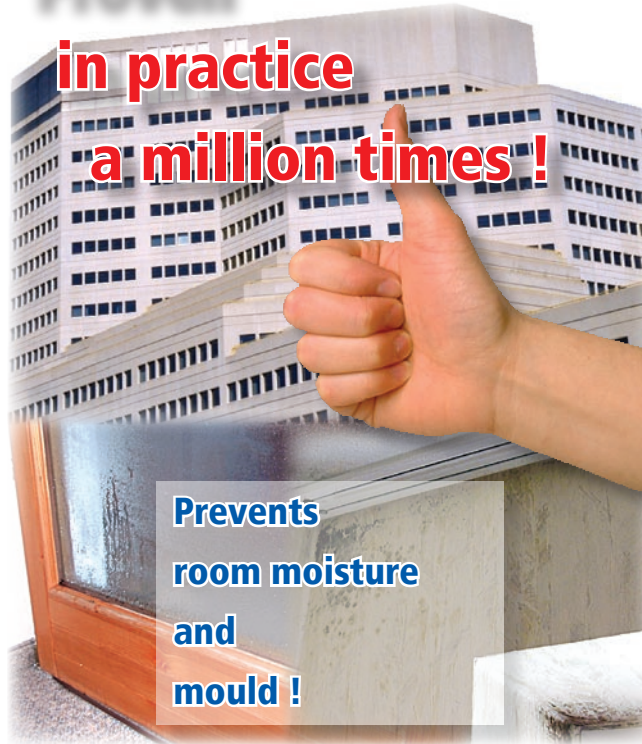


REGEL-air®
window-fold ventilator

Ingeniously simple - simply ingenious!

Developed by ENBEMA Becks GbR • www.enbema.de

**Proven
in practice
a million times!**



Prevents
room moisture
and
mould!

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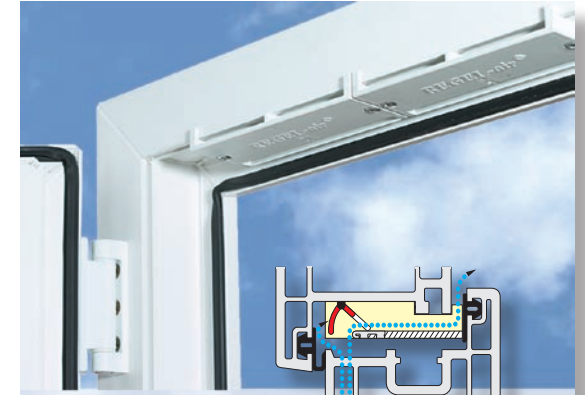
8/2007. Subject to changes and errors.



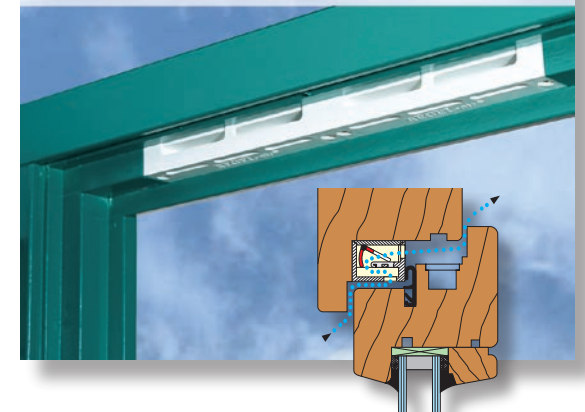
REGEL-air®
window-fold ventilator

with two-level volume-flow regulator

DBP 199 29 133



**Regulated
Freshness**



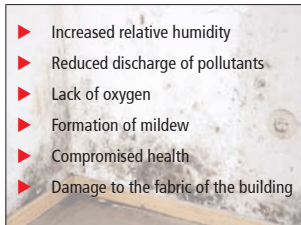
simply ingenious!

Ingeniously simple •

The problem: Residential fine ventilation

In general, residents today are overtaxed when it comes to the ventilation of their home. The reason, why rooms are not sufficiently aired are cold, weather influences, noise and security needs. Additional factors are job and holiday related absencies or lack of time.

Yet, the consequences of insufficient ventilation are sometimes serious:



- ▶ Increased relative humidity
- ▶ Reduced discharge of pollutants
- ▶ Lack of oxygen
- ▶ Formation of mildew
- ▶ Compromised health
- ▶ Damage to the fabric of the building

Fine ventilation of residences must -without influences from residents and weather- provide homes with sufficient fresh air, so that room and wall moisture are automatically regulated.

The solution: *REGEL-air*® window-fold ventilator

The *REGEL-air*® window-fold ventilators introduce fresh air into each room below the ceiling in an energy efficient way.

Mixing with the warm air there, the relative humidity of the air is decreased to an uncritical level. Formation of mildew is prevented and pollutants are continually purged.



Furthermore, the 2-level flow regulator prevents draft effects at high wind speeds. When installed, the *REGEL-air*® window-fold ventilator lies concealed in the window fold. Thus it is not visible when the window is closed.

Always prepared !

REGEL-air® ventilation is purely mechanical: the window-fold ventilator reacts automatically to changes of wind pressure around the building. It does not require an energy supply and needs no action whatsoever from the resident. Day and night, in all kinds of weather and even when you are not at home.

Maintenance-free and independent of the resident's schedule.

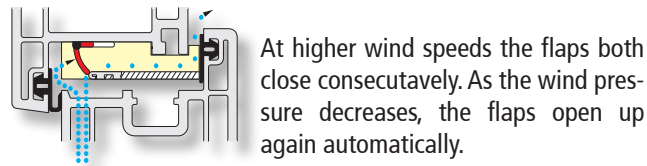
For all cases

REGEL-air® is available for many synthetic window systems and for wooden frame windows. The *REGEL-air*® window-fold ventilator is suited for installation in the factory and for retrofitting in windows that are already mounted

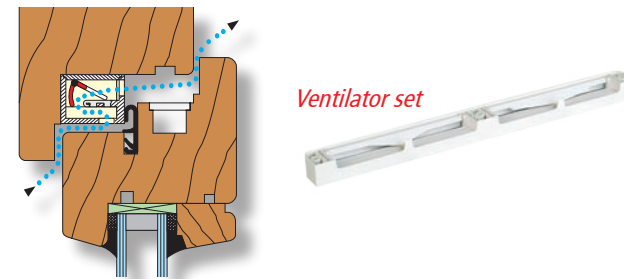
Should there already be problems with moisture in the residence, the chances are good that these will be ameliorated by installing *REGEL-air*® window-fold ventilators.



REGEL-air® window-fold ventilators for synthetic frame windows



REGEL-air® window-fold ventilator with closed regulator flap at high wind pressure



REGEL-air® window-fold ventilators for wooden frame windows

An overview of POSITIVE ASPECTS

- Ventilation system integrated in window
- Concealed in window fold - not visible when the window is closed
- Automatic wind pressure adjustment
- Visible ventilation ducts - simple cleaning
- Rapid installation
- Easily retrofittable
- Controlled exchange of air
- Secure dehumidification
- Avoids damage from mildew
- Sound insulation up to class 4
- Certified according to EnEV 2002

The *REGEL-air*® in tests

The air flaps that regulate themselves according to the wind pressure insure that *REGEL-air*® works in a balanced manner. The following representative values were recorded with a synthetic test window, size 1.23 x 1.48 m:

Differential pressure in [Pa]	4	8	10	15	20
Mean air flow [m³/h]	3,3	4,3	4,8	6,1	5,6
Differential pressure in [Pa]	30	40	50	60	100
Mean air flow [m³/h]	4,1	4,8	5,4	6,0	7,8

Test results *REGEL-air*®

- ▶ Performance test according to DIN EN 13141-1
- ▶ Permeability of seams according to DIN EN 12207
- ▶ Water tightness according to DIN EN 12208
- ▶ Sound insulation up to 42 dB according to DIN EN 20140