



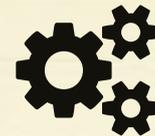
DryBand®

System for active electroosmosis



How can DryBand® system help you?

DryBand® system will help dry out damp from masonry and all construction units affected by rising damp.



How does DryBand® works?

DryBand® system operates on the principle of active electroosmosis, plugged in and maintenance free operation.

Drying wet masonry



- » DryBand® is an electronic device that in contactless and non-destructive manner dries rising damp.
- » Ecological system on the principle of active electroosmosis ensures permanent drying of masonry without any construction interventions.
- » The system is ready for use and suitable for all types of buildings affected by capillary moisture and rising damp from the living quarters, houses, cellars, cottages to industrial buildings, bridge constructions and historical buildings.
- » DryBand® system is suitable for Grade I, II*, II listed buildings.



What do I get from purchasing DryBand®?

Drying wet masonry, preserving the original value of your property, a healthy environment, saving your wallet.



Use DryBand® easily and effectively!

Contact us and get a consultation regarding damp proofing and renovation of your property and quality moisture survey for free!



DryBand®



System for active electroosmosis

Benefits of DryBand®

Active electroosmosis - prevents rising damp in the masonry.

Economically advantageous solution

The most economically advantageous solution for drying wet masonry and rising damp in regards to all other methods of masonry remediation and protection.

Long lifespan

Minimum life of 25 years.

Low energy costs

Minimum energy costs, electricity consumption is around 6-8 kWh / year, about 10,- Euro.

Without construction impacts

Installation of the system requires no special interventions into the building structure, during the drying process, undisturbed operation of the facilities.

Maintenance-free operation

The device works continuously in maintenance-free operation mode, just connect to the grid 230V - 50Hz.

Suitable for all types of masonry and building substances

DryBand® system is suitable for use with all types of masonry, stone, concrete and all porous building materials with achieving long-term fixed values of their natural moisture.

Meets the requirements of protection of historically listed buildings

The DryBand® system is ecological, without destructive interferences and chemical products that alter the building materials.

Desalination of masonry

The salts contained in the water surface on the masonry, process in which the electromagnetic field creates a el. potential difference between the wet and dry part of the masonry. By successively moving the interface potential, the moisture in the wall evaporates on the surface and portion that reaches the surface of the wall is formed into what is known as saltpeter maps on masonry.

Higher thermal insulation masonry

When drying masonry, it increases the thermal insulation properties of masonry, which reduces your heating costs.

Reduction of humidity

Deprivation of masonry moisture also means the end for mold and algae with subsequent development of fungi whose spores settle in the respiratory tract and may cause chronic diseases such as rheumatism and asthma. Healthy and pleasant environment.

Corrosion protection

Variability, adaptation to specific objects

Possibility to supply power via photovoltaic panels.

The shortest time of drying masonry

Compared with all kinds of masonry remediation and damp proofing.

Efficiency in radius 15 meters

The system is suitable for normal sized residential house, possible to connect multiple devices for larger objects.





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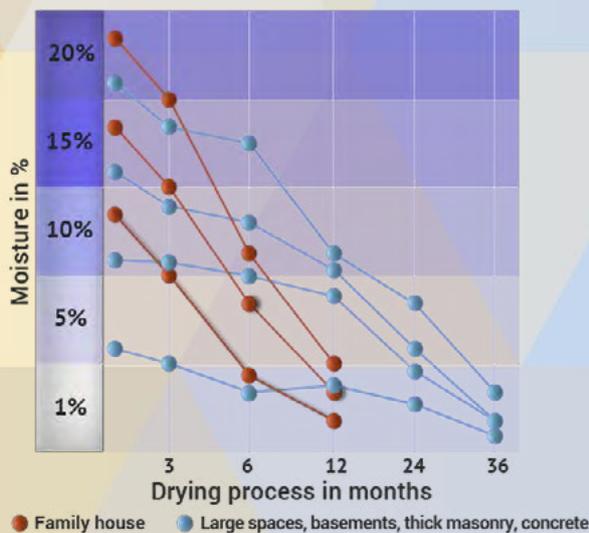
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Rising damp

» Rising damp is caused by natural physical phenomena, wherein the water creeps from the outside, and rises in the capillaries into the construction through direct contact of masonry with the ground. In old buildings with high humidity, rising damp is caused due to the lack of damp proofing and defects caused by time in the building structure.



Drying process



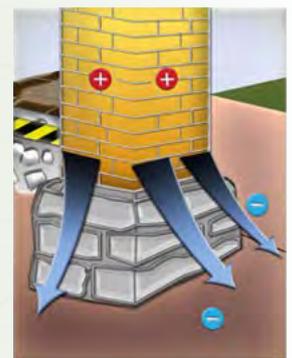
The function of the system for active electroosmosis is continuous.



The use of DryBand® system greatly reduces the moisture load of building structures, which is directly reflected in their lifetime.

» The moisture in the masonry can be caused by variety of ways and with a moisture survey of the building its possible to determine the current status and determine appropriate remedial action.

» Drying with DryBand® system is a process in which the action of the electric field on the molecules of water creates a potential difference between the wet and dry part of the masonry. By successively moving the boundaries of the interface potential, the moisture in the masonry is pushed to the surface and evaporated into space. The force of an electromagnetic field also acts against the penetration of masonry.



DryBand®



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Technical specifications

Design

» The control unit enclosure in fireproof plastic, resistant to breakage, for use in wet areas, IP 54

Dimensions

» 210mm x 180mm x 100mm

Weight

» 900g with integrated antenna

Power supply

» 230V/50–60Hz safety transformer separate from a power circuit device

» internal power control unit with microprocessors 12V / 5V (outside of the availability of power network possibility to supply power with photovoltaic panels)

Input

» 2,6W

Output power

» max. 40mW/pp

Electric field intensity

» 17-150 V/m

Magnetic field intensity

» 0,3–0,8 mikroT (to 0,5m)



DryBand® system meets the strictest quality criteria, a certificate of conformity CE - Electromagnetic compatibility.

(EN 60335-1:2012/AC:2014/A11:2014, EN 55014-1:2006/A1:2009/A2:2011, EN 61000-3-2:2014, EN 61000-3-3:2014, EN 61000-4-2:2009, EN 55014-2:1997/corr.-Dec:1997/A1:2001/A2:2008/IS1:2007, EN 61000-4-3:2006/A1:2008/A2:2010/IS1:2009, EN 61000-4-4:2012, EN 61000-4-5:2014, EN 61000-4-6:2014, EN 61000-4-11:2004)

The electromagnetic field is generated by the device with regard to human health and its harmless to the living organisms.

DryBand® holds CE EMC certificate. The device becomes an integral part of building and works on a continuous basis.



Cost-effective and easy installation makes the DryBand® system most convenient way to dry moisture from masonry at low cost.

DryBand® - cost effective and environmentally friendly method for contactless masonry remediation.

Call us regarding problems with damp masonry today!

Free moisture survey! We solve your problems with rising damp! www.dryband.eu

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