

We remove dangerous dampness out of your home or building permanently
and give you a healthy and safe basis to breathe



Lasting · Safe · Reliable

Contents

The problem of dampness
Health risks and dangers
Various ways of controlling dampness
Lasting removal by the BCV MT-R
Our services at a glance
Advantages and technical data



The problem of dampness

Water is one of the most important elements on our planet, without water there would be no life. It also symbolizes energy and power. If this energy and power appears unchecked, it can influence houses and their occupants negatively.

Types of dampness

Before you can work on a solution to the problem, you first have to investigate the reason. The problem of dampness can be subdivided into one or more of the following categories.

Amongst others there is **dampness in new buildings**, **condensation dampness**, **capillary dampness** (rising dampness) or dampness which can be traced back to a **technical problem** such as **water damage**.

Problems with the structure

Dampness in the walls brings with it many technical problems and also health problems for the occupants. Normally, they can only be removed by very expensive measures. Dampness can lead to:

- salt, salpetre
- wall damage
- plaster chip offs
- mould

on the walls. Salt and salpetre are carried by rising dampness. These are recognizable by flowers of salt as you can see on the two upper pictures. Freezing dampness can lead to technical damages like wall- and plaster chip offs in the walls.

Not only are the constantly required redevelopment measures a cost factor but also the fact that water is a good conductor. Water lowers the insulation value of the wall dramatically and raises the cost of heating up to 300%.

Mould makes you ill

Allergies and similar illnesses have been on the rise continuously over the last few years. In Germany alone, more than 30 million people are affected – around 30% of them are allergic to mould.

In buildings or houses in which there is too much dampness in the air or in the walls, mould can thrive. Mould multiplies hidden away, for example behind wallpaper or totally visible as black little dots on the wall.

Characteristics of mould infestation

The spectrum of possible illnesses and symptoms ranges from allergic reactions like skin irritations and flu-like troubles to serious conditions of exhaustion, dizziness, temporary amnesia and speech disorder.

Respiratory diseases combined with a chesty cough, a feeling of tightness in the chest and even asthma form another category.

Mould is poison for the body

Mould also has toxic and infectious effects which can harm people with a weak immune system.

One must not forget its smell which is a real nuisance and reduces the quality of life severely.

Every case requires action

In every case you have to act immediately and think of a long-term solution; for you, for your family, for your employees or also for your friends.

Take action today.



First steps to be taken

- Improve your living comfort by ventilating in short intervals
- Search for the cause of dampness
- The causes are often technical like a blockage in the drainage system of the roof or faulty insulation etc.
- If you are not able to find the cause, call us or get in touch with us. We will advise you free of charge.



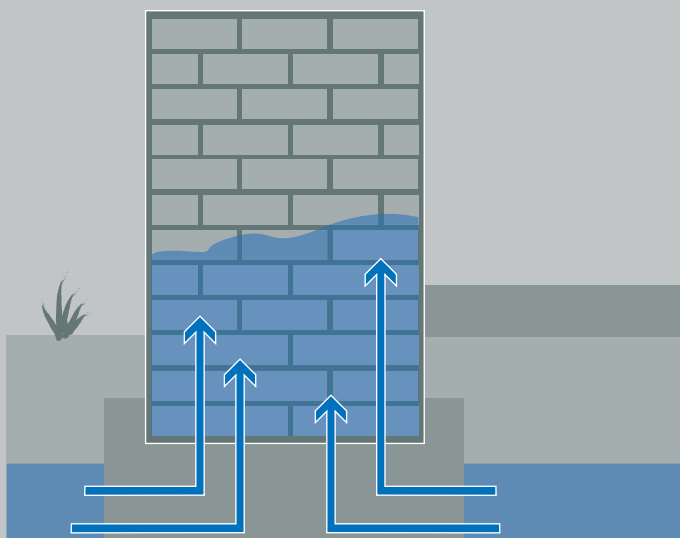
(1) condensation dampness



(2) capillary dampness, indoors



(3) capillary dampness, outdoors



Different methods of combating dampness

Condensation dampness

Drying out and renovation of water damage can often only be achieved by massive technical use of e.g. dehumidifiers and further equipment.

→ Ventilating systematically

When condensation dampness appears, it can often be controlled by ventilating the rooms systematically.

Capillary dampness

In case of capillary- or also rising-dampness (pictures 2 and 3), you have to pay attention to the following.

→ Poor or no vapour barriers

In the case of capillary dampness, the vertical and horizontal barriers which are supposed to prevent water from finding its way into the walls, are often poor or not existing on or in the walls, so that water can be absorbed through the exposed area.

→ Development of overpressure by water

The dampness absorbed by the exposed area can develop pressure through the water's surface tension and through existing capillaries (hair lines) in the material and start rising to the top. The thinner the capillaries, the more pressure develops and the more rises the water. Electrochemical processes also play a large and decisive role in this process.

→ Sealing isn't a solution

If you seal walls with vapour-tight lining or by coating, the water rises until a balance between evaporation, capillary absorption and buoyancy is created.

The solution has a name

To solve this complex problem **permanently yet with ease**, we have developed the **BCV MT-R®** for drying out walls.

Movement of water

Because of the fact that water moves from a **positive pole** to a **negative pole** (rising movement), a **weak negative electric field** develops due to **triboelectricity** which also intensifies the capillary absorption – as described on page four.

The difficulty in brief

- Dampness rises through capillary forces and surface pressure
- An electromagnetic field develops through friction
- This increases further absorption of water

The perfect solution

Already 180 years ago it was discovered that **water moves as a dipole from the positive pole to the negative pole in the electric field**. On the basis of this discovery, it was possible to develop the perfect system of the **BCV MT-R®** for drying out walls.

The reversal of this electric field through **weak transmitter impulses** causes **water to move to the negatively charged soil**, thereby **allowing the walls to dry out**.

- **BCV MT-R® reverses the electromagnetic field**
This causes water to change its direction of travel and it is pushed back into the soil.
- **BCV MT-R® desalinates your walls**
BCV MT-R® is the first system which actively desalinates your walls without having to use probes.

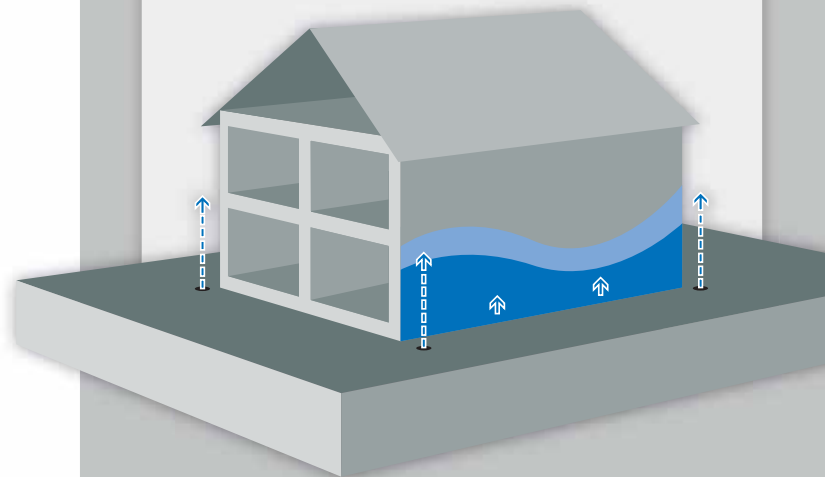
The result:

Dry-out and desalination of the walls!



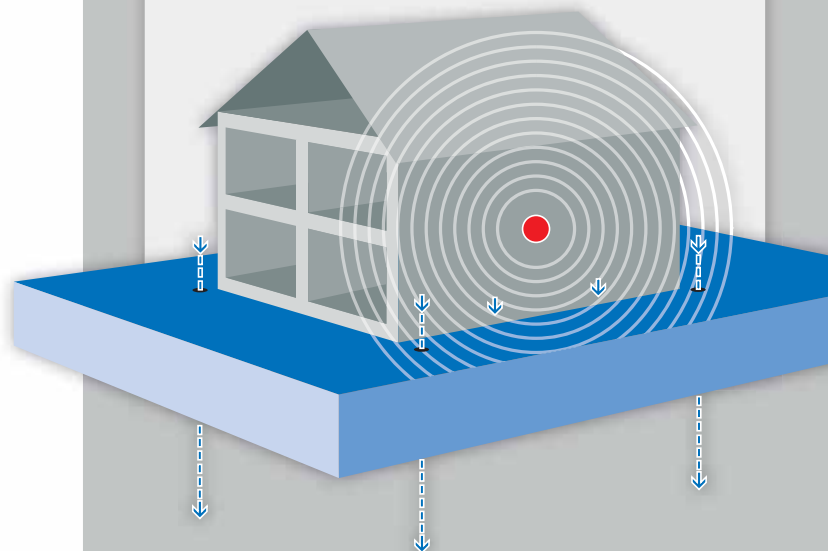
ACTUAL SITUATION without using the BCV MT-R®

- (-) Negatively charged **Wall**
- (+) Rising **water in the wall**
- (-) Negatively charged **soil**



Reversal to the negative pole by using the BCV MT-R®

- (+) Positively charged **Wall**
- (+) **Water** is pushed back into the soil
- (-) Negatively charged **Soil**



Our services at a glance



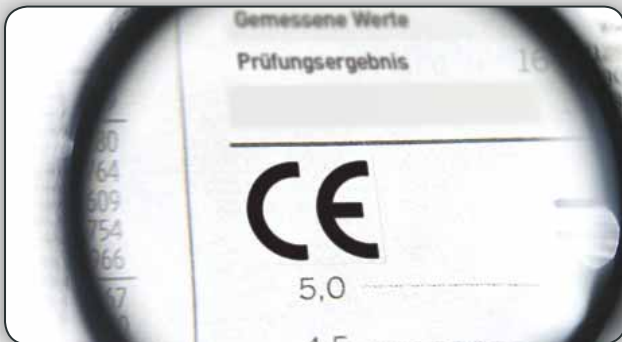
→ Competent advice

→ Pre-analysis



→ Measuring of dampness

→ Installation of the BCV MT-R® System



→ Report on the actual situation

→ Desalination of the walls without probes

→ Dry-out of the walls environmentally friendly and no renovation required



→ Post-analysis

→ Final report

Advantages and technical data of the BCV MT-R[®]

Your advantages when using the BCV MT-R[®]

- No construction work
- Shorter dry-out times of the walls compared to mechanical methods
- Protection of the structure, no electrodes have to be placed inside the walls
- Can be used with all walls of all thicknesses
- Maintenance-free, low electricity costs
- Environmentally friendly (no chemicals)
- Better heat insulation through dry walls
- Lower heating costs
- Utilization of empty rooms
- The musty odour disappears and the mould dies down
- Decrease in humidity
- Short amortization period
- Noiseless operation
- A German brand-name product with a - 5 year warranty on the device

Technical Data

Power supply:	230 volt
Adapter:	12 volt
Connection cable:	1,5 metres
Energy consumption:	around 20 mW/h
Electricity costs:	around 9 Euro per Year
Dimensions:	Length: 300 mm Height: 200 mm Width: 100 mm
Transmitter:	Sends electromagnetic waves in low frequency range
Emission:	5uW/cm ²
Weight:	1,220 kg
Range:	3 different units with operational grades effective within a radius of 30, 50 and 70 Metres
Operating position:	Vertically on the wall
Norms:	Conforms to EU norms and is CE -conform



Lasting · Safe · Reliable



HEAD-QUARTER:

BCV Deutschland GmbH
Voltastraße 4
70376 Stuttgart (Germany)
Tel. +49 (0) 711 / 520 890-15
Fax +49 (0) 711 / 520 890-29

Visit also our homepage for further
information.

Web www.bcv-deutschland.com
E-Mail info@bcv-deutschland.com

Selling-Partner