AQUASTOP – electronic wall drying system

Drying method description
A noninvasive method of insulating against horizontal damp, patented in Austria in 1991 (patent no. 39',08). These devices are very small electronic units with a power output of only 2.5W. They have been designed to be installed in locations where they can affect the entire building, such as basement walls or on the ground floor of buildings without basements. An electromagnetic field is emitted which evacuates moisture to the ground and creates a horizontal insulation that prevents moisture from being re-absorbed. The devices can be installed while the building is in normal operation, without the need for any construction works, regardless of the season or the weather conditions.

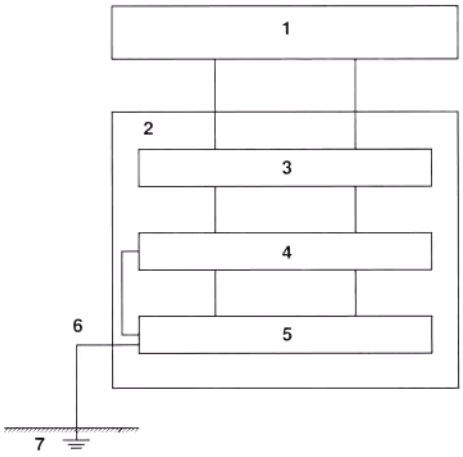
Characteristics and application
- This method is effective for any wall thickness and for most construction materials (brick, stone, mixed material wall).
- Independent of the Earth's radiation energy.
- Affects all building walls within range of the device's beam.
- Cheaper than traditional methods in most cases.
- Tested in many buildings in Poland.
- References from heritage conservation services.
- Devices come with a 25-year warranty.

Technical description
Type: Aguastop model 1001 Operating frequency: 9 Hz
Radius of action: 13 m
Dimensions: width - 19.5 cm; height - 16.0 cm; depth - 10.5 cm;

Device installation
Mount device on wall using three 6 mm dia. anchor bolts and connect to 220-230V 50 Hz power socket.

Product marking
Funktion – device operation indicator lamp.
Kontrolle – socket for connecting device operation tester.

Block diagram of device
Control unit (2) is powered by a 36V direct current power supply (1). The power supply consists of a transformer and a rectifier unit fitted with filter condensers. Direct current is supplied to the control unit (2) by a double-conductor cable with a plug. Direct current supplies power to the oscillator system (3) to produce a stimulating impulse between 1 Hz – 50 kHz. The produced pulsing current is fed via two conductors to a resonant circuit (4), which oscillates together with its own resonator in a pulsing suppressed manner. The resonant circuit (4) is connected via a double-conductor cable tuned to the resonator (5). The resonant circuit (4) is electrically connected to a collective cathode (7) through a screened conductor (6) via a rectifier.



Block diagram
AOUASTOP model 1001: 1 – power supply 2. – control unit. 3 - oscillator. 4 – resonant circuit. 5 - resonator. 6 – screened conductor. 7 – collective cathode

General notes
The device is maintenance free after installation and connection to mains power. Repairs carried out by unauthorised persons may damage the device and void the warranty. In case of device failure please contact your seller.

Attestation and certificates
*A*QUASTOP method has safety certificate B/13/2534/01/BT/D and hygienic attestation B-1662/97. Expert opinion from the National Radiocommunications Agency (15/EMI/LP/97); expert opinion from the Austrian Research Centre (IE-EMV-S 34/97); references from the Heritage Conservation Services. *AQUASTOP* was awarded a diploma and medal at the 4th Historic Building Conservation and Renovation Exhibition ANTIKON'99 in the "Service of the year" category.