

Nem Kutusu

Electromagnetic rising damp drying device · Model 130

907 m² COVERAGE · 30-YEAR WARRANTY



PRODUCT DESCRIPTION

DRYVATEC Nem Kutusu is a wall-mounted electronic device developed to address rising damp in buildings without chemicals and without demolition.

Chemical injection works in masonry walls; it requires a cross-section with a capillary network. Reinforced concrete walls, columns and foundations have no such network, so injection cannot be applied. The Nem Kutusu fills exactly this gap: it operates independently of the material of the structural element and covers a wide area from a single unit.

The device runs continuously; there is no reservoir, filter or consumable. Drying takes 6 – 12 months depending on the cross-section, material and moisture load of the building.

IT IS NOT A DEHUMIDIFIER

The Nem Kutusu does not collect moisture from the air and must not be confused with reservoir-type dehumidifiers. Its target is the capillary moisture within the wall cross-section — it dries the building fabric, not the room air.



FIELDS OF APPLICATION

- Capillary damp in reinforced concrete walls, columns and foundations — elements where injection cannot be applied
- Historic and listed buildings requiring non-invasive drying
- Occupied buildings where demolition or relocation is not possible
- Large-footprint buildings requiring coverage from a single point



TECHNICAL DATA

DEVICE SPECIFICATION	
Product type	Electromagnetic rising damp drying device
Model	Nem Kutusu 130
Effective radius	17 m
Coverage area	approx. 907 m ²
Supply voltage	220 V AC / 50 Hz
Power consumption	1.2 W
Power supply	Supplied with the unit
Housing material	ABS
Dimensions (W×H×D)	258 × 212 × 41 mm
Net weight	1.2 kg
Gross weight	1.6 kg
Noise level	0 dB (silent)
Operating indicator	LED
Maintenance	None required
Drying time	6 – 12 months
Warranty	30 years device + 1 year result

Values are typical figures obtained at +23 °C / 50 % relative humidity.

CONFORMITY AND STANDARDS

TS EN 62233 — measurement of electromagnetic fields from household appliances
EN 61000-6-1 / EN 61000-6-3 — EMC
EN 61000-3-2 / EN 61000-3-3
ICNIRP exposure limit values
EU Council Recommendation 1999/519/EC

These standards cover the electrical safety and electromagnetic compatibility of the device.



WHEN NEM KUTUSU, WHEN INJECTION?

SUBSTRATE / WALL TYPE	STATUS	NOTES
Reinforced concrete walls, columns, foundations	● Suitable	No capillary network; injection cannot be applied
Historic or listed building, untouchable surface	● Suitable	Buildings where boreholes are not permitted
Large area, many walls	● Suitable	Whole cross-section covered from one unit
Solid brick, pumice, aerated concrete masonry	● Conditional	DampStop injection gives faster results; may be combined
Active water leak, plumbing failure	● Not suitable	The source must be eliminated first
Surface damp caused by condensation	● Not suitable	A ventilation and thermal insulation issue
Hydrostatic pressure on below-grade walls	● Not suitable	Requires tanking



INSTALLATION RULES

- The device is mounted in the central area of the building so that the whole coverage area is enclosed.
- It is fixed directly to a load-bearing wall using the two plugs and screws supplied.
- Mounting height must be between 25 cm and 1 m above floor level.
- It must be placed at least 1.50 m away from any electronic device.
- The device must remain permanently connected to the mains and its position must not be changed afterwards.
- The LED indicator should be checked regularly to confirm operation.



MEASURES THAT ACCELERATE DRYING

- 01** Strip damaged render and paint at the base of the wall to approximately 10 cm above the affected area so that the wall can breathe.
- 02** Maintain continuous air circulation in the room; evaporation depends on it.
- 03** Leave a gap of at least 1.5 cm under doors in normal rooms and 2 cm in wet rooms.
- 04** Do not re-render or paint the wall until drying is complete.



DRYING PROCESS AND EXPECTATIONS

MONTH 0	MONTHS 1-3	MONTHS 3-6	MONTHS 6-12
● Installation Device mounted and commissioned	● First decline Surface moisture falls, odour and mould recede	● Cross-section Water continues to drain from the wall	● Completion Moisture stabilises, surface can be sealed

Drying time varies with wall thickness, material, salt load and ventilation conditions. The device does not produce an immediate result. It is normal for the damp mark to remain visible on the surface during the first months; what matters is the downward trend in the monthly readings.

COMMON MISTAKES

- **Mounting the device next to electronic equipment**
A distance of at least 1.50 m must be maintained; closer mounting disturbs the distribution of the field.
- **Mounting on a non-loadbearing partition**
The field must radiate from the load-bearing cross-section of the structure.
- **Unplugging the device overnight or during holidays**
When the field is interrupted drying stops and the process starts again.
- **Rendering and painting before drying is complete**
The surface is sealed, evaporation ceases and moisture remains in the cross-section.
- **Starting without a reference measurement**
Progress cannot be demonstrated objectively and warranty assessment becomes disputable.

MONITORING AFTER INSTALLATION

- **LED check:** the indicator must remain lit. If not, check the supply and socket; if the fault persists contact the supplier.
- **Reference measurement:** take and record moisture readings at defined points before commissioning.
- **Periodic measurement:** repeat at the same points at 3, 6 and 12 months; the trend must be downward.
- **Visual monitoring:** reduction of salt efflorescence and disappearance of the musty odour indicate progress.
- **The result warranty depends on these records and on compliance with the installation rules.**

FREQUENTLY ASKED QUESTIONS

- S Will it affect my electricity bill?**
The device draws 1.2 W — about one tenth of an LED lamp. Annual consumption is around 11 kWh.
- S Will it affect Wi-Fi or household appliances?**
Electromagnetic compatibility has been tested to the EN 61000 series. A minimum distance of 1.50 m from electronic devices is nevertheless observed.
- S Should it be used together with injection?**
In masonry walls DampStop injection gives faster results. In reinforced concrete structural elements only the Nem Kutusu works; in mixed structures both are used.
- S Is the field it emits harmful to health?**
The device has been measured to TS EN 62233 and found to comply with the ICNIRP and 1999/519/EC general public exposure limit values.
- S Is it a concern for pacemaker users?**
The device complies with general public exposure limits. Persons with implanted medical devices should nevertheless consult their physician.
- S Can I take the device with me if I move?**
The device can be removed and mounted in another building. Drying will however stop in the original building and the damp will return over time.



WARRANTY

30 years manufacturer warranty on the device and 1 year result warranty on the application. The result warranty is conditional upon compliance with the installation rules and drying measures.



INSTALLATION AND MAINTENANCE

Supplied with a separate power supply unit. No reservoir emptying, filter change or periodic maintenance is required. The device must not be opened.



LIMITATIONS

Not a solution for damp caused by active leaks, hydrostatic pressure or plumbing failure; the source must be eliminated first. Drying completes in 6 – 12 months, not immediately.

POSITION WITHIN THE THREE-STAGE SYSTEM

Nem Kutusu completes the system in reinforced concrete structural elements that chemical injection cannot reach.

01 DampStop

Horizontal chemical barrier inside the wall

02 HydroFix

Water-repellent surface renovation layer

03 Nem Kutusu

Electromagnetic drying in reinforced concrete

LEGAL NOTICE

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