

NIS Non-Icing-System

Preventive system against
icing of overhead wires



STEMMANN PRODUCTS

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Effective protection against icing



The icing of overhead contact wires is a common and serious problem during the winter months. Icing interrupts the constant contact of the roof mounted pantograph to the overhead wire and thus interference-free current flow. As a result, there may be delays in the timetable or train cancellations.

In critical weather conditions the overhead wire is preventively coated with an anti-freezing compound by means of our „NIS device“ (Non Icing System). The system basically consists of two components - a special pantograph on the vehicle roof or on a separate "trailer" and the base unit in the vehicle interior.

NIS - the efficient system to prevent overhead wire icing in critical weather conditions.



Function and operating conditions

SYSTEM COMPONENTS/-DESIGN

Special roof-mounted pantograph incl. felt roller to coat the overhead wire with anti-freezing compound

Base unit incl. anti-freezing compound tanks and technical components inside the rail vehicle

Backflow and storage system for surplus anti-freezing compound inside the rail vehicle

As an alternative to mounting the entire system on/in the rail vehicle, we offer the system as an autonomous unit on a separate "trailer"

OPERATING CONDITIONS

Operating speed for applying the anti-freezing compound; ~ 30 km/h

2 to 3 days effective duration of protection - due to weather conditions

Ensure higher ride comfort and increased driving safety for your passengers and rail vehicles



optional compressor unit



Special pantograph and supply unit

SYSTEM ADVANTAGES

Reduction/prevention of delays in passenger service

Avoids potential damages of the vehicle electronics through contact interruptions

Reduced carbon wear through better contact performance of the contact strip to the overhead wire

Increased ride comfort and increased driving safety during winter operation

Moderate expenses for required resources (consumption approx. 20l anti-freezing compound per 100 km)

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