

HVAC Solutions for Railway Infrastructure

Safe Operation Through Smart HVAC

The **reliable operation of railway infrastructure** depends on suitable environmental conditions for critical technical equipment.

Telecommunications systems, emergency communication networks, technical rooms and tunnel infrastructure must be protected against excessive heat, inadequate ventilation, air quality issues and other **environmental influences**.

With **comprehensive expertise in HVAC engineering, thermodynamics and railway operations**, we develop tailored solutions for cooling, ventilation and climate control.

Our engineering, measurement and consulting services support customers in evaluating thermal conditions, airflow behaviour and operational risks, **ensuring safe, reliable and efficient infrastructure operation** throughout the entire asset lifecycle.



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Our services

- HVAC engineering consulting for infrastructure
- Cooling, ventilation and air-conditioning concepts
- Thermal design and assessment of tunnels, technical facilities and infrastructure assets
- Cooling load, airflow and temperature simulations
- Evaluation of air quality, humidity and pollutant concentrations
- Assessment of smoke propagation, smoke tightness and battery off-gassing
- Measurements and analyses using specialized climate and airflow instrumentation
- Support throughout planning, construction, commissioning and operation

Your advantages

- Prevention of failures in operationally critical infrastructure
- Increased availability of telecommunications, emergency communication and safety-related systems
- Greater planning certainty from the earliest project stages
- Verification of compliance with thermal, environmental and operational requirements
- Tailor-made solutions instead of standard approaches
- Unique combination of thermodynamic expertise and railway system knowledge
- Advanced measurement capabilities for accurate on-site assessments
- End-to-end support throughout the infrastructure lifecycle

Your contact

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