



Modular Services



Comprehensive services for maximum operational reliability and efficiency

► Our comprehensive service ensures reliability

IT availability begins and ends with the smooth functioning of the hardware infrastructure and the server rooms. A comprehensive range of RimatriX5 services ensures maximum operational reliability and availability coupled with a high level of efficiency, because there is nothing more expensive than a malfunction which brings business to a standstill!

IT failures cost companies hard cash!

The availability of IT systems is increasingly becoming a top priority. Even the smallest IT problem can lead to a tenfold increase in the annual downtime, in some cases with serious economic consequences for the companies concerned.

Liability rests with the IT decision-maker!

“Basle II” and “Solvency II” have significant implications for the liability of IT decision-makers.

Inadequate IT reliability makes lending more expensive!

As a consequence of “Basle II”, banks now assess a company's IT systems. If an increased risk is ascertained, loans are only granted at a premium.

RIMATRIX5[®]
DRIVING IT-PERFORMANCE

In RimatriX5 Rittal, offers its customers an integrated, complete solution for outstanding IT performance with a comprehensive range of services and perfectly coordinated IT modules: Rack, power, cooling, security, monitoring & remote management.



► Total peace of mind with the Rittal service chain

Solutions from Rittal International are just as individual as our customers' businesses. We highlight risks and optimisation potential, and the customer selects the most appropriate and cost-effective measures for his company's IT. Rittal then ensures that all the components are perfectly coordinated with one another.



Rittal offers systems for uninterrupted business continuity with a calculable return on investment.

► Analysis: Your requirements form the starting point

Rittal will visit you on site to discuss the various technical solution options and future-safe technology trends. The RimatriX5 safety checks and Rittal climate checks provide IT managers with a professional analysis of their IT structure and climate control technology.

RimatriX5 safety checks – Professional advice for maximum efficiency

Check 1: Structural design

- Location in the environment and building
- Design of the IT rooms compliant with standards (to DIN 4102, EN 1047)
- Structural design of the IT room
- Room height, double floor
- Structural fire protection, separate fire lobbies
- Computer arrangement in the IT room
- Interior installation

Check 2: Power supply

- Schematic diagram from the utility supply to the consumer
- Logging of the rated output and hardware data
- Network configuration check
- Installation design of server
- UPS/emergency generator check
- Redundancy
- Visual control of earthing/potential equalisation and lightning and overvoltage protection

Check 3: Climate control technology

- Climate control equipment concept
- Coolant
- Logging of the required cooling output
- Distribution of incoming air in the room
- Redundancy
- Limit monitoring
- External equipment
- Maintenance contracts

Check 4: Security/fire alarm systems

- Site monitoring
- Building monitoring
- Room monitoring
- Window/door protection, padlock device
- Intruder alarm centre
- Fire alarm concept
- Fire extinguisher concept

Check 5: Operational/emergency organisation

- Data protection
- Use of electrical equipment
- Paper/data carrier disposal
- Plant cleaning
- Disaster manual
- Restart plan



A thorough analysis provides the basis for a convincing IT infrastructure.

Rittal climate checks – Service packages for every aspect of IT cooling

Load test

482.6 mm (19") slide-in equipment which simulates the thermodynamic response of servers allows you to determine in advance whether your cooling system is adequate for any planned extensions. Furthermore, after installing the LCP (Liquid Cooling Package) family, the cooling response can be tested directly, without the presence of a server.



Load tests as the optimum planning basis.

Intelligent wireless sensor technology

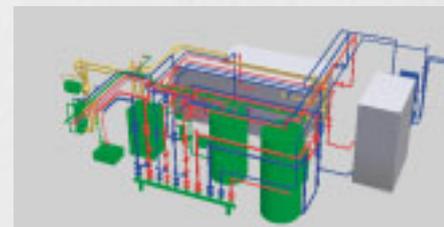
Sensors the size of a button record the temperature and humidity at precisely specified locations in the rack. The location and time-dependent readings are extracted and displayed. The result is a 3D analysis of the data centre's cooling response.



Sensor technology for 3D analyses.

Piping network calculation

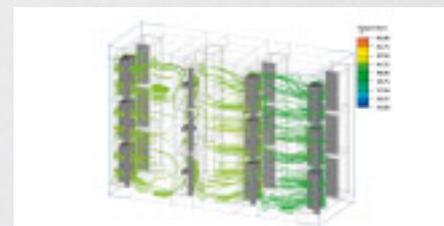
The Rittal specialists use a software package to design and dimension the pipe networks of liquid cooling systems, with due regard for the architectural conditions. The specifications thereby obtained allow the local installation engineer to start work immediately.



Perfect dimensioning of pipe networks

CFD (Computational Fluid Dynamics)

A 3D computer simulation is used to display the thermodynamic response of the planned data centre with server racks and climate control system. Predicting the temperature, speed, pressure and hence flow conditions in the data centre facilitates fast reaction times.



Forward planning with CFD.

Thermography

Using a thermal imaging camera which displays the temperature conditions (surface) inside the data centre, it is possible to locate and eliminate hotspots via suitable means.



Localisation of hot spots via thermography.

► Advice and planning: The basis for optimum solutions

The special Rittal RimatriX5 planning software, RiGetIT, allows you to select and coordinate the required components to perfection. This leads to an optimum, future-safe, holistic solution based on close collaboration between all the relevant experts. As well as careful project planning, which includes room planning as well as component selection, design of climate control systems and service planning, Rittal's customers can also be confident of perfectly coordinated project organisation.

RiGetIT – Peace of mind from day one!

A reliable, efficient complete system depends on the optimum configuration of all components. RiGetIT is the user-friendly, efficient planning and configuration software for packaging of the IT infrastructure. The unique combination of configuration and monitoring software guarantees that the appropriate remote management software is supplied for every IT infrastructure.

- RimatriX5 for the entire infrastructure
- Individual room planner
- Plausibility checks
- Database for the remote management software RiWatchIT

Climate concepts to order

From passive air-conditioning to active liquid cooling of high-performance CPUs, Rittal designs all components and systems to the customer's precise requirements and application spectrum. Software-assisted planning and calculation of requirements, together with modular, rack-optimised technology, help to minimise investment costs, culminating in an exceptionally future-safe solution with a high degree of flexibility.



Project planning with perfect timing

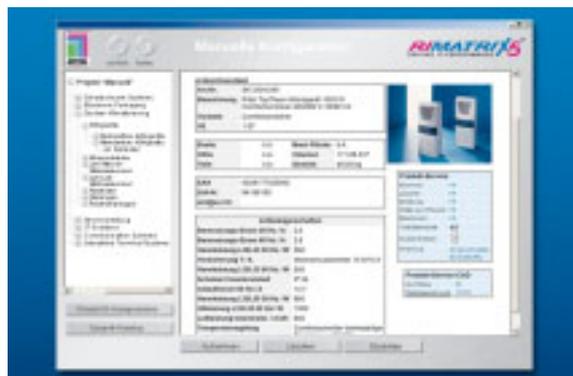
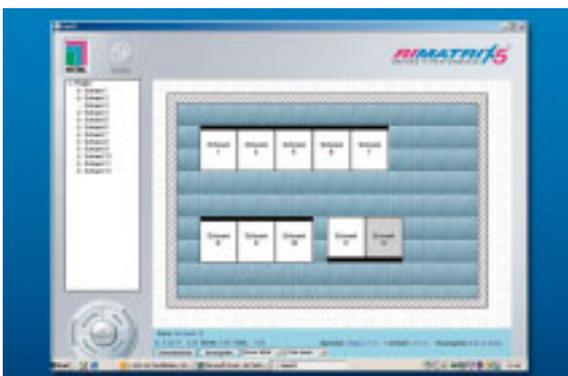
Rittal's timely installation and commissioning planning service is exemplary. For every project, we draw up an optimised timetable, covering every aspect from the room planning through to installation of the individual RimatriX5 systems.

Superbly organised

With Rittal, perfect commercial and technical project organisation goes without saying. This includes selecting the components, ascertaining requirements and calculating quotes, as well as appointing a project manager and reliable SAP-assisted order and project handling.

Based on a one-to-one consultation, we develop reliable, efficient solutions.

RiGetIT is the user-friendly, efficient planning and configuration software for packaging the IT infrastructure.



► Implementation and logistics: Directly from the manufacturer

Rittal configures and manufactures the hardware for the IT infrastructure itself. All RimatriX5 components are comprehensively tested, and the delivery is checked for completeness. The installations and related dates are then planned in detail.

System integration at a high level

Rittal supplies complete system integration up to Level 4. In accordance with customer requirements, Rittal integrates modular components into a complete system, either at the factory and/or on site. The benefits to you: Only one project partner, significantly reduced planning and assembly work, and minimal logistics and procurement input.

Made by Rittal – High quality ex works

State-of-the-art production techniques and quality processes, with thousands of products manufactured each day – our perfection never ceases to please Rittal's customers worldwide.

Rittal logistics – Smooth-flowing

Complex IT infrastructure solutions demand particularly reliable logistics to prepare for installation and ensure the minimum possible disturbance to operations. Rittal controls these logistics and ensures that customers are kept well-informed at all times.

- Free carriage to the point of use (delivery to the data centre/installation site)
- Special transportation (e.g. heavy-duty crane)
- Vibration-damped HGVs for transporting highly sensitive electronics
- Just-in-time delivery according to the plan
- Environmentally friendly disposal of all packaging

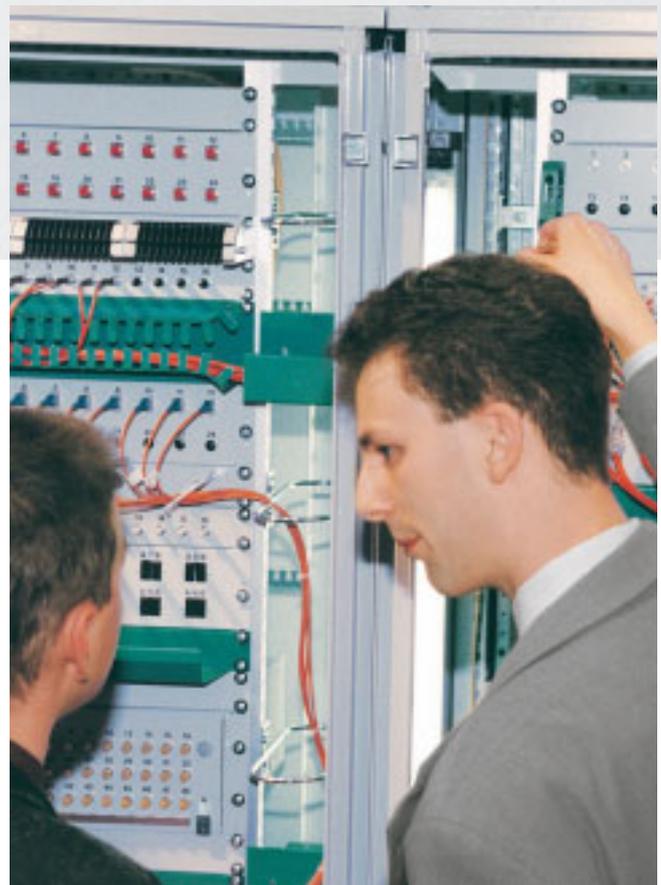
► Installation and commissioning: The added service for a flying start

For Rittal, installation also means integration. All new and existing components must be united into one functioning complete system. For this reason, on-site installation and assembly is carried out by trained specialists. Extensive functional testing and careful instruction with operator training provide the finishing touch to our services.

Rittal installation and commissioning service – Value-added comes as standard

The Rittal commissioning service follows on from the assembly service, once an installation has been fully assembled and installed. The Rittal technician provides a comprehensive range of services within the context of commissioning.

- Check of the existing installation and assembly
- Parameterisation of the control units
- Expert sign-off
- Functional testing of all active components
- Brief induction and operating instructions for staff



► Maintenance: You can rely on us

The comprehensive Rittal Postsale Service guarantees optimum operating times and system availability. Choose from four different RimatriX5 safety packs or individual maintenance contracts. The remote management software is a key element, which allows the efficient monitoring and control of your data centre, through to automated escalation management.

Package 1: SafetyPack-call

With this flexible SafetyPack variant you are only charged for the services you actually use. Our service hotline is available at preset times. In conjunction with a response time of just 2 working days, this is the basic variant of the SafetyPack.

Package 2: SafetyPack-pro

SafetyPack pro includes all the same services as the SafetyPack-call at an attractive fixed-rate price. This package also includes all travelling time and labour, as well as one preventive maintenance visit per year, for flexible basic protection.

Package 3: SafetyPack-exclusive

With significantly shorter response times of just 24 hours during regular business hours, the availability of your IT infrastructure is increased several times over. This includes related charges, as well as the cost of the hotline, travel times and labour, plus one preventive maintenance visit per year.

Package 4: SafetyPack-premium

The “all-round care-free package” covers every eventuality. A dedicated 24 x 7 telephone hotline, combined with short response times of up to 4 hours, 365 days a year, with pre-included replacement of wearing parts, are among the distinguishing features of our top-of-the-range service package.

RiWatchIT: Everything under control!

The RiWatchIT software forms the basis for effective monitoring and remote management, allowing the operator to monitor and control the on-going operation of a data centre. Comprising visualisation, alarm system and control of the IT infrastructure, the tool offers holistic escalation management from a single software interface.

- Active power management through to each individual socket
- Holistic climate management in the data centre
- Video surveillance of the server room and documentation
- Access control
- Preventive security



The RiWatchIT software is the monitoring software for RimatriX5.

▶ **Rittal International –
A powerful full-service network**



Rittal

One of the world's leading suppliers of data centre solutions with Rittal Rimatrix5: Rack systems, system climate control, rack security, power distribution and back-up.



Lampertz

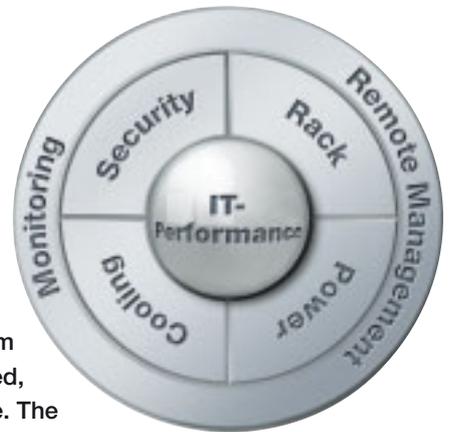
One-stop supplier of security-critical data centre structures, offering modular IT security solutions for IT rooms, functional reliability, maintenance and repair.



Litcos

One of Europe's leading specialists in the analytical consultancy and holistic planning of data centre structures.

▶ RimatriX5 – Complete solutions for a reliable IT infrastructure

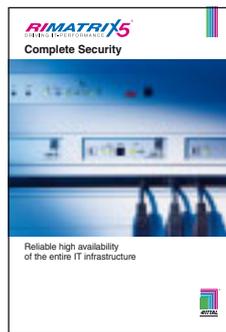


To a large extent, the performance of the IT infrastructure is reliant upon optimum interaction between individual components. Rittal RimatriX5 is the rack-optimised, holistic, scalable, super-efficient system solution for outstanding IT performance. The strategy behind the RimatriX5 concept is based on five optimum stand-alone solutions, an integral security package, plus a comprehensive range of services.



Modular energy back-up and distribution in the IT and data centre for a constant, consistent energy supply.

RimatriX5 Permanent Power



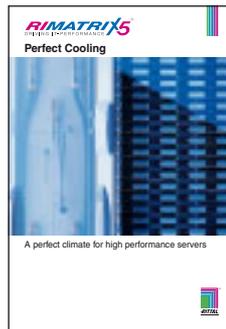
Physical rack and room protection are pivotal to ensuring high availability of the entire infrastructure.

RimatriX5 Complete Security



Holistic escalation management for the entire physical network infrastructure.

RimatriX5 Monitoring & Remote Management



Custom-configured climate control concepts for high-performance cooling.

RimatriX5 Perfect Cooling

Simply tick the relevant boxes to request your copies:

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