

reflex

Thinking solutions.

Project solutions

Holistic advice, planning and project support



Our portfolio for customised facility planning

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Welcome to Reflex

What drives us

Reflex Winkelmann GmbH is a leading international solutions provider for the planning and execution of water-bearing systems in building and supply engineering. We see ourselves as a driving force in the development of world-class products, intelligent concepts and highly efficient solutions for facilities of every size and level of complexity.

Holistic thinking, an eye for interconnections and solution expertise in every detail – that is the benchmark we work to. At the same time, we are convinced that working together as equal partners is the key to success. To this end we pool technological know-how in heating, cooling and facility engineering. And we are passionate about thinking through complex questions to their conclusion. This makes us a high-performing and dependable partner – especially when it comes to highly sensitive projects, complex major facilities and custom solutions.

In an age in which the responsible use of resources is becoming the key issue, Reflex stands for maximum efficiency, safety, security and sustainability.

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www.reflex-winkelmann.com/int

Our roots

From its early days as a craft enterprise at the headquarters in Ahlen, Westphalia, Reflex has developed into a global company with production sites in Germany, Poland, China and Turkey. Reflex is now committed to solutions that combine extensive know-how and a broad range of products for the benefit of the customer.

Membership of the Winkelmann Group's Building+Industry division means that our customers now benefit from comprehensive production and process expertise, as well as the centralised Purchasing and Logistics departments of an owner-managed group with more than 4,500 employees around the world.

Extensive technological expertise, holistic thinking and systematic customer-centricity make us a reliable partner when highly specific solutions are being implemented.

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Headquarters of Reflex Winkelmann GmbH in Ahlen, North Rhine-Westphalia

Holistic solution expertise from planning through to service

This is what you can expect from us

The project sales team sees itself as your full-service partner in every aspect of water-bearing building technology. You can depend on the concentrated sectoral expertise of our well-coordinated team of experts when it comes to complex major projects.

1 Project planning

- Needs analysis on the ground
- Participation in meetings with planners, facility engineers and operators
- Formulation of solution proposals
- Preparation of needs-based quotations
- Preparation of drawings and PI&D charts
- Needs-based documentation (e.g. with power plant classification system numbers)

2 Execution

- Construction supervision
- Documentation, instructions, technical templates
- Participation in test operation
- Commissioning and associated reporting
- Delivery of approved assemblies with declaration of conformity
- Configuration of controller and fittings, regardless of make

3 Operation

- Maintenance and servicing
- Full service from the certified Reflex after sales and service team
- Complete backup of all project data



Reflex and Sinus at Novotel Centre Ville, Nuremberg

Leverage the efficient synergy of Reflex & SINUS

Our portfolio ranges from pressure maintenance and degassing across separation technology, water make-up, water treatment, hot-water storage tanks and heat exchangers through to highly customised manifold technology. It allows our customers to benefit from the efficient synergy of Reflex and Sinus products – for standard products as well as for custom system solutions and individual production runs.

Detailed planning is perhaps the most important prerequisite for the successful implementation of a project. You can count on our support if your facility has unique requirements. The project sales team will work out an appropriate recommendation for you in complex cases or formulate proposals designed to optimise your existing planning. We obtain a precise image of your needs

on the ground and design a custom solution in close consultation with every stakeholder. Needless to say, we consider all aspects of your facility's economic efficiency in the process – from amount to be invested through to operating and maintenance costs. Our portfolio also includes the creation of drawings, PI&D charts and professional documentation.

Our aim is to contribute to the smooth running of your systems and business with pioneering custom solutions.

+ Your benefits

- + Years of experience in developing custom solutions (power plants, district heating facilities, geothermal energy, etc.)
- + Prefabricated product solutions and complete turnkey systems, e.g. container and skid solutions
- + DIN EN 12953 and TRD 604 certification for hot-water facilities
- + International team with local knowledge
- + Highest quality standards
- + Audited processes
- + Specialised in custom solutions of any kind
- + Broad field of activity (virtually no constraints in respect of facility size, pressures, temperatures, make)
- + Consideration of international standards like ASME, ANSI, etc.



Use our new service to get a quote for your project!
www.reflex-winkelmann.com/int/contact/sales-reflex-international

We are at home in these industries



Experience our Reflex solutions for major facilities using augmented reality.

- 1 Scan QR code: reflex.de/city
- 2 Download the Reflex Smart City app
- 3 Scan this page and learn more

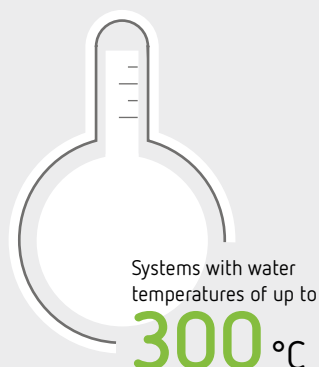
The project sales team is your full-service partner for water-bearing systems in major facilities. Our strength is supporting extensive major projects and facilities with high output, high pressure and water temperatures of up to 300 °C. We provide expert and bespoke advice for the project planning phase across commissioning right through to documentation and maintenance.

Years of experience in all relevant industries and with a wide range of building types are the hallmarks of the project sales team. Power stations, heating plants, hospitals, hotels, residential complexes, factories, data centres – our project sales team is there to provide its know-how as a partner wherever water-bearing

building engineering solutions have to function with high reliability in sensitive surroundings.

Every facility is different. That is why the specific requirements of each customer are always the starting point of our thought process. For example, the comfort of guests and residents has absolute priority in hotel and residential complexes. Fire protection, safety and security are the focus of attention at airports or data centres. But our continuing goal is to keep a facility in optimum condition permanently by using innovative solutions and products. And to minimise energy losses in the process.

This is what we can offer you



Power and heating plants



Gateshead district energy centre

Gateshead Council, UK



Project

Skid solution with special pressure maintenance and degassing for a facility with 22.5 MW output

Achieved goals

Installation costs were reduced and efficiency increased

Reflex product solution

- Skid with 1 x Variomat Giga pressure maintenance station
1 x Servitec vacuum spray-tube degassing unit
1 x buffer tank
- 4 x 8,000 l Reflex expansion vessels with membrane rupture detector

Heating plant, Hamm municipal utilities

Hamm, Germany



Grund heating plant, Böblingen municipal utilities

Böblingen, Germany





Commercial and residential complexes

Havenhuis, Antwerp

Antwerp, Belgium



© Peter Knoop

Project

Pressure maintenance and degassing solution for heating and cooling circuits

Achieved goals

Heating and cooling pipes are in the same circuit and operating perfectly

Reflex product solution

Heating circuit

- Reflexomat Control Touch RS 300/1 with I/O modules as master-slave system and 2 x RG 1000 tanks
- 1 x Servitec 95
- 1 x Fillset

Cooling circuit

- Reflexomat Control Unit RS 90 Touch with I/O modules, Beo Field and 1 x RG 600 tank
- 1 x Servitec 60 GL (glycol compatible)
- 1 x Fillset

Riviera Mall

Moscow, Russia



© 5+design

IQ Quarter

Moscow, Russia



Hotel and office complexes



Novotel Nürnberg Centre Ville Nuremberg, Germany



Project

Dynamic pressure maintenance, degassing and heating/cooling water manifolds with integrated low loss headers

Achieved goals

Maintenance costs were significantly reduced, as the use of Servitec 60 eliminates the need for radiator ventilation in 240 hotel rooms, for example

Reflex product solution

- 1 x SINUS HydroFixx 280/320, SINUS manifold technology
- 1 x Servitec 60 vacuum spray-tube degassing unit
- 1 x Exdirt DN 80 dirt and sludge separator
- 1 x Variomat 2-1/60 pressure maintenance station

Bulgari – Hotel Residence Dubai, UAE



Warschau Spire Warsaw, Poland





Public sector

House of Music, Innsbruck

Innsbruck, Austria



© Günther Egger



Project

Pressure maintenance and degassing concept for underfloor heating and cooling

Achieved goals

Reliable overall system comprising Reflex and Sinus components

Reflex product solution

- 3 x Variomat controllers (VS 2-1/60)
- Heating: Variomat primary vessel (VG 600)
- Cooling: Variomat primary vessel (VG 500)
- Flooring: Variomat primary vessel (VG 200)
- Servitac 30 vacuum spray-tube degassing unit with NG 100L
- 2 x DN 150, 1 x DN 100, 1 x DN 80 Exdirt sludge separator with Exferro magnetic insert
- SINUS manifold technology for underfloor heating and cooling

Hochzirl State Hospital

Zirl, Austria



© tirol kliniken 2015

Wettringen civic hall

Wettringen, Germany



Airports and stadiums



Bahrain International Airport

Manama, Bahrain



Project

Customized overall concept including pressure maintenance, degassing, water make-up and dirt separation

Achieved goals

Maximum industrial safety thanks to reliable pressure maintenance and efficient degassing

Reflex product solution

- 1 x Variomat Giga GH 90 hydraulic unit with GS 3 control module, GG 5000 primary vessel and 5 x Variomat Giga GF 5000 secondary vessels
- 1 x Reflex DE 600 vessel
- 1 x Fillset for water make-up from the potable water supply system
- Exdirt D850 Hi-Cap dirt and sludge separator
- Servitec 130-4

Berlin Schönefeld Airport

Berlin, Germany



2018 FIFA World Cup stadium

Nizhny Novgorod, Russia





Industrial enterprises

Winkelmann Powertrain Components

Ahlen, Germany



Project

Support for the power self-sufficiency project at the Schmalbachstraße site with skid solution and custom-made buffer tanks

Achieved goals

Maximum industrial safety due to redundant pressure maintenance and the use of a Servitec 60, which also reduces energy consumption

Reflex product solution

- 3 x custom-made buffer tanks (44,000 litres each), 100 °C, 6 bar, 200 mm insulation

Skid solution comprising

- 2 x Variomat VS 2-2/60 networked to form one controller, 2 x Variomat VG 5000 primary vessels and 1 x Reflex V 3000 auxiliary vessel
- 1 x Servitec 60 vacuum spray-tube degassing

Holcim cement works

Untervaz, Switzerland



Ankudinovskiy Park

Nizhny Novgorod, Russia



Data centres



InterXion Österreich GmbH
Vienna, Austria



Project

Pressure maintenance for the cooling control centre expanded for the data centre server rooms

Achieved goals

Reliable operation of safety-related server cooling

Reflex product solution

- 2 x Variomat control units (VS2-1/60)
- 8 x Variomat primary and secondary vessels (VG/VF 800)

Finnish data centre*
Finland



Well-known data centre*
Server cooling



* Projects may not be named for reasons of client security.

Our performance promise — Reflex After-Sales & Service

Scan the QR code and find more information about all our services at www.reflex-winkelmann.com/int/services-downloads/after-sales-service/



Supply technology systems are becoming increasingly complex. This is true for both the technology and the documentation and testing requirements. With Reflex After-Sales & Service, you remain in good hands after your purchase. Our years of expertise specialising in the Reflex product world ensure the full safety and functionality of your system.

Our services

Our services range from commissioning, maintenance, remote maintenance and training through to spare-part and repair services — both during the warranty period and beyond. We also offer maintenance contracts to give you long-term cost security.

Warranty extension to five years

Regularly maintaining installed systems and components is vital for the safety and functionality of heating and cooling systems. Wear and tear can then be detected early and promptly repaired. We recommend servicing pressure-maintenance, make-up and degassing systems annually, like expansion vessels.

From now on, you can register your system after it has been commissioned by us or by a service partner certified by us.

Register your products now

and extend your warranty to 5 years!
→ www.reflex.de/en/garantie



Our offer

- Expertise and many years of experience with all Reflex products
- Qualified personnel with expertise in the latest products and guidelines
- Compliance with statutory regulations and therefore also with liability and warranty provisions

Your benefits

- Systems optimally adapted for maximum efficiency and functionality

If you enter into a maintenance contract at the same time, you are entitled to a warranty extension to five years.

Take advantage of this opportunity easily at www.reflex-winkelmann.com/int/services-downloads/after-sales-service/warranty on our home page or simply use the sticker on your product to access registration.

Registration is not only possible at the time of commissioning but is also valid for all systems with a manufacturing date of up to six months from the year of manufacture 2020.

With the new online service order, we are optimising the service for our customers even further. It takes just a few clicks to create the order form, and it can be processed directly in our system. This makes our service even faster and more customer friendly.

Technical Hotline

+49 2382 7069-9546
aftersales@reflex.de



Technical hotline

+49 2382 7069-9505
aftersales@reflex.de



Commercial Processing

+49 2382 7069-7505
aftersales@reflex.de



Leverage our expertise

Excellent planning software



Reflex Solutions Pro – digital services for your system

Our proven configuration tool allow unique combinations of products from the entire Reflex portfolio to be created and dimensioned to suit specific systems. And it can be done for projects of any size – from single-family homes to residential buildings and industrial premises. Whether a single product or a complete system, just enter a few system parameters and Reflex Solutions Pro will quickly and precisely determine the appropriate configuration. Complete documentation, including bills of materials are available for immediate download with must one click.



Register now free of charge and enjoy the many benefits:

- BIM data access
- 3D drawings to download
- Use of pre-planned solutions
- Comprehensive documentation and price overview

rsp.reflex.de/en



ProSinusX – the product configurator for tailored solutions

Configure every Sinus product yourself in just a few steps: The planner can start using the new Sinus product configurator after entering the project's name and location. Registered users can save relevant projects and manage them at any time. Finalised plans can be transferred to a user's CAD drawing software via the most commonly used interfaces. The web-based application ensures that configured projects can be accessed at any time and from anywhere in the world. Users can also prepare tailored tender documents – in GAEB (German Joint Committee for Electronics in Construction), among others.

prosinusx.sinusverteiler.com

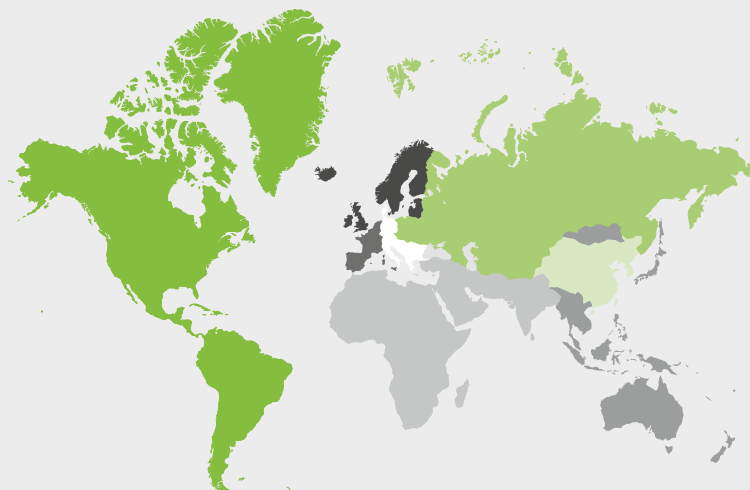
BMS systems

Many of our products can be connected on-site to a building management system (BMS) and can be combined with many different modules and interfaces: This includes **Profibus, Modbus, Ethernet, Bacnet and LonWork or hard-wired signalling systems**. Reflex products are easy to integrate into existing systems to supply the local BMS with the required data.

Audited quality

Reflex products and solutions meet the highest standards in terms of safety, workmanship and quality – as confirmed by independent institutes and service companies.





International technical management

- America
- Western Europe
- Middle East and Africa
- Central Europe
- Northern Europe
- Eastern Europe
- Asia Pacific
- China

Our technical managers are available to answer your questions in person at any time.



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RE1958en_B / 9128899 / 02-2022
Subject to technical modifications



Thinking solutions.

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