



Making Heating Systems Safe – A Complete Range from a Single Supplier

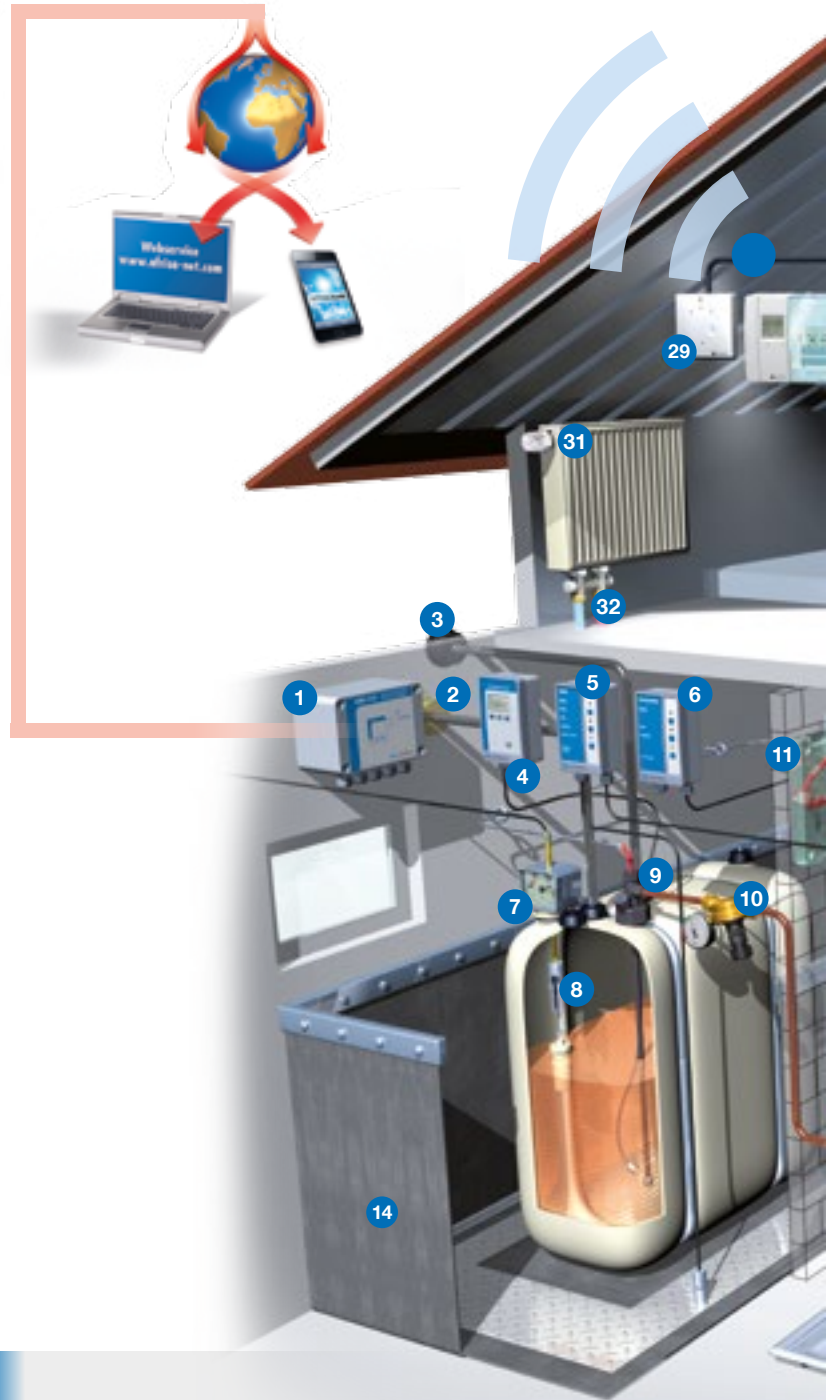
Best for heating systems: AFRISO quality products

AFRISO offers a broad range of products for the safe operation of heating systems. Irrespective of whether the heating system uses renewable energy or fossil fuels.

Anti-siphon valves, withdrawal systems, level sensors, leak detectors, tank room linings and overflow prevention systems increase the safety of fuel oil storage facilities.

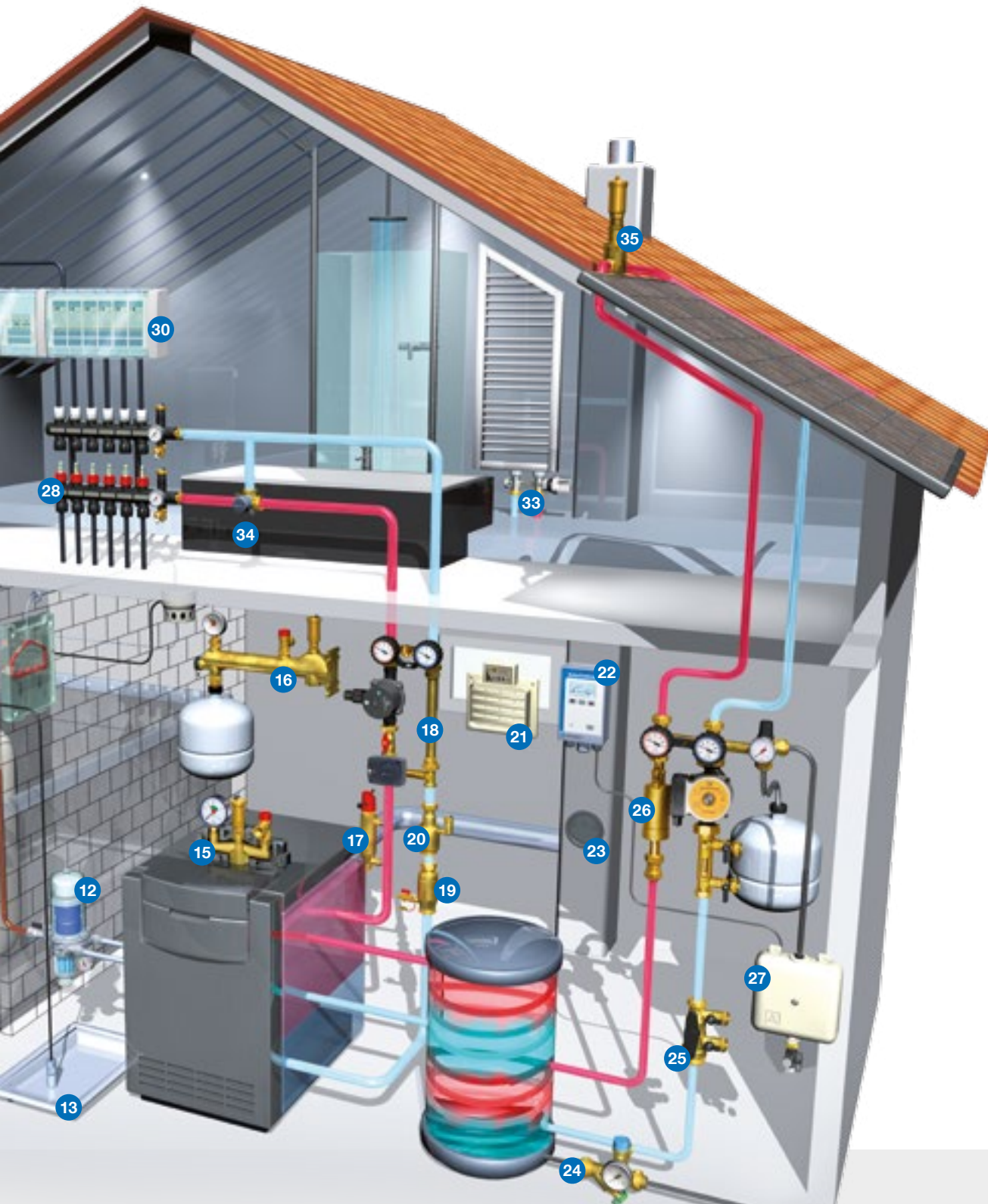
Boiler safety group assemblies, solar and heating pump assemblies, connection assemblies for expansion vessels, anti-tamper cap valves, boiler safety group assemblies, diaphragm safety valves, control thermostats, thermal safety valves and boiler water low level alarms are provided as equipment for heating systems. Fittings for heating, refrigeration and air conditioning control optimum distribution of heat and cold and ensure fast and reliable hydraulic balancing.

This comprehensive portfolio also includes a wide selection of handheld measuring instruments. From simple pressure, temperature, humidity and vacuum instruments as well as level sensor testers all the way to state-of-the-art flue gas analysers: AFRISO products professionally support experts in their daily inspection and servicing activities.



AFRISO products in a heating system

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|---|--|
| 1 Event reporting systems EMS | 11 Pull cord |
| 2 Level sensor filler cap | 12 Automatic fuel oil de-aerators FloCo-TOP-2 |
| 3 Vent cap | 13 Drip pan |
| 4 Digital level indicator TankControl | 14 Tank room linings |
| 5 Oil/water alarm unit ÖWWG 3 | 15 Boiler safety group assembly KSG |
| 6 Gas and smoke detector GRM | 16 Connection assembly for expansion vessels GAK |
| 7 Tank contents gauge MT-Profil | 17 Boiler water low level alarm WMS-WP6 |
| 8 Level sensors GWG | 18 Heating pump assembly PrimoTherm® |
| 9 Withdrawal system Euroflex | 19 Sludge separator |
| 10 Piston type anti-siphon valve KAV | 20 Air separator |



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|----|--|----|--|
| 21 | Motorised boiler room vent Air-Control | 29 | Room thermostat |
| 22 | Solar controller SolarControl® with pressure monitoring | 30 | Single room controls CosiTherm® wired and/or wireless |
| 23 | Draft stabiliser WZB-1 | 31 | Thermostat controll head 320 KH |
| 24 | Boiler safety group assembly | 32 | Combination block VarioQ-Kombi for compact radiators |
| 25 | Filling and flushing unit | 33 | Thermostat combination block Vario THK |
| 26 | Solar pump assembly PrimoSol® | 34 | 3-way mixing valve ARV |
| 27 | Collector tank for solar liquid | 35 | Air separator solar |
| 28 | Manifold ProCalida® for underfloor heating systems | | |

Products for Safe Storage of Fuel Oil and Professional Equipment of Heating Systems.



3 Vent caps

- Plug-on or with female/male thread
- Metal or plastic version



7 Level indicators Unimes and MT-Profil

Universal, mechanical level indicators.

- Adjustable measuring range
- Unimes optionally with litre scales for standard and special tanks



2 Filler cap GWG

For fuel oil EL standard, diesel, bio-diesel or low-sulphur fuel oil EL.

- Bayonet fitting G2 (DIN EN 14420-6)
- Integrated level sensor connection fitting
- Ideal for building renovation projects if the existing GWG wall fitting can no longer be fixed to the outside insulation

21 Motorised boiler room vent Air-Control

For installation in basement windows / ventilation ducts for burner-controlled oxygen supply of heating rooms with oil and gas burners of up to 50 kW.

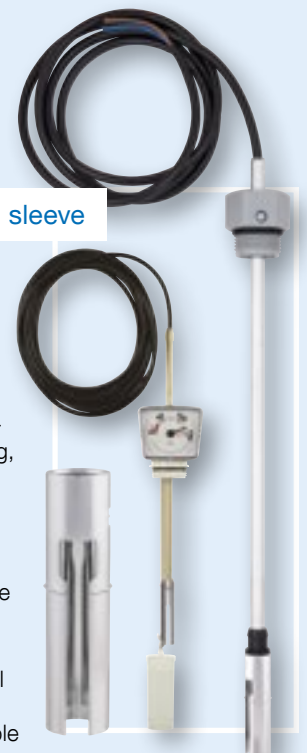
- Saves heating costs, is reliable and silent
- System or room cannot cool down



8 Level sensor with metallised sleeve

The rise in the use of biofuels (EN 14213) results in an environment susceptible to the growth of microorganisms (such as bacteria and fungi). This may cause the level sensor to malfunction and ultimately disable the safety shutoff system. Possible consequences: damage caused by overfilling, long-term odour problems and costly environmental damage. AFRISO level sensors feature a metallised sleeve to protect against such problems.

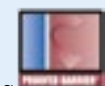
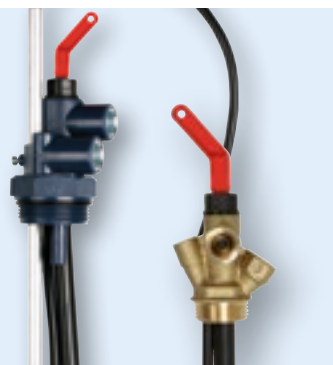
- The metallised surface and the shape of the slot largely prevent the growth of microorganisms.
- Safety for owners, tenants and petrol tanker operators: The fuel oil always reaches the PTC thermistor for reliable shutoff.
- Variable height adjustment
- Complete with connection cable
- Various models: With or without fitting, with MT-Profil gauge and similar



9 Tank withdrawal systems Euroflex and Miniflex

Combination fitting as tank withdrawal system for fuel oil. Complete with quick-action shut-off valve, suction line, measuring line and return connection.

- Flexible suction and measuring line
- Plastic or brass version
- Options include floating withdrawal system and tank heating





5 Oil/water alarm unit ÖWWG 3

Generates alarms in the event of accumulations of liquids caused by tank leaks, backwater, flooding, etc..

- With visual and audible alarms, Test and Acknowledge buttons
- Relay output for additional alarm
- Self-monitoring probe
- Application areas: Storage rooms, manholes, drip pans, double-walled tanks
- Optional: EnOcean® wireless module for integration into building automation systems



6 Gas and smoke detector GRM

For continuous monitoring for explosive gases, vapours and smoke and for generating alarms.

- With visual/audible alarms, Acknowledge button
- Application areas: Heating rooms, basements, offices, living spaces



4 Level indicator TankControl

Level measurement and signalling of minimum levels or level differences in interconnected tanks.

- Optimum use of fuels
- With visual/audible alarms, Acknowledge button
- Graphical indication of consumption and remaining range
- Remote measurements up to 15 m
- For fuel oil EL, L, diesel, biodiesel (TankControl 02), water



For water tanks

Signal anode U

Protects water heaters from corrosion.

- Signal unit outside of the boiler indicates when it is time for replacement.
- For enamelled boilers/tanks with passive protection layers.



For tanks and containers



Pneumatic level indicator Unitop

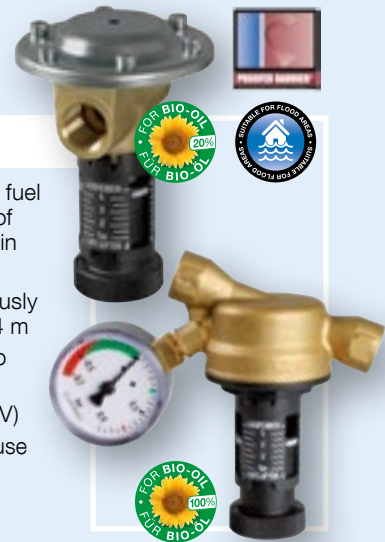
- Dual scale for rectangular and cylindrical tanks
- No power supply required
- Consumption monitoring with date indication
- Remote measurements up to 50 m
- Zero correction possible
- Available for fuel oil, diesel, water and AdBlue®



10 Anti-siphon valves

For oil carrying pipes. Keeps fuel oil from being siphoned out of the tank in the case of leaks in the suction line.

- Height difference continuously adjustable up to a max. of 4 m
- Vacuum of oil burner pump is not increased
- For low line resistance (KAV)
- KAV approved for outdoor use (manhole) to -25 °C



12 Automatic fuel oil de-aerators FloCo-TOP-2 series

With integrated filter, shut-off valve, vacuum gauge, backflow preventer, bypass valve and drain system.

- For use in single line feed systems with oil return line
- Safety system keeps oil foam from escaping
- Filter pollution is indicated by vacuum pressure gauge
- Multiple filtration for maximum separation of dirt particles
- Rotatable service indicator: Pressure gauge indicates when it is time to replace the filter



12 Sintered plastic sieve BLUE for fuel oil filter

- Additional filter surface for longer filter service life compared to standard 50 µm filter inserts
- Optimum servicing properties for fast filter replacement, manufacturer-independent
- High-quality sintered plastic "Made in Germany"

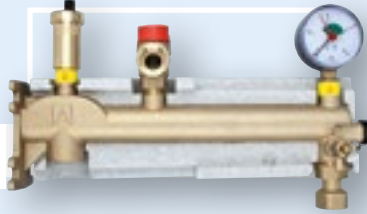




15 Boiler safety group assemblies **KSG**

Complete assembly with pressure gauge, quick air vent and safety valve. For sealed heating systems as per EN 12828.

- KSG: Four performance versions available for boilers with a capacity of up to 350 kW
- Service-friendly GAK: Pressure gauge, vent and expansion vessel can be replaced, draining of the system is not required
- With tightly fitting insulation

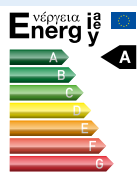


16 Connection assembly for expansion vessel **GAK**

18 Heating pump assemblies **PrimoTherm®**

Connection between heating boiler and pipe system.

- Pre-assembled, tightness-tested and heat-insulated assembly
- Virtually any standard pump can be installed without refitting of the insulation
- Modular system with flow at left or right
- High-grade, robust mixer with adjustable bypass for maximum reliability
- Boiler manifold and bypass valve can be retrofitted



Mounting to heating system pipe/water tank

Diaphragm safety valves

Safety valves for sealed heating systems, drinking water heaters and solar systems.



17 Boiler water low level alarm **WMS**

Mechanical or electronic version for protection of the boiler when the water level is too low..



34 3-/4-way mixing valves **ARV**

- For distribution and mixing
- Rotary knob for precise adjustments
- Low torque for increased service life of actuator



19/20 Air/sludge separators

For clean water, reliable operation and improved heat transfer to hot water heating systems and under-floor heating systems

- Removes lime, rust, sludge and air without using chemicals
- Continuous, automatic de-aeration
- Cleaning during operation
- Continuous operation, no wearing parts



For heating, refrigeration, air conditioning and hydraulic balancing



31-33 Valve range **VarioQ**

Adjustable thermostat valve with fixed, calibrated measuring unit for precise adjustment of the volume flow directly at the valve.

- Patented system for safe and fast hydraulic balancing
- No additional adjustment units (such as line valves) required
- Comprehensive range: Thermostat valves, return screw fittings, combination blocks, combination fittings and suitable measuring instruments

Camper ARMATUREN
a brand of the AFRISO group




26 Solar pump assemblies **PrimoSol®**

For installation between collector and storage tank in intrinsically safe, sealed solar thermal systems.

- Pre-assembled, tightness-tested and heat-insulated assembly
- Great number of versions: Filling and flushing unit, flow meter with ball valve or vent pot
- Comprehensive range of accessories:
 - Solar Controller
 - Solar quick air vent
 - Air separator
 - MAG connection kit
 - etc.

27 Collector tank for solar liquid

Reliably collects groundwater polluting solar liquid in the case of system overpressure.

For controlling panel heating and cooling systems


30 Single room controller **CosiTherm®**

Controls the temperature of individual rooms in connection with manifold systems for heating and cooling. Available as wired version or with EnOcean® wireless technology for easy integration into building automation systems and convenient remote control via smartphone/tablet.

- System can be operated in "Heating" or "Cooling" mode
- Modular design for the connection of a great number of control circuit / room temperature sensors
- Timer module for adjusting temperature reduction (e.g. day/night/holiday programme), pump operating time and valve protection


29 Room temperature sensor wireless/wired

- Measurement and adjustment of room temperature
- Ultra-flat design with a height of 12.5 mm!
- Wireless version:
 - Ideal for retrofitting of existing systems
 - Extremely easy integration into building automation systems
 - Optional humidity measurement

28 Manifold systems **ProCalida®**

- Complex distribution manifolds made of plastic with excellent insulation characteristics (condensate)
- For heating, cooling and geothermal systems
- Numerous combinations in terms of type and number of heating circuits
- Great number of versions: Can be combined with thermometers, flow meters, thermo-actuators, connection valves and many other components.



i For many years, AFRISO has been supplying leading vendors of underfloor heating systems, heating/cooling systems, geothermal systems, drinking water distribution systems and tool cooling systems with a broad range of distribution manifolds.

The company

AFRISO, founded by Adalbert Fritz in Schmiedefeld, Germany in 1869, is an innovative, medium-sized company with a total staff of over 1,000 worldwide, over 500 of which are employed at the five German sites.

Traditionally, we manufacture measuring and control devices for temperature and pressure. For more than 50 years now, we have also been manufacturing measuring, control and monitoring devices and systems for environmental protection:

- Level indicators
- Overfill prevention systems
- Leak detectors
- Fittings for heating systems
- Flue gas analysers



Headquarters in Güglingen



Our leading-edge, market-oriented products and innovations result from our comprehensive know-how, a highly motivated and qualified staff and the fact that we understand what the market needs.

Our portfolio covers everything from a comprehensive range of standardised, proven off-the-shelf products all the way to high-grade customised solutions.

- Research and development
- Tools and equipment making
- Highly versatile and rational production
- Highest quality levels
- National and international approvals

AFRISO stands for leading-edge brand products to meet your requirements.

Environmental management as per ISO 14001 is a matter of course for AFRISO.



For detailed information please request a CD-ROM copy of our complete catalogue at www.afriso.com/catalogue

