

- Combines three functions (air separator, low loss header & strainer) into one compact unit
- Helps prevent expensive repairs, as well as costly, unexpected downtime
- Prevents maintenance issues like dirt, sludge and corrosion build-up
- Improves efficiency and performance saving fuel and money
- Provides a permanent solution that is more effective than chemical inhibitors

# Boiler Guard K

## 3-in-1 Maintenance System

### Boiler Guard K – Air Separator / Strainer / Hydraulic Separator

Boiler Guard from Meibes is an economical and effective way to avoid problems that can shut down a system. Engineered for years of outstanding protection and fail-safe performance, the innovative design combines three functions (air separator, low loss header & strainer) into one compact unit. Boiler Guard improves performance by providing less down time, longer life and greater efficiency.

The heat exchangers and internal components of any boiler are subject to damage and maintenance issues due to dirt, sludge and corrosion build up. Boiler Guard is extremely effective at preventing these problems before they occur in the system. It also protects the entire system from the corrosive effects of dissolved gasses and removes free oxygen which causes pitting and premature system failure. Boiler Guard provides a permanent solution that is much more effective than chemical inhibitors which helps prevent expensive repairs, as well as costly, unexpected downtime. For added protection, the unit can be equipped with an optional magnetic separator.

An optional hydraulic separator function makes the boiler guard an ideal component for all primary / secondary systems (e.g. a radiant floor heating system with a large flow demand and a flow limited high efficiency boiler). The boiler and heating circuits are separated by the low loss connection between the supply and return side.



## Air Separator

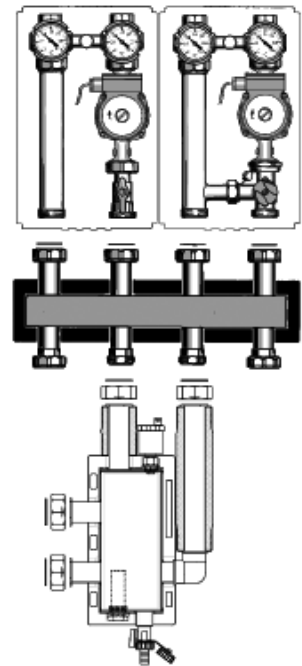
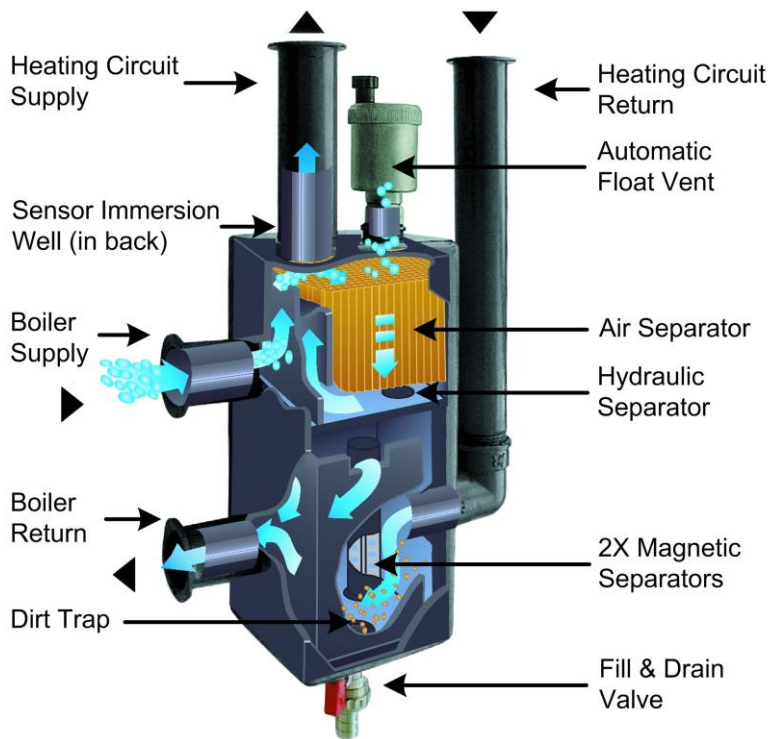
- Water coming from the boiler flows against a baffle plate, is guided through a honeycomb mesh and exits to the heating circuit.
- Decreased pressure due to multiple manipulations of the flow separates the air, which will be purged by the automatic vent.

## Dirt Separator

- Water coming from the heating circuit is slowed down by entering the large chamber and the dirt settles to the bottom.
- The dirt trap can be purged through the fill & drain valve.
- The (2) magnetic separators in the chamber trap rust particles.
- With the magnet rods removed from their immersion sleeves the rust will settle down and can be drained.

## Hydraulic Separator

- The upper and lower chambers are connected through openings, which serve as a low-loss header.
- The low-loss connection of the supply and return side decouples the boiler circuit and the heating circuit for primary / secondary heating systems.



The Boiler Guard K fits with all Meibes boiler products and accessories for a quick and clean installation.

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