## Honeywell offers intelligent drinking water solutions for residential properties, buildings and industrial plants

**Fine filters, filter combinations and strainers**
Drinking water quality and the protection of pipes and domestic installations are ensured.

**Water treatment**
Reliable protection against limescale and corrosion.

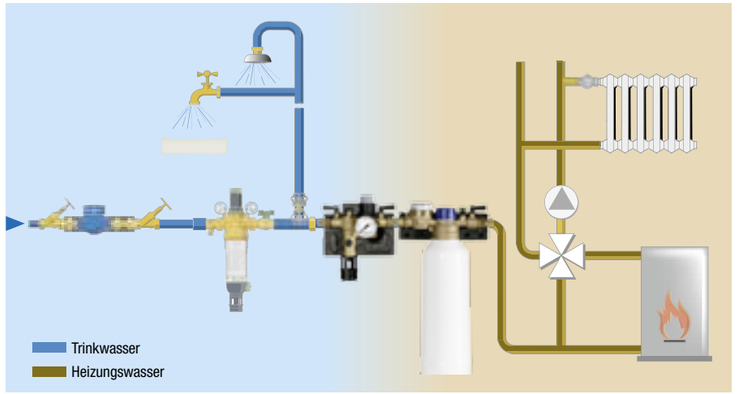
**Pressure reducing valves and pressure regulators**
Guaranteed regulated water pressure, economical and environmentally friendly.

**Safety devices**
Simple installation and easy maintenance. Reliable drinking water protection in accordance with EN 1717.

**Safety and regulation devices**
Precise regulation with fast response to temperature and pressure fluctuations.

**Alwa red bronze drinking water taps**
Freeflow and throttle valves with maximum resistance and reliable functions, even in long-term use.

**Industrial fittings**
Excellent regulation behaviour even under extreme conditions.




### Special features:

- Integrated water meter allows you to determine easily when to replace the cartridge.
- Simple cartridge replacement without need for tools
- Continuous connection to the drinking water supply pipe in accordance with DIN EN 1717
- Optimum protection for the drinking water mains supply
- Effective limescale protection for the heating circuit
- Press reducing valve with inlet pressure compensation – fluctuating inlet pressure has no influence on outlet pressure

### Technical data:

- Medium: water
- Max. inlet pressure 10.0 bar
- Outlet pressure adjustable from 1.5 - 4.0 bar, factory-set to 1.5 bar
- Protection up to liquid category 4 (toxic, highly toxic, carcinogenic, BA backflow preventer BA for radioactive substances)
- Horizontal mounting position with discharge connector facing downwards
- Operating temperature max. 30°C
- kvs value 0.45 $m^3/h$
- Discharge connector HT 50
- Connection size ½" external thread

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# NK300soft refilling combination

Honeywell

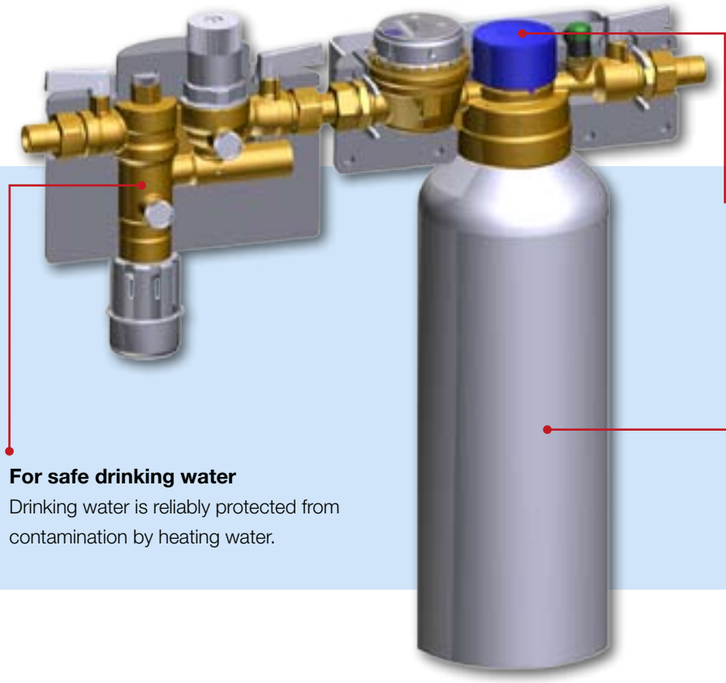
## Your heating system in safe hands – refilling combination with softening unit

# New standards for the operation of heating systems

**Standard DIN EN 1717**

**The standard DIN EN 1717, introduced in August 2001, requires that a backflow preventer be fitted between drinking and heating water systems.**

Don't put up with limescale deposits in your heating system – VDI 2035, Part 1, recommends the softening of filling and top-up water.



**For safe drinking water**
Drinking water is reliably protected from contamination by heating water.

**Simple handling**
Setting the desired residual hardness is an uncomplicated process.

Integrated water meter allows you to determine easily when to replace the cartridge.

**Reliable against limescale**
Softened water keeps your heating system running safely, reliably and economically.

**Compliance with rules and standards**

DIN EN 1717 demands a permanent connection between the heating system and the drinking water supply pipe. In view of this, the filling and refilling of heating systems in combination with an EA non-return check valve will no longer be permitted in future. Instead, the backflow of heating water must be prevented by a backflow preventer.

Another new development means that the heat transfer surfaces required for the heating system are becoming increasingly compact. Limescale that is deposited on these surfaces lowers efficiency – resulting in increased energy consumption. Furthermore, limescale deposits lead to malfunctions and shorten the service life of the heating system.

VDI 2035, Part 1, therefore recommends the softening of filling and top-up water in heating systems.

**Be on the safe side with just one unit**

The requirements of DIN EN1717 and VDI 2035 can be satisfied with just one unit: the NK300soft incorporates both a refilling combination and a softening unit. The refilling combination consists of a type BA backflow preventer and a pressure reducing valve. It ensures that the heating system has the correct pressure and reliably prevents contaminated heating water from flowing back into the drinking water supply.

As the water flows through the softening cartridge, which is filled with sodium salt, the water hardening minerals calcium and magnesium are replaced by sodium in an ion exchange process. The result is soft, limescale-free water, with no effect on water quality. There are no more limescale deposits in the heating system, particularly on the system's heat transfer surfaces.

**The NK300soft refilling combination with softening unit from Honeywell is the ideal solution to protect your heating system**

**For more comfort**

The permanent connection between the drinking water plumbing and the heating system means that refilling with a hose is now a thing of the past. And time-consuming bleeding of the system is also cut to a minimum, for no additional air enters the system on refilling.

**For more safety**

The integrated type BA backflow preventer separates heating water up to category 4 from the drinking water, thereby ensuring the quality of your drinking water.

**Put a stop to limescale in your heating system**

The high temperatures involved in providing heating water lead to the formation of limescale deposits on the heat transfer surfaces, particularly in areas where the water is harder. Softening the water effectively puts a stop to deposits and incrustations.

**Improved efficiency leads to lower energy costs**

By preventing these limescale deposits, the efficiency of the heating system – especially on the heat transfer surface – is increased. This results in noticeable lower energy costs. And what a lot of people don't know: a layer of limescale of just 1 mm increases energy costs by around 10%!

**Less expenditure for maintenance and repairs**

As the limescale deposits are reduced, the most important components such as pumps, boiler, valves and regulators are less prone to malfunction. This reduces the time and expense of maintenance and repairs, leading to lower operating costs overall. What's more, you can expect a longer service life from a heating system that is filled with treated water.