



Hygienic Ice

EU legislation considers water and ice being food and ice producers are responsible for complying with the applicable hygiene regulations.

Due to the "Hygienic Design" of the ice machines, along with practical advice, ZIEGRA provides the means to meet the provisions of ice hygiene.

Germs, lime scale and minerals can nevertheless get into the machine and may increase growth of bacteria in stagnant water, in water supply pipes, or in the machine when ice production is switched off.



The Benefits of ZIEGRA Ice Machines

- **Closed water circuit**
The small, sealed water chamber, short pipes and the closed ice cylinders prevent most bacterial contamination.
- **Higher operational safety**
with lower maintenance and service costs due to clean water pipes, evaporator surface and valves.
- Besides the **high quality of our machines and the ice**, we specially care for hygiene at ZIEGRA



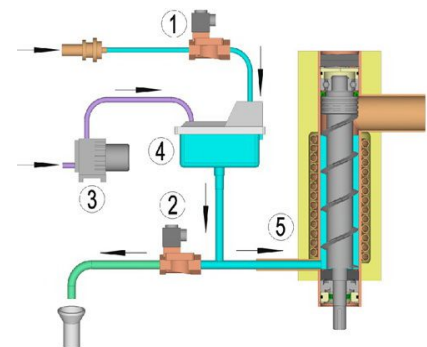
Hygiene Options

For your water:

- **Cartridge-Filter** also available with anti-lime water treatment (which reduces lime scale and minerals in the machine being a breeding ground for germs), as well as carbon filters.
- **UV- Disinfection** Germs which get into the machine through the water pipes are eliminated before ice production starts.

For your Ice Machine:

- **Automatic Water Drain**
Prevents formation of "wet germs" in the water chamber, in the ice cylinder or the pipes when the machine is at standstill
- **Automatic Flushing**
A supplement to Automatic Water Drain, flushes the water circuit several times
- **Automatic Disinfection**
A supplement to Automatic Flushing. During flushing process a dosing pump drips cleaning agent or disinfectant into the water chamber
- **Special Solutions**
For ultimate hygiene requirements being the aim of the food industry to some extent already now



Automatic Water Drain:

The water supply (1) closes and the water drain (2) opens. The water system „falls dry“

Automatic flushing:

At preset intervals the interaction of valves (1) + (2) cleans the system by forced flushing with clear water

Automatic disinfection:

Dosing pump (3) drips a disinfectant fluid into the water chamber (4). The residence time is preset in accordance to agent. Operation is followed by repeated flushing with clear water