

Cleaning Technology · Municipal Technology

**Hako**

Clean ahead



**Hako-AquaForce<sup>®</sup>**  
*Chemical-free work  
for maintenance cleaning*

For scrubber-driers

## Environmentally friendly and economic

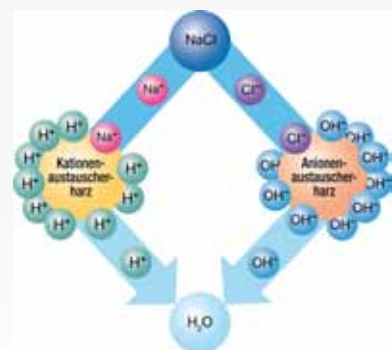


### Cleaning using demineralized water

The use of cleaning chemicals in maintenance cleaning by machine may give rise to high costs and can be a considerable burden on our environment. Cleaning with demineralised water has already been carried out successfully in other areas of cleaning (glass cleaning, railway cleaning, ship cleaning, car washing etc) for many years. Hako has now introduced this technology to floor cleaning machines for the first time. Extensive tests have shown that, as far as floor cleaning with machines is concerned, excellent results can be achieved in maintenance cleaning by the use of demineralised water.

### Your benefits

Demineralised water is particularly soft, and as a result of this can wash around the dirt particles on the floor, making them dissolve better. The water dries up completely without leaving any residue, stripes or limescale edges behind. This cleaning effect can be increased further by using special scrubbing tools. As a result, the surface is prevented from becoming dirty again for longer. The dirt particles are not given the opportunity of attaching themselves to the residues from tensides, soaps, detergents or limescale. If the dirt is stubborn, the remedy is at hand in the form of spot spray cleaning. Additional cleaning agents are also available to use if necessary.



*Innovation pays off*

## ***Simple, efficient and uncomplicated***

Hako-AquaForce® achieves excellent results through the mechanical aspect of cleaning floors, without the need for expensive cleaning agents.



### **What happens?**

When demineralisation is carried out, all minerals present in normal tap water (such as salt and ions) are removed. The cartridge with the ion exchange resins is filled with tap water. When the tap water washes around the resin, all unwanted substances are filtered out of the water. If these resins are saturated, they may be regenerated in an environment-friendly process. The size of the cartridge can be made to suit the requirements of the customer. For example, an ion exchange resin unit of 45kg has a flow amount of approximately 6200 litres at 10degrees GSG. The stationary system is simple and durable. It consists of a unit for ion exchange within the cartridge. The unit is placed at the filling station on the water connection. When filling the machine via the water hose, the tap water is processed in the ion exchanger online.

The filling time does not increase as a result. In conjunction with the automatic filling system, the operator can carry out other tasks whilst the machine is being filled.

### **The logistics**

During the initial on-site installation, the hardness of the water and the daily quantities consumed are established. From these, values of the life of the pure water cartridge can be calculated, and a regular rota can be laid down for exchange.

## ***Hako-AquaForce® for all applications***

### **Hako-AquaForce® pays off**

As there is no need to consider chemical purchase costs, storage logistics or transport of chemicals, huge savings can be made. Further important parameters are:

- Tank volume of the cleaning machine
- Degree of hardness of the water
- Price of the cleaning chemical used
- Dosage
- Cleaning interval
- Amount of times the cleaning machine has to be filled each time it is used

### **The choice is yours:**

- **Hako-AquaForce® Universal**  
Soft brushes made of synthetic material mixture K901; suitable for all easy-care floor surfaces – robust, lowmaintenance, long brush life.
- **Hako-AquaForce® High Performance**  
Micro-fibre pad grey/white – particularly for micro-porous floors – ensures an extremely high cleaning performance.
- **Hako-AquaForce® High Gloss**  
Diamond pads – this system is particularly suitable for terrazzo, marble, granite and everywhere, where a shine is desired without chemicals. Cleaning and shine in one operation.



### **Hako: environmental-friendly right from the start**

It is our legacy to leave behind a clean planet. That is why resources-, environmental- and climate protection characterize each and every process at Hako which has been certified by independent institutions. Learn more about our on-going commitment at [www.hako.com](http://www.hako.com)

### **Close to you wherever you are**

Our efficient close-knit sales & service network guarantees close proximity and rapid help.

### **Cleanliness combined with safety**

Our machines meet the highest standards. Reliable quality "Made by Hako".

### **Buying, leasing, renting**

We offer you a number of individual and attractive financing & procurement options.

### **We are available 24/7**

Hako's spare part express- and on-call service guarantees best possible availability.



Partner of the Engineering Industry Sustainability Initiative



DIN EN ISO 9001:2008  
DIN EN ISO 14001:2009

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