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# Filtraglass

## CUTTING-EDGE TECHNOLOGY FOR INCREASED PRODUCTIVITY AND LONGER MACHINE LIFE

**W**ith over 15 years of experience in the sector, Filtraglass designs and manufactures water filtration systems that are ideal for

installation and use in the glass industry. In those more than 15 years, the company has become a benchmark in the market by opening up its

borders and exporting its systems to various countries on several continents. An innovative and dynamic team, cutting-edge technology and personalised cus-

tommer service have enabled Filtraglass to build solid foundations on which to grow and develop while making machines that meet the increasing needs of clients.



Water purification is an essential part of the machinery used on today's glassworks. In this article, Filtraglass gives us an idea of how its plants can provide a series of important benefits for glassmakers that not only involve productivity and machinery, but also savings on consumption of water and coolant.



The use of filtered water in glass treatment processes helps produce a cleaner end product: a transparent glass free from glass dust residue.



### WHAT CAN YOU EXPECT AFTER YOU INSTALL A WATER RECYCLING SYSTEM?

#### Water consumption savings

The main goal of a water recycling system is to reduce water consumption by reusing the same water more than once. The system collects the water containing solid glass particles used in manufacturing processes and filters it before returning it to the closed supply circuit.

In general, a recycling system can reduce water consumption from the grid by up to 85 per cent, as for Delasan Vidres, Barcelona, a flat and curved glass manufacturer with a facility comprising four horizontal CNC machines and two next-generation CNC drills. However, this figure may be higher or lower based on the specifics of the facility, the number of machines, possible leaks from the closed circuit or water loss through evaporation.

#### Longer useful life for machines

After installing a water recycling system, glass treatment machine maintenance will be reduced due to the use of clean water of a com-

parable quality to the water coming from the grid and containing no glass dust that could damage them. Besides reducing maintenance requirements, this will also avoid wear and tear on the machines and their parts, thereby extending their useful life.

#### Increased productivity

Productivity is one of the most important aspects of any company in any sec-

tor. This can be affected by various factors, including production line stoppages for maintenance purposes. Glass treatments plants that install water filtration systems reduce their maintenance load and therefore their production line stoppages. The time once spent on replacing water in the tanks and removing residue can now be used to continue production.

#### Reduced environmental pollution

Water consumption is one of the factors on which particular focus has been placed in recent years to make a positive contribution to environmental conservation. At present, being





a leak or due to the ordinary process of evaporation.

**Improved end products**

The use of high-quality water not only affects the amount of machine maintenance required or the length of their useful life but also affects the end result for the treated glass. The use of filtered water in glass treatment processes helps produce a cleaner end product: a transparent glass free from glass dust residue.



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environmentally-friendly can be a distinctive characteristic for a company vis-a-vis its competition. By installing a water filtration system, we can help avoid harming the environment in two separate ways: firstly, reducing water consumption by recycling and always using the same water; and, secondly, avoiding the deposit of glass dust into the environment because the system converts this glass dust into solid, dry, extractable and recyclable waste.

**Reduced coolant consumption**

The consumption of liquid coolant is closely tied to

water consumption. Some companies in the glass treatment industry use this product to improve cutting tasks and avoid overheating the diamond tools. In an installation with no water recycling system, the coolant must be replaced more often because the useful life of the water used is shorter.

The main difference in an installation with a filtration

system in terms of using this product is how less frequently the water needs to be replaced. This means that coolant consumption is reduced because it only needs to be replaced when there is



# eco<sup>3</sup>box

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