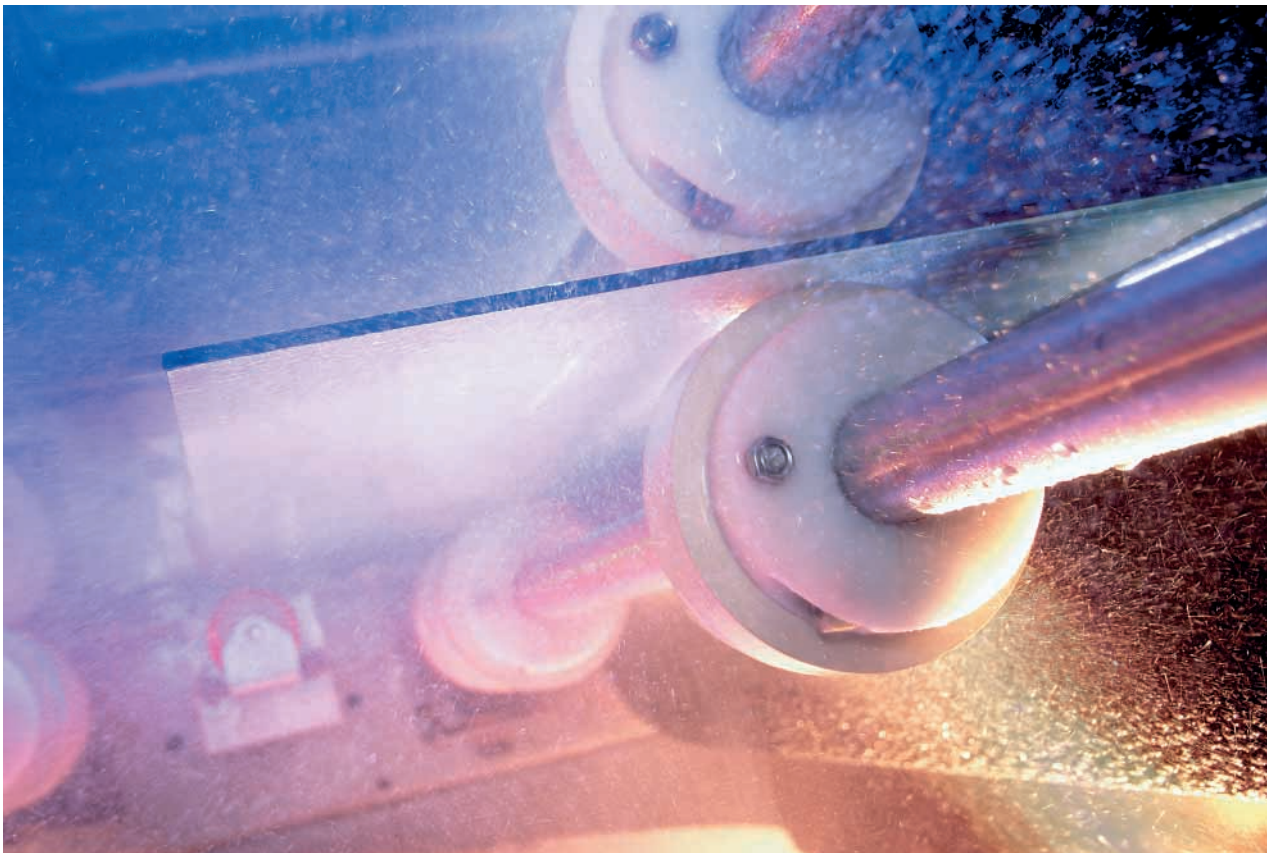


## Glass plate washing machines Purified water circulation plants

Excellent and environment-friendly cleaning and drying of glass plates

Common product characteristics of glass plate washing machines:

- ◆ Continuous cleaning and drying of different glass thickness
- ◆ Chainless brush- and transport drives outside of the machine
- ◆ Alternating brush rotation directions for optimum cleaning results
- ◆ Environment-friendly, energy-saving water-circuit system by separated washing- and rinsing-zone
- ◆ Step less adjustment of transport speed
- ◆ Maintenance-free, water protected bearings of the brushes
- ◆ Machine housing completely made of stainless steel, drying zone with sound protection



cleaner GW-SU

## Glass plate washing machine, Type GW-SU

- ◆ Four separate brush-pair drives
- ◆ Synchronous drive of vertical transport shafts for slip- and distortion-free glass plate transport
- ◆ Automatic opening and closing of parallel guided brush- and transport shafts
- ◆ Constant brush contact depth if processing different glass thickness
- ◆ Symmetric design of brush shafts, bilateral suitable
- ◆ Air knife design blower-nozzles for optimum glass plate drying

### Options

- ◆ Brush-lifting equipment for coated glass plates
- ◆ Electronic frequency control of brush drives for especially sensitive coatings
- ◆ Reversible transport drive for glass plates
- ◆ Additional equipment for glass thickness up to 30 mm (1.181") resp. 45 mm (1.771")
- ◆ Automatic coating recognition



#### Technical data

Working heights	1.60 m / 2.30 m / 2.70 m / 3.20 m (5.249 / 7.545 / 8.858 / 10.498 feet)
Processable dimensions	100 x 350 mm (3.937" x 13.779") up to max. 3250 mm working height (10.662 feet)
Glass thickness	3 – 15 mm (0.118" – 0.590") optional up to 30 mm (1.181") resp. 45 mm (1.771")

cleaner GW-D

## Glass plate washing machine, Type GW-D

- ◆ Three separate brush-pair drives
- ◆ Synchronous drive of vertical transport shafts for slip- and distortion-free glass plate transport
- ◆ Symmetric design of brush shafts, bilateral suitable
- ◆ Water-tank with heater integrated in machine housing
- ◆ Air knife design blower-nozzles for optimum glass plate drying

### Options

- ◆ Electronic frequency control of brush drives for especially sensitive coatings
- ◆ Inspection windows in front doors
- ◆ Reversible transport drive for glass plates
- ◆ Automatic coating recognition



#### Technical data

Working heights	1.60 m / 2.30 m / 2.70 m (5.249 / 7.545 / 8.858 feet)
Processable dimensions	100 x 300 mm (3.937" x 11.811") up to max. 2700 mm working height (8.858 feet)
Glass thickness	3 – 15 mm (0.118"-0.590")

# disc filter system

## Purified water circulation plant, disc filter system

- ◆ Environment-friendly, energy-saving circulating filter system
- ◆ Automatic back-rinsing of filter units due to permanent control of the filtration process
- ◆ Extremely low water consumption, only approx. 14 litres per filter rinse
- ◆ Short rinsing time, approx. 20 seconds
- ◆ Excellent water quality by filtering out tiniest particles
- ◆ Heated wash and rinsing circuit for optimum cleaning
- ◆ Effective filter back-rinse using water/air mixture
- ◆ Free programmable back-rinse parameter
- ◆ Very good filtration results with combination of surface and depth filtration
- ◆ Activated carbon filter for organic constituents
- ◆ Integrated, digital conductance meter
- ◆ Integrated ion exchanger



# gravel filter system

## Purified water circulation plants, disc filter system

- ◆ Environment-friendly, energy-saving circulating filter systems
- ◆ Essential reduction of water consumption due to recycling of the used water and return flow to the washing machine
- ◆ Procedure without chemicals for environment-friendly process
- ◆ Back washable gravel filters for mechanical filtering and coarse particles
- ◆ Candle filters for fine filtering
- ◆ Back washable carbon filter for organic particles
- ◆ Optical filter monitoring integrated in the circuit
- ◆ Digital conductivity meter, temperature-compensated (for Type GW-SU)
- ◆ Automatic control of the functions
- ◆ Plants with 2 or 3 water circuits, depending on application and type of the washing machine

### Options

- ◆ Back washable ph-stabilizer controlling the acid content to protect the coat of the glass
- ◆ Ion exchanger for conductance improvement



## Water demineralizing plant

- ◆ Plant for procuring of pure water, for the solid and careful cleaning of glass plates without remains of minerals
- ◆ Environment-friendly reverse osmosis procedure without chemicals for demineralization and disinfection of city- and drinking water
- ◆ Concentrate can be drained-off without retreatment
- ◆ High pure water yield by special diaphragm module and recovery system, desalting rate 97–99,5 %

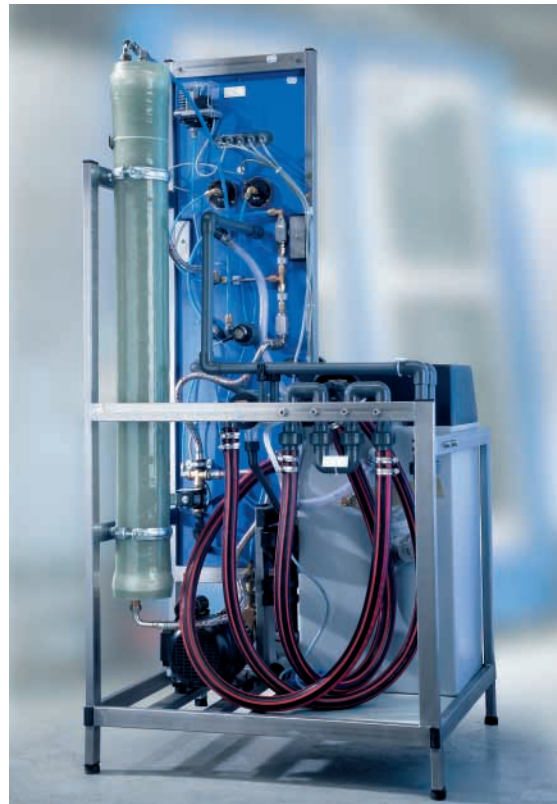


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- ◆ High efficient double water softening device
- ◆ Automatic control of the functions
- ◆ Electronic process control
- ◆ Low expenditure of installation
- ◆ Demineralization plant is laid out for the particular location according to the required output and water analysis

### Options

- ◆ Additional reverse osmosis module for increase of pure water quality
- ◆ Iron extraction filter / Manganese extraction filter



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