



Deionized Water Recycling Unit DWR1722

Ultracompact DI water recycling unit with extraordinary energy and water conservation

Multi-function ultra-compact DI water recycling unit

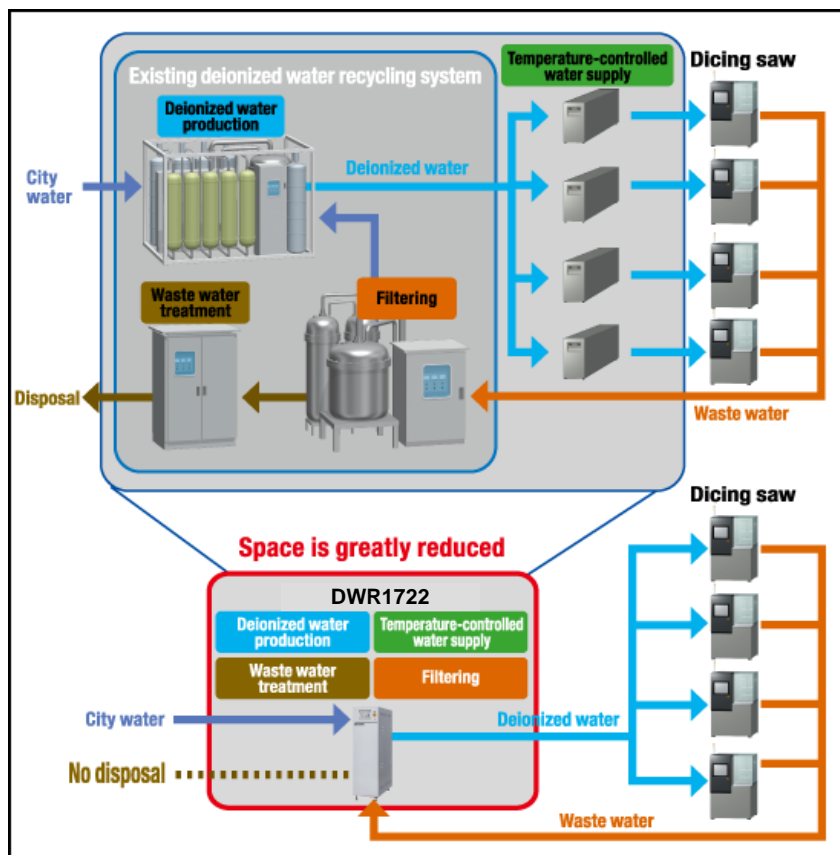
The DWR1722 is a DI water recycling unit for dicing saws with functions for DI water production, water temperature adjustment, filtration, and removal of suspended solids such as cutting particles. Thanks to the introduction of the compact and highly efficient CC Filter, an original DISCO invention, a small equipment footprint has been made possible.

Providing environmentally friendly performance

The high recycle rate (99.5% with zero wastewater) exceeds what is possible with conventional recycling units and greatly reduces city water consumption. Since this unit can be installed adjacent to dicing saws, piping can be shortened and water temperature fluctuations as the water runs through the piping can be minimized. Furthermore, together with the high recycling rate and water consumption, the power needed for water temperature control is also minimized.

Enabling efficient introduction into your facility

Different from the conventional large scale DI water recycling facilities, this unit can be introduced efficiently in accordance with the number of dicing saws installed. Furthermore, since it can be installed adjacent to the dicing saws, piping construction for DI water supply and recovery of wastewater becomes unnecessary. For the DWR1722, the RO unit and other functions have been reclassified as options, for a simplified standard specification. Our customers can now select only the functions they need, so we can provide the most suitable specification for our customers.



Notes:

- A separate water supply at a controlled temperature is necessary in order to cool the chiller unit.
- The DWR1722 can handle two dual spindle dicing saws or four single spindle dicing saws.
- When producing DI water from city water, an RO film unit (option) is required.

Easy maintenance

The CC Filter and ion exchange resin can be replaced with a one-touch coupler connection so that the time needed for maintenance is greatly reduced.

CC Filter: Disposable filter module with high performance

The DISCO original CC Filter provides both high filtration performance and long life time. Suspended solids filtered out by the CC Filter can be disposed of easily together with the filter.



CC Filter

Easy operation

Operation of the DWR1722 can be linked with a dicing saw (optional). This reduces the load on the operator and the possibility of human error.

Specifications

| Spec | | Unit | DWR1722 |
|-----------------------|--|--------------|---|
| Cutting water | Specific resistance value after processing | MΩ·cm | Greater than 12 |
| | Pumping capacity | L/min | 25 |
| | Supply water | - | City water, or |
| | TOC control | - | Internal TOC reduction unit uses UV for oxidization |
| | Particle count after treatment (particle larger than 0.2 μm) | Particles/mL | Less than 100 |
| | Temperature setting range | Deg C | 20 - 25 |
| Spindle cooling water | Pumping capacity | L/min | 10 |
| | Cooling capacity | W | 900 |
| | Temperature setting range | Deg C | 20 - 25 |
| Utilities | Machine dimensions (Wx DxH) | mm | 450×1600×1655 |
| | Machine weight | kg | 460 |

Environmental conditions

- Use clean, oil-free air at a dew point of -15 °C or less. (Use a residual oil: 0.1ppm. Filtration rating: 0.01 μm/99.5 % or more).
 - Keep room temperature fluctuations within ±1 °C of the set value. (Set value should be between 20 - 25 °C).
 - Keep cutting water and cooling water at the same (within ±1 °C fluctuations) temperature as the room.
 - Use water that has a specific electric conductivity greater than 1μS for cutting.
 - The machines should be used in an environment, free from external vibration. Do not install machine near a ventilation opening, heat generation equipment or oil mist generating parts.
 - This machine uses water.
In case of water leakage, please install the machine on the floor with sufficient waterproofing and drainage treatments.
- * All the pressures are described using gauge pressures.
 * The above specifications may change due to technical modifications. Please confirm when placing your order.
 * For further information please contact your local sales representatives