

Water Temperature Control Unit DTU1550

Next generation water temperature control unit which has improved cooling efficiency and water supply capacity

DTU1550 is a water supply unit for dicing saws and grinders that provide a stable supply of spindle cooling water or dicing water at a constant temperature and suitable pressure.

Stable High Precision Processing

Due to optimizations in the unit design, changes in temperature when changing the flow rate of dicing water can be kept under 1°C. Changes in dicing saws, grinder spindles, chuck tables, and workpiece areas around the process point due to changes in temperature can be minimized to help improve processing precision.

Guaranteed Water Supply Pressure

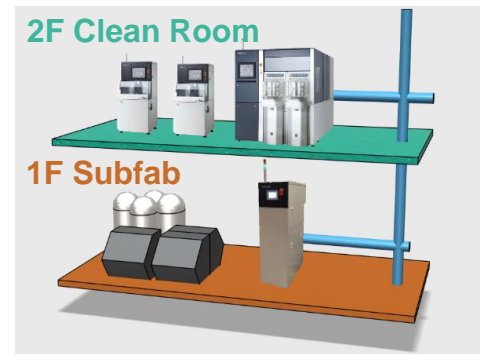
Even if the facility water supply pressure is low due to the infrastructure, the unit will increase the water pressure to the necessary levels for dicing saws and grinders.

Improved Cooling Efficiency

Realizes increased cooling/cutting water capacity and improved cooling efficiency. The processing stability is also improved. In addition, it supports grinders capable of next generation's application, which was not formerly supported by conventional water temperature control units.

Improved Operability through Excellent Water Supply Capacity

Realizes support for lower floors with an improved water supply flow quantity and pressure. Three-dimensional space operation, e.g., placing equipment (dicing saw, grinder) in a clean room on the second floor, and placing DTU1550 on the first floor, is possible.



Specifications			
Specification	Unit	Spindle coolant	Grinding water
Range required to	Deg C	20 - 25	20 - 27* ¹
Temperature accuracy	Deg C	Within 1	Within 1
Cooling efficiency	kW	3.0	6.2
Heating efficiency	kW	-	12.5
Flow rate	L/min	18	30
Circulation method	-	Circulation type	Flush type
Machine dimensions	mm	450 × 1,090 × 1,680	
Machine weight	kg	310 (During drying)	

*1: Entering water temperature of -6°C to +3°C (at 30 L/min)

Environmental conditions

- Keep room temperature fluctuations within $\pm 1^\circ\text{C}$ of the set value. (Set value should be between 20°C and 25°C.)
- The equipment should be used in an environment free from external vibration. Do not install equipment near a ventilation opening, heat generation equipment, or oil mist generating parts.
- This equipment uses water. To prevent damage in the event of water leakage, please install the equipment on the floor with sufficient waterproofing and drainage measures.
- * 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.