

Water Temperature Control Unit DTU162

Higher Dicing quality with lower environmental impact

Support for dicing quality

The DTU162 keeps both spindle cooling water and cutting water at a constant temperature and suitable pressure. It thereby helps manage expansion, contraction, and other undesirable phenomena caused by water temperature fluctuation.

Reduced environmental impact

By circulating used cutting water and precipitation filtration of water-borne debris, the DTU162 significantly reduces water consumption and environmental impact. Further, the refrigerant used in DTU162 is a completely non-ozone-depleting hydrofluorocarbon (R-407C).



Small footprint

The efficient design of DTU162's interior makes a very small unit footprint possible.

Easy maintenance

- Use of long 20" filters allows for less frequent replacements.
- Interior layout designed for maximum the simplicity of regular maintenance.

Applications

Glass, ceramics, ferrite, and other electronic component materials.

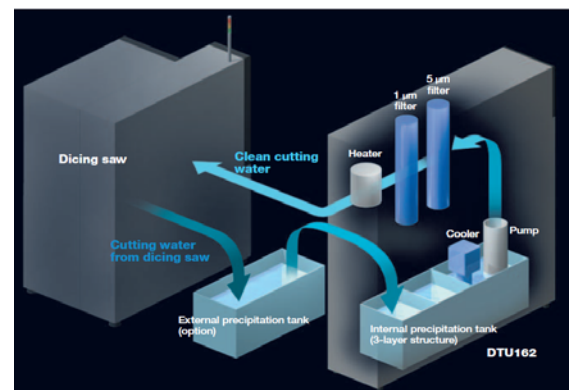


Diagram of cutting water flow

Specification			
Specification	Unit	Cooling water line	Cutting water line
Range required to guarantee accuracy	Deg C	20 ~ 25	20 ~ 27 and within 2°C of the spindle coolant setting
Temperature accuracy	Deg C	1	1
Cooling efficiency	kW	0.6	0.6
Heating efficiency	kW	0.6	2
Flow rate	L/min	6	10
Circulation method	-	Recirculation type	Recirculation type
Machine dimensions (WxDxH)	mm	430 x 900 x 1,500	
Machine weight	kg	Approx.240 when full	

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