



DISCO

Kiru · Kezuru · Migaku Technologies



Water Temperature Control Unit **DTU162**

**Higher dicing quality with
lower environmental impact**



Support for dicing quality

DTU162 keeps both spindle cutting 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 precipitating and filtering water-borne debris, DTU162 significantly reduces water consumption and environmental impact. Further, the refrigerant used is R-407C, a completely non-ozone-depleting gas.



Water Temperature Control Unit DTU162

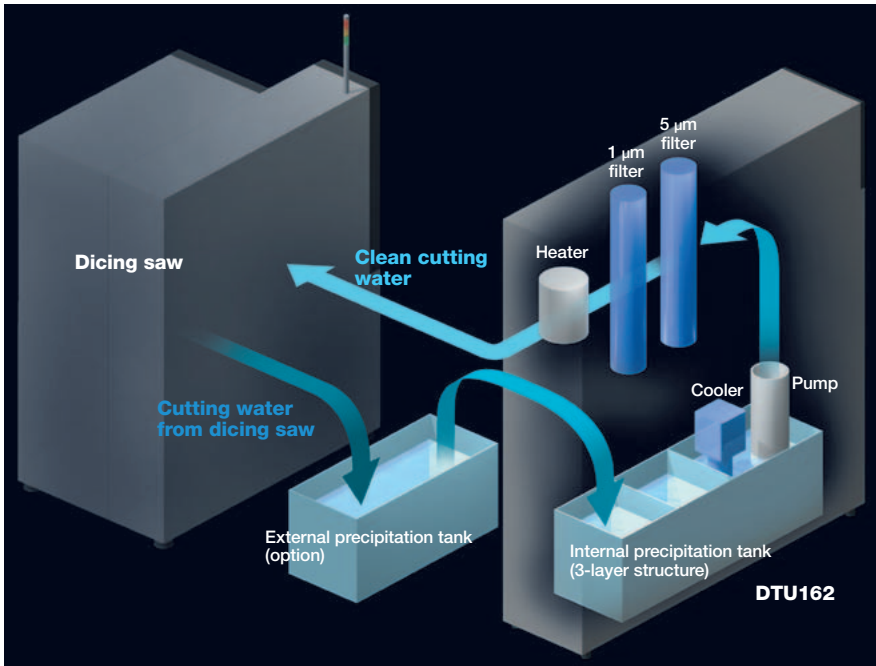


Diagram of cutting water flow

Small footprint

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

Easy maintenance

- Use of long 20" filters allows for less frequent exchanges.
- Interior layout designed for maximum ease of regular maintenance.

Applications

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

DTU162 Specification

Cutting water system	Cooling capacity	W	Approx. 600 (at 20 °C)
	Heating capacity	W	Approx. 2000
	Pumping capacity	L/min	10
	Tank volume	L	84
	Filter cartridge length	in	20 (508 mm)
	Filter mesh size 1	µm	5
Spindle coolant system	Filter mesh size 2	µm	1
	Cooling capacity	W	Approx. 600
	Heating capacity	W	Approx. 600
	Pumping capacity	L/min	6
	Tank volume	L	7
	Temperature setting range	Cutting water	°C
	Spindle coolant water	°C	15 - 30
Temperature fluctuation range*	Cutting water	Deg C	Within ±1.0
	Spindle coolant water	Deg C	Within ±1.0
	Utilities***	Power supply	V
Power consumption			
	When heater is at max. capacity	kW	5.4
	When temperature is stabilized	kW	2.2
	Max. power	kVA	9.3
Refrigerated cooling water			
	Feed water pressure	MPa	0.2 - 0.5
	Required flow rate	L	7 (when feed water temperature is 25 °C)**
	Machine dimensions (W x D x H)	mm	430 x 900 x 1,500
	Machine weight	kg	Approx. 240 (when dry) Approx. 360 (when running with full tank)

* When both cutting water and spindle coolant are 20 - 25 °C.

** The required flow rate will vary by temperature.

*** Data for water cooling specification. It is possible to also select an air-cooling specification.

Environmental conditions

- Keep room temperature fluctuations within the same as room temperature between 20 - 25 °C (fluctuations within ±1 °C).
- 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.

* Because it circulates cutting water, DTU162 may not be appropriate for applications in which purified water is used.

* All pressures specified above are gauge pressures.

* As the above specification may change due to technical modifications. Please confirm when placing your order.

* For further information, please contact your local sales representative.

