

GSP

Machine Model : **AX10W DTU**

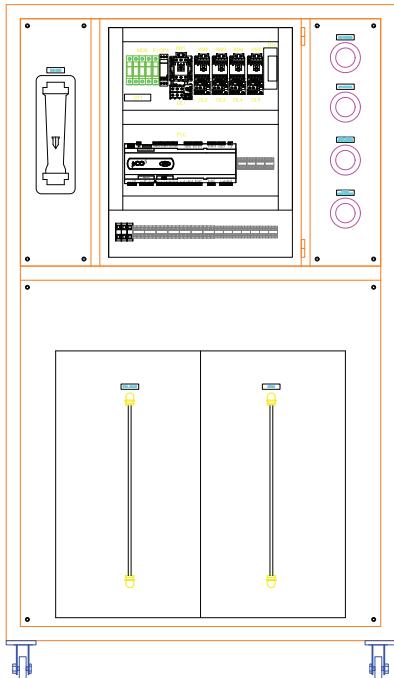
Machine System: **Chiller unit coolant**

High precision water temperature control for stabilizing equipment precision and product quality



The AX10W DTU are water supply units for dicing saws and grinders that provide a stable supply of spindle cooling water or dicing water at a constant temperature and a suitable pressure.

SPECIFICATION AX10W DTU	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	7.2	30.6
Heating efficiency	kW	-	3
Flow rate	L/min	30.25	63.76
Circulation method	-	Recirculation type	Drainage type
Machine dimensions (W x D x H)	mm	1100 x 1200 x 1910	
Machine weight	kg	Approx.725 when full	



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.

Guarantee water supply pressure

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

Chiller unit coolant	Supply flow rate/ Supply temperature	<p>0.15 to 0.5 Mpa</p> <p>The minimum requirement of the flow rate differs depending on the supply water temperature. Referring to the graph below, secure the flow rate greater than the minimum requirement.</p> <table border="1"> <thead> <tr> <th>Water temperature (C°)</th> <th>Flow rate (L/min)</th> </tr> </thead> <tbody> <tr> <td>15°C</td> <td>8.0 L/min or higher</td> </tr> <tr> <td>21°C</td> <td>11.2 L/min or higher</td> </tr> <tr> <td>27°C</td> <td>16.2 L/min or higher</td> </tr> <tr> <td>30°C</td> <td>18.6 L/min or higher</td> </tr> </tbody> </table>	Water temperature (C°)	Flow rate (L/min)	15°C	8.0 L/min or higher	21°C	11.2 L/min or higher	27°C	16.2 L/min or higher	30°C	18.6 L/min or higher
Water temperature (C°)	Flow rate (L/min)											
15°C	8.0 L/min or higher											
21°C	11.2 L/min or higher											
27°C	16.2 L/min or higher											
30°C	18.6 L/min or higher											

Chiller Unit Coolant