

Technical Newsletter

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Request for Periodical Replacement of Spindle Cooling Water and Chuck Table Motor Cooling Water

Outline

For the Water Temperature Control Unit and the Vacuum/Coolant Unit with Chiller, a periodic replacement of the cooling water is required. Please replace the cooling water of these units, referring to their instruction manuals.

Applicable model

DGP8761

Need for replacement

The DGP8761 has a circulating cooling system for the spindle cooling water and chuck table motor cooling water. If the cooling water is not replaced for an extended period of time, the following impurities may accumulate inside the water circuit, and may decrease the water flow.

- Local accumulation of impurities generated from the parts inside the chiller
- Adhesion of sludge caused by propagation of microbes contained in water
- Accumulation of metal oxide caused by elution of metal ions

Possible defects that may occur when cooling water is not replaced

Defects to be caused by the decreased spindle cooling water

- Stop of the equipment due to an alarm
- Spindle damage caused by a deformation of parts inside the spindle that are heated during process

Defects to be caused by the decreased chuck table motor cooling water

- Stop of the equipment due to an alarm
- Deterioration of processing accuracy (TTV) and variation of removal amounts

Replacement method

Replace the circulating cooling water every 14 days. The replacement method is described in the instruction manuals provided with the applicable products.

If the piping is contaminated, clogging may occur. Please contact DISCO if you need to check the condition of clogging.

Inquires

Please contact your DISCO sales representative or DISCO service office if you have any questions regarding this matter.

This request for periodic replacement applies for all Water Temperature Control Units and Vacuum/Coolant Units with Chiller used with other DISCO machines.