Technical Newsletter

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Do Not Stop Chiller While Machine Power Is ON (DFL7340, DFL7341, DFL7360, DFL7360FH, DFL7361)

Applicable model

DFL7340, DFL7341, DFL7360, DFL7360FH, DFL7361

Introduction

Regardless of whether the laser diode is ON or OFF, the applicable models above have energized sections which generate heat inside the SD engine while the machine power is turned ON. Therefore, even if the laser diode is turned OFF, it is necessary to continue cooling the SD engine by operating the chiller.

To prevent problems with the machine, we have provided guidance below in "Information to keep in mind" about handling the chiller while the machine power is turned ON and when stopping operation for an extended time.

Information to keep in mind

1. While the machine power is turned ON, do not shut off the supply of cooling water to the chiller
   If the supply of cooling water to the chiller is shut off, the chiller will stop. If the chiller remains stopped, there is a risk that SD engine failure or laser optical axis deviation will occur.

2. If an alarm occurs, take the required measures without leaving the cause unresolved
   If you leave the machine power ON without addressing the cause of the alarm, the chiller will remain stopped and there is a risk that SD engine failure or laser optical axis deviation will occur.
   If it is not possible to operate the chiller normally, turn the machine power OFF and contact a DISCO customer engineer.
   You can check the chiller operation status in [L.H.W.C. Flow Swch] on the I/O Check screen. See the maintenance manual with regard to the I/O Check screen.

3. If not using the machine such as when stopping operation for an extended time, turn the machine power OFF
   If the chiller is stopped while the machine power is turned ON, there is a risk that SD engine failure or laser optical axis deviation will occur.

Inquiries

Please contact your local DISCO sales representative or customer engineer if you have any questions regarding this matter.