LANCER WORLDWIDE
A HOSHIZAKI Company

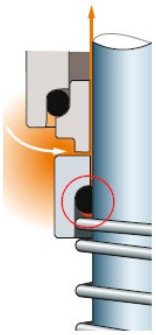
# GLYCOL PUMP START UP
# Instruction Sheet

**Introduction:** When Glycol Beer Systems have been in prolonged shut down it is essential to check the pumps and refrigeration prior to restarting:

**Reason:** Lancer glycol chillers utilise tungsten carbide face seals which have proven to be extremely reliable when pumping glycol / water solutions however hard face seals may be prone to becoming stuck together during periods when the pump is not operational

Prolonged periods of shutdown can allow for the evaporation of the liquid barrier between the rotating and stationary seal faces which may cause the faces to stick together. On start-up the stationary face can then rotate in the housing resulting in failure of the static seal face elastomers due to the rotational friction.

Contact point of tungsten carbide seal faces where sticking may occur



**Process:**

## Before Restarting the System

| | | |
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| ⚠ | **WARNING** | **Chiller must be isolated from electrical supply before commencing any service or maintenance work.** |

## 1. Check Pump

Before connecting the glycol tank to power, it is critical to check the pump for free rotation. If the seal faces are stuck together and free rotation cannot be achieved by rotating the pump shaft backwards and forwards by hand to break the bond between the rotating and stationary faces, it may be necessary to disassemble the pump to and remove the seal for cleaning and possible replacement.

For units fitted with Grundfos SPK type pumps, it is suggested to remove the top cover and rotate the cooling fan back and forth to ensure the pump is free to turn, once confirmed replace the top cover

## 2. Check Refrigeration

After the Pump and glycol checks are completed. Confirm with the venues refrigeration contractor the refrigeration unit is operational before restarting the chiller in accordance with the installation instructions in the owner's manual. Failure to have the refrigeration system operating can cause overheating of the glycol.