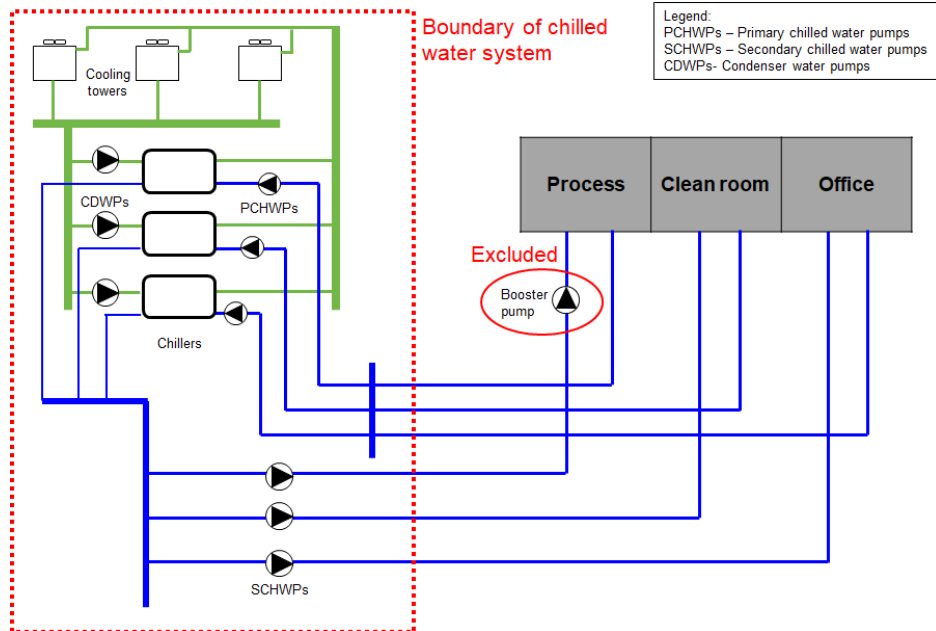


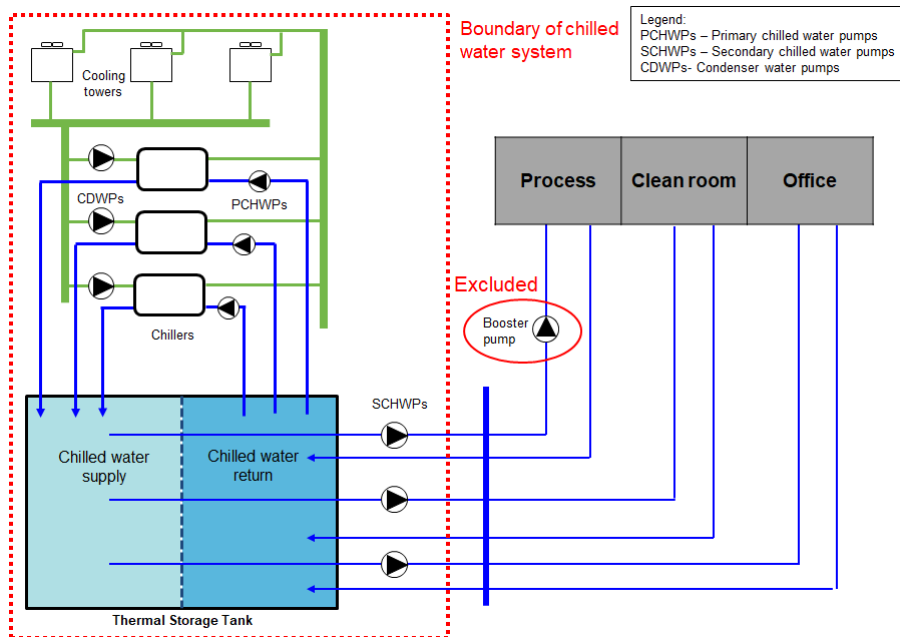
Definition of a chilled water system for different system configurations

a) Example 1 – Typical chilled water system



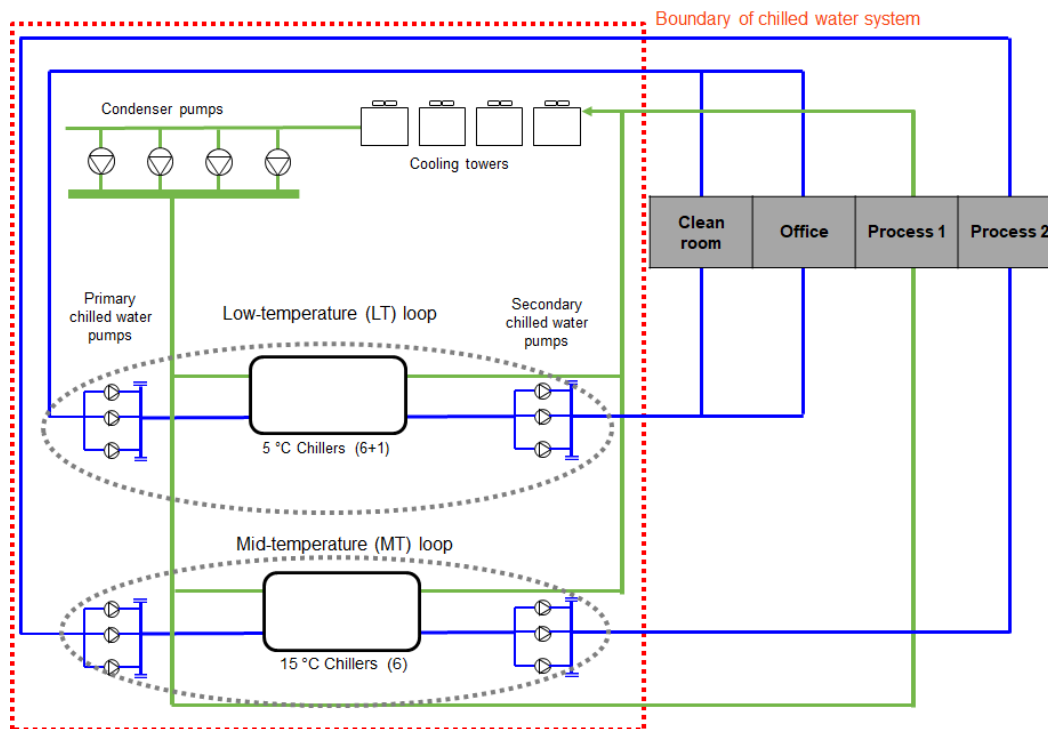
In the above example, a booster pump is installed downstream of the chilled water system to overcome additional pressure drop of a particular process. The booster pump will not be considered as a component of the chilled water system.

b) Example 2 – Chilled water system with a thermal storage tank



In the above example, the secondary chilled water pumps (SCHWPs) downstream of the thermal storage tank will be considered as part of the chilled water system.

c) Example 3 – Chilled water system with chillers producing chilled water at different temperatures



In the above example, there are 6 chillers (+ 1 standby) producing chilled water at 5°C i.e. low-temperature (LT) loop and 6 other chillers producing chilled water at 15°C i.e. mid-temperature (MT) loop. However, because the chillers are sharing common sets of cooling towers and condenser water pumps, they are considered as a single chilled water system.

The MEES for the above system will be the weighted-average of the MEES at 5°C and 15°C respectively. The equation below shows how the weighted-average MEES is determined:

$$\frac{Load_{LT}}{Load_{Total}} \times MEES \text{ at } 5^{\circ}\text{C} + \frac{Load_{MT}}{Load_{Total}} \times MEES \text{ at } 15^{\circ}\text{C}$$