

Issue 22 The information hub is designed to provide - mainly technical - information relating to Water Coolers and Boilers, to assist you with your work

How to Install & Maintain an Ice Bank Cooler

Ice Bank Coolers are built around a Water Bath which chills its water to near freezing. This is called an Ice Bank. It's water is not for drinking! The drinking water is carried by a separate coiled metal pipe which runs through the Ice Bank. As it passes through the near freezing Ice Bank Water Bath it is chilled down to a constant temperature of somewhere around 8 C.

When an Ice Bank Cooler is installed, it is **IMPERATIVE** that the Ice Bank Water Bath is filled with water, before the Coolers Chilling Unit is switched on. Failing to do so will damage the Ice Bank Cooler.

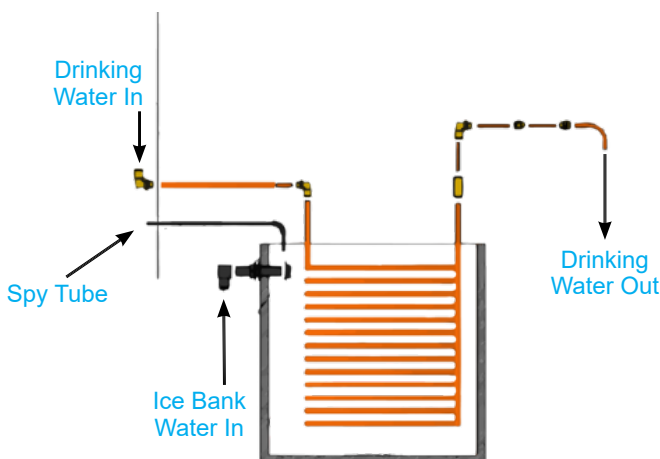
As a safety mechanism, Ice Bank Coolers are generally supplied with the chilling unit switched OFF. After the Ice Bank Water Bath has been filled, the Installer has to turn the Water Coolers Chilling Unit ON. Cosmetal Ice Bank Coolers have a Chiller setting ranging from 0 to 7. Zero equals NO chilling and 7 is maximum chilling. A setting of around 5 is appropriate in most circumstances.

Inside the Ice Bank Water Bath is an agitator paddle which move the water around to stop it from freezing. However, if the Chilling Unit is set too high there is a risk that the Ice Bank Water Bath and the Drinking Water could freeze up. This would prevent the Water Cooler from dispensing water.

The Installer has to make sure of two things:

1. Filling the Ice Bank Water Bath with water, with the chill setting set at 0, to the level indicated for the plastic spy tube. If the chill setting is at anything other than 0 and the Ice Bank Water Bath is empty of water, the unit will burn out.
2. After having filled the Ice Bank Water Bath, set the chilling to the required setting.

Please see the schematic drawing below which helps to explain the functioning of an Ice Bank.



Maintaining an Ice Bank Cooler requires two actions

1. **Sanitising the drinking water.** This can be done by one of two means:
 - a. As with all Direct Chill Coolers use an empty Filter Housing filled with Sanitising Solution and flush it into the drinking water trail. After 10 mins drain the water through the Tap and refresh it with clean Drinking Water.
 - b. The other method is to install a KLARAN UVC LED sanitising system between the Ice Bank and the Dispensing Tap. The KLARAN UVC LED destroys Bacteria and Viruses in the water as it passes through the UVC LED shield to the Tap.
2. **At the same time as sanitising the Ice Bank Cooler, it is advised to check the water level in the Ice Bank water bath, and if necessary, top it up.**

Ice Bank Coolers supply large volumes of chilled water at a constant low temperature. The bigger the Ice Bank, the larger the chilling capacity. AA First offer 15ltr/h, 45ltr/h, 65 and 120ltr/h Ice Bank options.

If the Ice Bank Cooler also dispenses carbonated water, there is an additional benefit. It is known that carbonation improves **SIGNIFICANTLY** the lower the water temperatures. To optimise performance the carbonation unit in Ice Bank Coolers has been placed directly inside the near freezing Ice Bank Water Bath.

Ice Bank Chilling setting (0-7)

The Spy Tube which shows the min and max Ice Bank Bath fill level

