

MIKE'S CHRONICLES

BENEATH THE CURLING SURFACE

Did you know that beneath the curling surface there lies approx. 25,000 feet of 1 inch pipe filled with a brine solution that is refrigerated by a Trane RTWD 80 HE chiller with 2 compressors using a refrigerant called R-513A in the same way your fridge cools or freezes using a heated freon solution. There are a total of 172 pipes that are 146 feet in length and placed every 4 inches across the floor. The pipes are then encased within 6 inches of concrete. We then chill the brine solution at -8 degrees Celsius, which then freezes the many layers of water we spread on top of it to make curling ice.

Four feet below this refrigeration system lies a sub floor heating system consisting of 64, 1 inch pipes filled with glycol that is heated to +5 degrees Celsius. This prevents the frost from getting too deep beneath the slab which could cause structural damage to the concrete floor.



Mike and the ice team