



Ice Machine Performance Data

In collaboration with the Houstonian Hotel and SPA Engineering team, a test was conducted to determine the performance of PermaFrost on a **Manitowoc series 450** cube Ice machine.

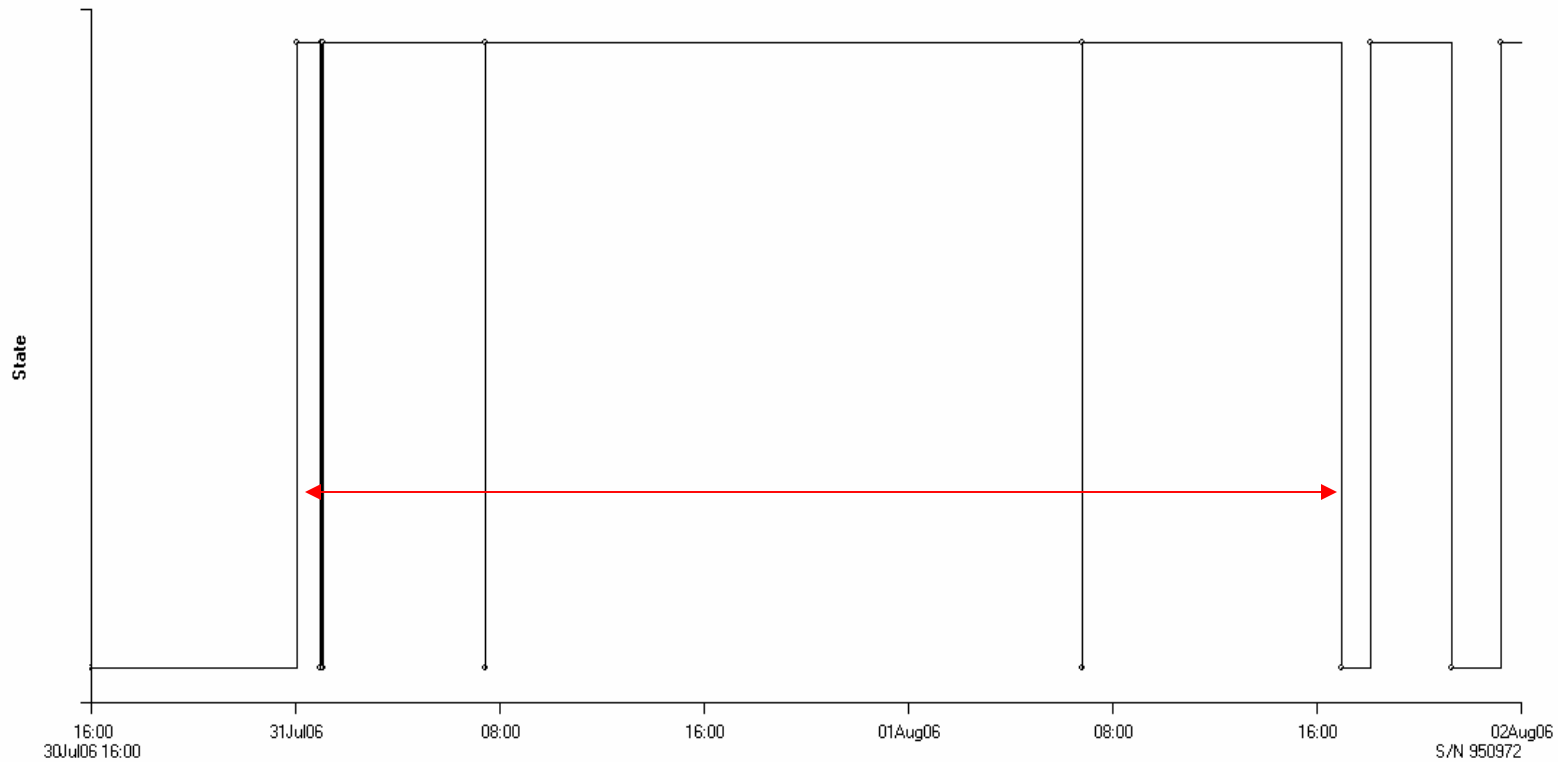
As we all know all refrigeration systems work in the same principal. Ice machines are very efficient systems and most are located in a controlled environment like this machine which was located indoors with no ambient temperature interference.

We utilized a simple logger from **Onset Corporation model HOBO Motor on/of logger**. This unit automatically senses the motor state **on** or **off** and logs every 5 seconds. Once the data is downloaded, it cannot be manipulated or changed in any manner whatsoever. The graphs in the following pages clearly show the result before and after PrmaFrost installation.

The final result = 26.8% more Ice Production

This test reiterates the results achieved by **NSF Corporation** the leading arm with the **FDA**. Most commercial refrigeration systems are tested by NSF for performance and manufacturer claims.

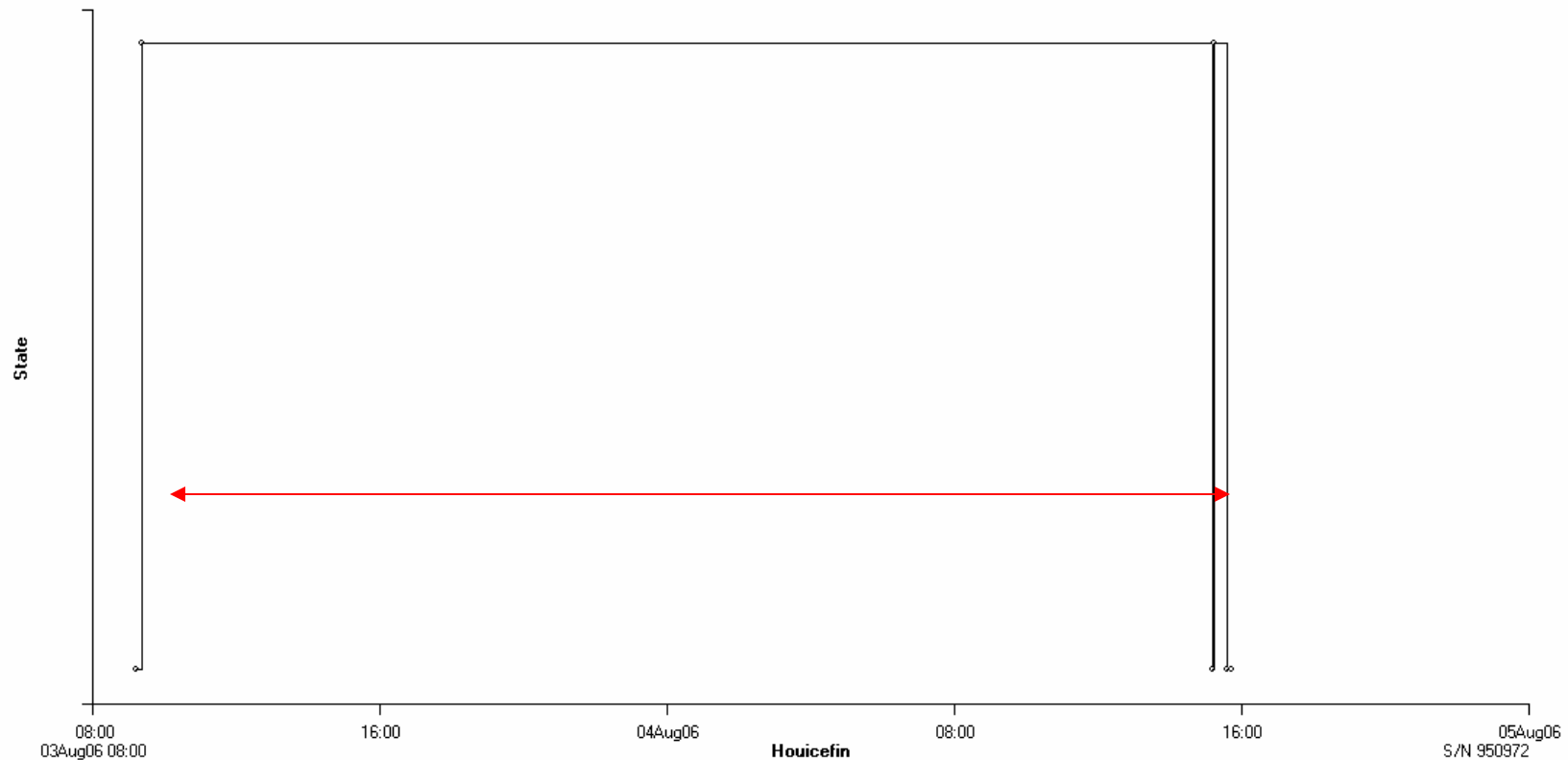
PermaFrost was tested by NSF under controlled laboratory conditions and the results are very similar to the results we achieved with this ice machine. A copy of the test is attached.



Houstonian Manitowoc Ice machine baseline data

In collaboration and supervision with the Houstonian engineering team, a performance test was conducted to demonstrate the performance of PermaFrost.

The bin on the ice machine was emptied and the logger hooked to the compressor. On July 31 the baseline started around Noon. The bin was shut closed and taped with signs saying: Do not use this ice. The machine ran all through August 1, 2006 and stopped (full bin) on around 5:00 AM. The unit ran non stop for 41 hours until the bin was full and triggered the on-off (full bin) switch.



Houstonian Manitowoc Ice Machine Performance data with PermaFrost:

On August 3, 2006, the ice machine was emptied following the baseline procedures and protocols. The logger was connected to the compressor and the unit was switched on. PermaFrost was added at this point.

As in the baseline data, the bin was shut closed, taped and labeled: Do not use this ice

The test started around 9:30 on August 3 and ran until August 4, 3:30 PM

The unit ran for 30 hours and the bin was full and triggered the on-off (full bin) switch.

The Ice machine now produces the same amount of ice 11 hours faster.

Every 2 days we now save 10 hours, this results in 165 hours a month = 6.8 days of Free Ice. Per month.