



Innovative in snowmaking and
snow distribution

The beginning

- We started the snow development back in the early 90`s with North Star, USA using flake ice as snow subject.
- We took part in delivery to several outdoors facilities in Japan.
- Kotobiki Park was our first task with 200 tonn flake ice per day.

Entering the Vacuum Ice era.

- 2005/2006 we became the main snow partner with IDE Technologies, Israel.
- After the deployment of two large stationary machines in Switzerland and Austria, we worked hand-in-hand with IDE to develop this new market segment, making snow with vacuum technique

The IDE VIM-400 Vacuum system



Development of slurry ice machine systems for snow making

- We soon realized that an alternative system for the "bulky" and relatively complex machinery available was needed.
- In co-operation with ICE-GEN, Canada and SNOW-TEK, Finland, we took on the challenge of delivering 3 systems for the Sotsji Olympics.

Sotsji

- With experience in snow crystal separation from water, we developed a vertical crystalizer tower enabling the ice crystals to multiply and to "dry" to snow.
- We built three tank modules each to accomodate one ICE-GEN slurry generator.

Separator



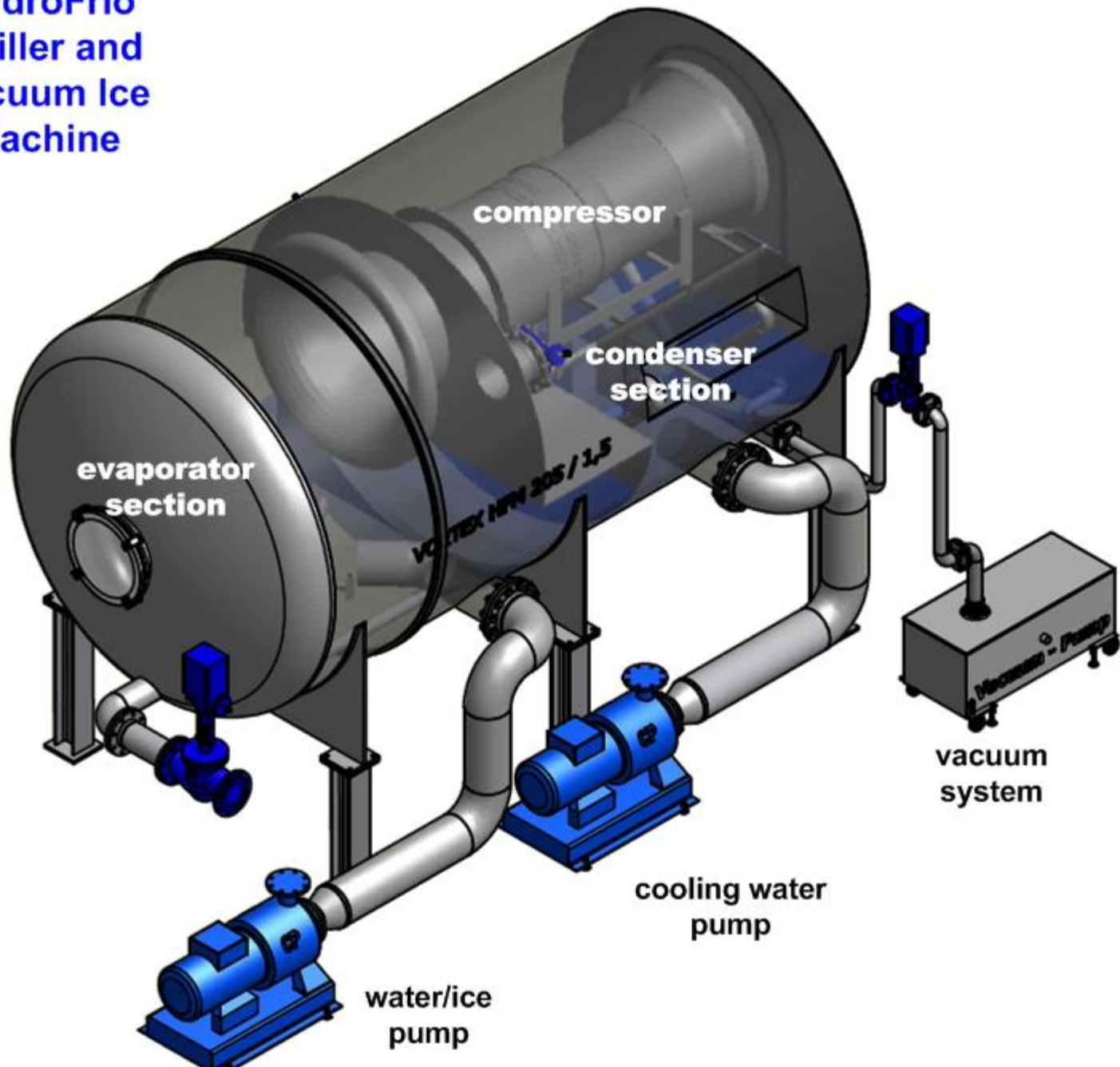
Next Generation

- With the "bulky" construction in mind, we started working with our own ideas in vacuum ice and traditional snowproduction based upon biner ice and snow distribution.
- The target was to manufacture a semi-mobile system for high quantity production with a slim distribution system based on water for transportation.

The 300m³ slurry system



HydroFrio Chiller and Vacuum Ice Machine



The mobile 300m³ Vacuum system



New ideas for snow distribution

- With a rapidly growing development in the understanding of "over-summering" and storage preservation of snow, we have developed a new way of replacing truck distribution by using water.
- This device will enable the two mentioned systems,- Slurry ice and Vacuum Ice to deliver almost dry snow over long distances

From Slurry and Vacuum systems

- The separator is simply connected to the production facility by means of two 40mm hoses. A slurry mixture (5-30%) is pumped from production to separation unit where the ice is transformed to REAL-SNOW.
- The transport water returns to the production to be reproduced to slurry ice.
- Distance can be 500 meter plus.

Snø separering



Snø separering



Relativt tørr snø 12m³/hour



Thank you