Your rink’s choice of cooling gases will determine its impact on our climate.

**WARNING!** Don’t be misled by chemical producer claims promoting synthetic coolants as environmentally sustainable.

**YOUR CHOICE**

<table>
<thead>
<tr>
<th>Natural Coolants</th>
<th>Synthetic Coolants</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO₂ or Ammonia</td>
<td>HFCs or HFC-HFO blends such as Opteon™</td>
</tr>
</tbody>
</table>

**COMPARING CLIMATE IMPACTS**

<table>
<thead>
<tr>
<th>COOLANT</th>
<th>GLOBAL WARMING POTENTIALS*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opteon™ XP40</td>
<td>3100 GWP</td>
</tr>
<tr>
<td>Opteon™ XP10</td>
<td>1700 GWP</td>
</tr>
<tr>
<td>CO₂ = 1 GWP</td>
<td>Too small to register</td>
</tr>
<tr>
<td>Ammonia = 0 GWP</td>
<td></td>
</tr>
</tbody>
</table>

**SO, WHAT IS AN HFC?** HFCs, or hydrofluorocarbons, primarily used as refrigerants in cooling systems, are ‘super pollutants’ - the most destructive human-made greenhouse gases in the world.

*Global Warming Potentials compared to CO₂ in 20-year GWP
THE BAD NEWS

If all of North America’s ice rinks install HFCs instead of ammonia, it will add 60 million metric tons of CO₂E in HFCs. The annual emissions of 15 coal fired power plants.

*Using Opteon™ XP10

THE GOOD NEWS

Natural coolants keep the ice cold, the fans warm, and the players and accountants happy!

Most Canadian rinks already use natural refrigerants.

90% Ammonia
7% Synthetics
3% CO₂

NHL players rank ammonia rinks #1 & 2 for ice quality!

1st The Bell Centre
2nd Rogers Place

Natural refrigerants are cost-effective & energy-efficient.

HFCs are being phased down.

Natural refrigerants are future-proof from regulations phasing down HFCs.

Read the North American Guide to Natural Refrigerants in Ice Arenas.

To find out more, read EIA’s report ON THIN ICE How the NHL is Cheating the Climate

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