

Hillphoenix CO₂ Systems

Better for the Rink. Better for the Earth.

Advansor Direct Transcritical CO₂ systems deliver superior performance — improved ice quality and pump power savings of up to 90% — compared to traditional systems. It's also environmentally friendly — CO₂ is an entirely nontoxic, environmentally safe refrigerant with excellent heat-transfer capabilities. Plus, it's a fraction of the price of traditional refrigerants.

- Hillphoenix® has over 10 years experience developing Advansor Direct Transcritical CO₂ systems.
- Advansor provides a much higher coefficient of performance (COP) than that of ammonia-calcium chloride systems.
- Easily accessible heat recovery can be a heating source for the entire facility—indoor areas, locker rooms, utility water, and other areas.

CO₂ is today's best solution. This is a future proof solution – meaning this choice will last well into the future.

- CO₂ is an entirely nontoxic, environmentally friendly refrigerant with excellent heat-transfer capabilities that meets every international refrigerant requirement for today and tomorrow.
- Modern technology Advansor CO₂ transcritical cooling systems decrease pump energy (power) requirements up to 90% compared to traditional installations.
- Virtually vibration-free installations—compressors are fitted with vibration dampers on installation plates welded to solid, rigid base frames.
- Compact design and construction.
- More efficient direct cooling system design and comprehensive monitoring.
- The overall efficiency of a facility's mechanical systems improves drastically with an Advansor system.
- Future proof solution!
- Hillphoenix has over 10 years experience developing Advansor Direct Transcritical CO₂ systems.



“We’re anticipating energy savings of 25 percent to 40 percent when all the results are in.”

– John Rodda, Parks & Recreation Director for Anchorage, Alaska statement about the Harry J. McDonald recreational center ice rink project.



“Hillphoenix was there 24-7 for the complete installation working side by side with our team. They were very helpful in the installation of the entire systems.”

– Collin Szymanski, President Mantech Mechanical Inc., contractor in charge of the CO₂ systems installation for the Harry J. McDonald recreational center ice rink project.



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