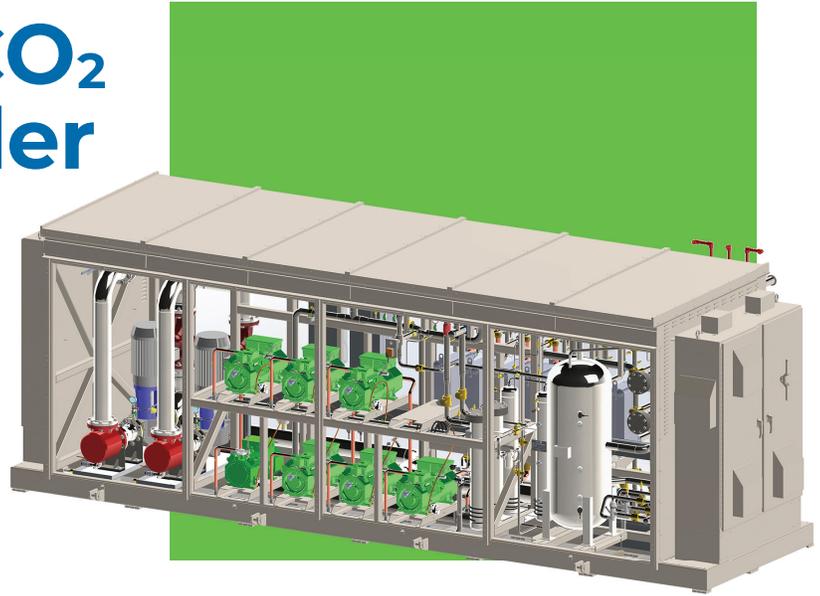




TransCritical CO₂ Industrial Chiller

A natural refrigerant-based refrigeration system that is safe, sustainable, and energy efficient in all climates.



Design Features:

- High pressure design eliminates a need for back-up generator and synthetic condensing unit during off-cycle
- Single heat exchanger (shell and tube) or multiple heat exchangers (brazed-plate)
- Pumped direct CO₂ design available for ice rink applications
- Transcritical semi-hermetic compressors
- High efficiency oil management system with multiple coalescing separator
- VFD on lead compressors
- Cooling capacities from 50 to 500 tons
- Flexible for different control systems
- Superheat and liquid sub cooler
- Microprocessor or PLC-based control systems with HMI and remote monitoring.
- Heat reclaim benefits
- Direct heat recovery (HVAC)
- Snow melt
- Domestic hot water
- Sub slab warming
- Process heating

Benefits:

Contractor:

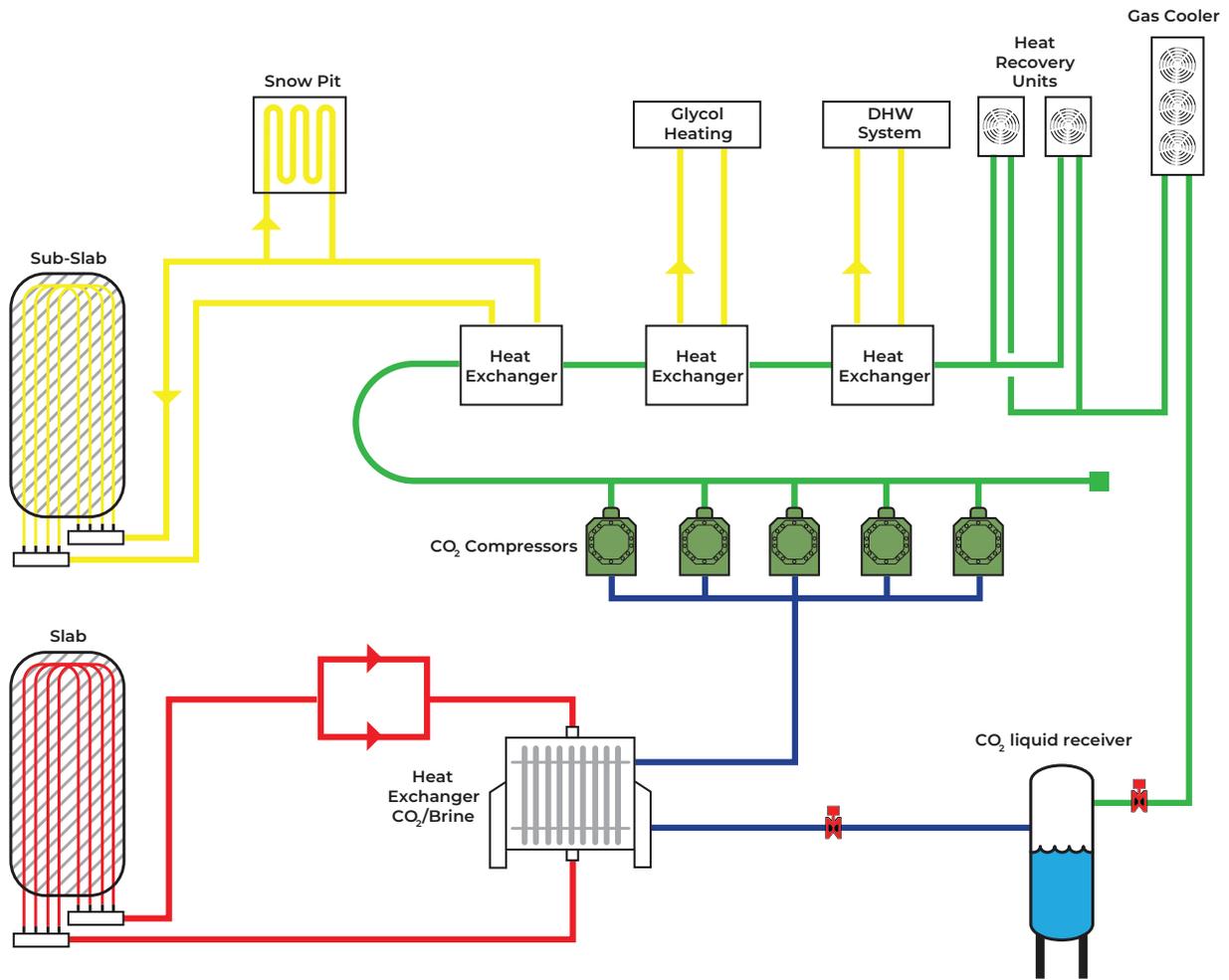
- Single point power connection
- Full access doors for commissioning, start-up and service
- Built-in pumping station
- Insulated vessels and piping
- Easy rigging
- Option for gas cooler roof support

End User:

- Regulatory cost and burden are significantly reduced
- Reduced energy costs
- Operating at higher suction temperatures
- Floating head pressure down to 50°F
- Intelligent and efficient heat recovery
- Significant reduction in maintenance
- No water treatment
- No sewer costs
- Semi-hermetic compressors do not require inspections for shaft seal replacements
- Outdoor design available to save on engine room
- Environmentally friendly, future-proof, natural refrigerant that costs 1\$/lb. on average

The natural solution.

System Diagram



Technical Data

Model	Capacity TR	Compressor Manufacturer	Compressor Quantity	Motor Power (HP)	Dry Weight (lbs.)	Dimensions (in.)
AQUILON CHILL 150	155	Bitzer or Dorin	Up to 4	Up to 200	14,000	200 x 72 x 100
AQUILON CHILL 300	309	Bitzer or Dorin	Up to 8	Up to 400	19,000	250 x 78 x 100
AQUILON CHILL 450	464	Bitzer or Dorin	Up to 12	Up to 600	23,000	300 x 78 x 100
AQUILON CHILL 600	619	Bitzer or Dorin	Up to 16	Up to 800	28,000	360 x 78 x 100

Performances based on PG 30% at 30°F Supply Duty. GC Return temp at 85°F.