

TerraChill

A COOLER APPROACH TO REFRIGERATION.

- Reduced carbon footprint using CO₂.



TerraChill

A natural refrigerant solution.

Hussmann's TerraChill is a natural refrigerant solution that reduces the HFC charge and features a lower carbon footprint than traditional central direct expansion systems. TerraChill uses pumped liquid CO₂ as a secondary fluid in both low temperature and medium temperature applications.

Lower HFC charge.

TerraChill can reduce the HFC charge up to 70% compared to typical central direct expansion systems. TerraChill is able to do this by using CO₂ as the cooling media in the display cases, while a small amount of HFC is used to condense the CO₂.


Estimated HFC Refrigerant Charge Comparison (LT and MT)

System	Air-Cooled	Water-Cooled
Central DX Rack	2200 Lbs	1900 Lbs
TerraChill DX2	770 Lbs	550 Lbs
% Reduction	65%	71%

Reduced carbon footprint.

Hussmann's TerraChill system has a lower carbon footprint than traditional central DX racks. By using CO₂ as a refrigerant and lowering the HFC charge, TerraChill achieves a reduced carbon footprint.

Carbon Footprint (Metric Tons 10 Years)



System	Rack	Protocol	Protochill	TerraChill
Carbon Footprint Reduction	Base	--	--	--
Total Cost of Ownership	Base	--	+	++

Full range of temperature applications.

CO₂ is an efficient refrigerant for both low temperature and medium temperature applications. Unlike other secondary systems, CO₂ partially evaporates in display cases, optimizing the heat transfer and making it an ideal choice for medium and low temperature secondary applications.

TerraChill environmental advantages vs. traditional rack systems.

- Use of lower cost natural refrigerant.
- Reduced HFC refrigerant charge (60-70%).
- Reduced carbon footprint (30-50%).
- Lower HFC refrigerant leak rate.
- Smaller pipe sizes than centralized direct expansion systems.

Other features.

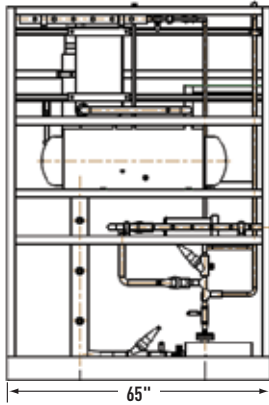
- Superior super heat control with standard electronic expansion valves.
- Optimized sizing through the use of multiple approach temperatures.
- Available with redundant CO₂ pumps.

Low Carbon Footprint Options

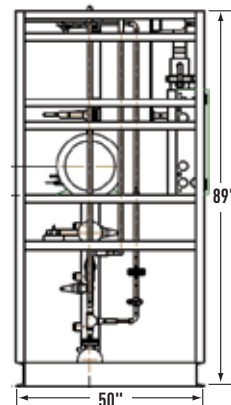
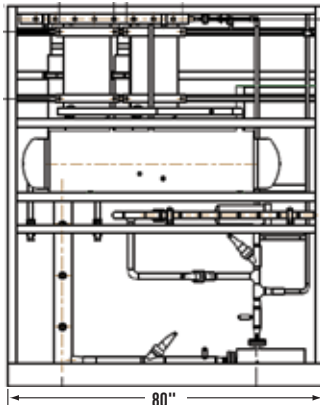
Installation Complexity	Low Carbon Footprint Options		
	Protocol	Protochill	TerraChill
High			■
Medium		■	
Low	■		

TerraChill dimensions.

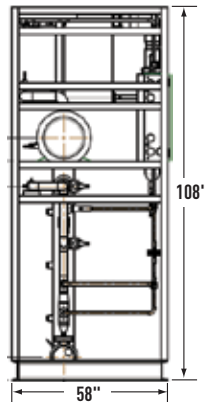
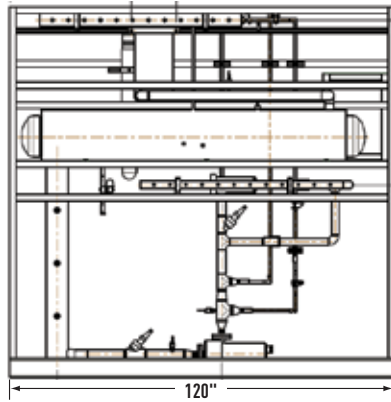
Low Temperature 250 and 300 MBtu Options



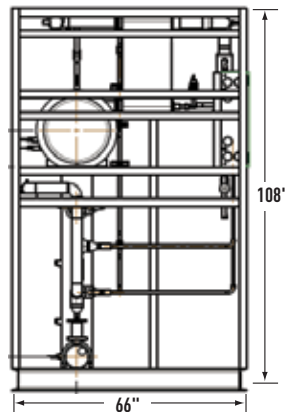
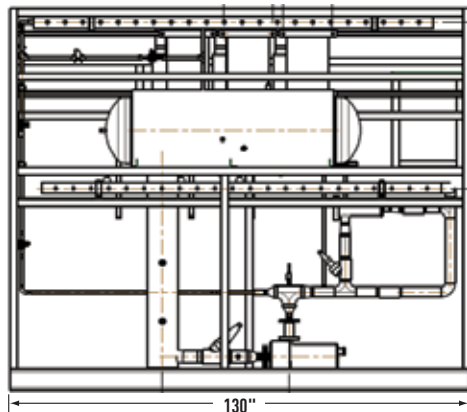
Low Temperature 350, 400, 450, 550, and Medium Temperature 400MBtu Options



Low Temperature 650 MBtu Option and Medium Temperature 500, 600, 700, and 800 MBtu Options



Medium Temperature 1000 and 1200 MBtu Options



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