

Envichill & Envicold

Natural CO₂ solutions for industrial temperature controlled storage applications



Star Refrigeration's Envichill and Envicold systems build on over 25 years of CO₂ experience to deliver optimised natural refrigeration solutions for chill and cold stores.



Envichill and Envicold have been specifically designed to provide reliable, efficient, long term solutions for industrial refrigeration applications.

Benefits

- › Future-proof solution which is not covered by the F-gas Regulation
- › 100% environmentally responsible natural refrigerant
- › A1 refrigerant safety rating; CO₂ is non-flammable with low toxicity
- › Attractive system energy performance
- › Robust industrial design, with over 20 years life expectancy
- › 65 Bar standard design pressure for enhanced standstill resilience
- › Redundancy via multi compressor design
- › Packaged arrangement for straightforward site installation
- › Designed for ease of maintenance

Features

Single stage transcritical CO₂ refrigeration systems, incorporating:

- › Multiple semi-hermetic reciprocating compressors
- › Low pressure receiver; delivering enhanced efficiency via semi-flooded evaporator operation
- › Welded steel pack pipe work
- › Dual pressure relief valves
- › High quality, industrial grade components throughout
- › Fully automated oil management system
- › Integrated control panel with optimised PLC controls and touch screen interface
- › Energy meters
- › Designed and manufactured in the UK

Optional Features

- › External weatherproof housing
- › Remote viewing, data trending, COP monitoring
- › Variable speed compressor control
- › Heat recovery
- › Increased maximum design pressures
- › Other options available on request



Both Envichill and Envicold are offered with the following capacities as standard. Bespoke versions are also available to match your specific site cooling requirements.

Technical Schedule – Standard Models (other configurations also available)						
Product	Capacity (kW)	Conditions	Power Supply (V/ph/Hz)	MWP (Bar(G))	Dimensions (m) (L x W x H)	Approx Weight (kg)
Envichill	100	-8°C SST, 35°C gas cooler outlet	400/3/50	65/120	5.1 x 2.1 x 2.4	4150
Envicold	90	-28.5°C SST, 35°C gas cooler outlet	400/3/50	65/120	5.1 x 2.1 x 2.4	4450

Information in this document is subject to change. Please contact Star Refrigeration for current technical specification. Revision – March 2018.