RefPlus

CO_2

A Technological & Environmental Revolution

CO_2 REFRIGERATION UNIT

COMMERCIAL COMPRESSOR RACKS

COMPACT, STURDY CONSTRUCTION

IDEAL FOR SMALL TO MEDIUM GROCERY STORES

PRE-OPTIMIZED BASE MODEL - SHORT DELIVERY LEAD TIME

DESIGNED FOR MAINTENANCE

BUILT FOR PERFORMANCE

RefPlus commercial compressor racks combine a compact, modular construction with a robust CO_2 system. Pre-engineered base design helps keep delivery lead time short, simplify installation and reduce overall project costs.

Designed specifically for demanding CO_2 refrigeration applications, these refrigeration units provide a strong and dependable solution for commercial refrigeration. They are ideal for small to medium grocery stores and refrigerated warehouses.

Refplus units offer superior energy efficiency. Each CO_2 unit is precisely sized to minimize pressure drop, optimize performance, and ensure maximum reliability.

Compact & sturdy construction — Maximizes space efficiency without compromising durability.

Pre-optimized design — Robust CO_2 system — Built to meet the demands of modern CO_2 refrigeration applications.

MAIN FEATURES

- Robust CO_2 system with compact design for low and medium temperature applications
- Four (4) semi-hermetic compressors
- Heat recovery system: up to 1100MBH (322kW)
- Smart oil management system with oil separator on medium temperature compressor group
- Stainless steel piping and tubing
- Suction accumulators on both groups of compressors
- CO_2 superheat for optimal system efficiency
- CO_2 flash tank
- Electric defrost

DESIGN PRESSURES

652 psig (45 bar) / **1741 psig** (120 bar) components when paired with an optional external emergency unit

1306 psig (90 bar) / **1741 psig** (120 bar) components with no emergency unit required

CAPACITIES & COMPRESSOR ARRANGEMENTS

Low Temperatures Models (LT)	Medium Temperatures Models (MT)	GC Temperature	SST (LT)	Q_LT [kBTU]	SST (MT)	Q_MT [kBTU]
4FME-7K + 4EME-9K	6FTE-35K + 6FTE-35K	95°F	-25°F	213	20°F	249
4DME-10K + 4DME-10K	6DTE-40K + 6CTE-50K	95°F	-25°F	282	20°F	322
4FME-7K + 4FME-7K	6CTE-50K + 6CTE-50K	95°F	-25°F	188	20°F	515

NOTE: Other compressor configurations available. Please contact RefPlus for more information.

OVERALL DIMENSIONS & WEIGHT

Length	137 3/8"	3,489mm
Width	48 7/16"	1,230mm
Height	79 1/2"	2,019mm

Approximate weight:	7,000lbs	3,175Kg

NOTE: Data is for a 45 bar unit. Dimensions do not include connecting pipes.

Compressors and control

Robust, semi-hermetic compressors, controlled by a variable frequency drive (VFD), are fitted as standard on all commercial units. For greater accuracy, an optional electronic capacity management system can replace the VFD and allow compressor motors to operate at a constant speed.

LT, MT compressors with variable frequency drive (VFD)

MT oil separator & suction accumulators

Each unit is equipped with an intelligent oil management system, including a coalescing oil separator for the medium-temperature group, suction accumulators for both compressor groups, and an oil tank.

Oil tank, MT oil separator and suction accumulators

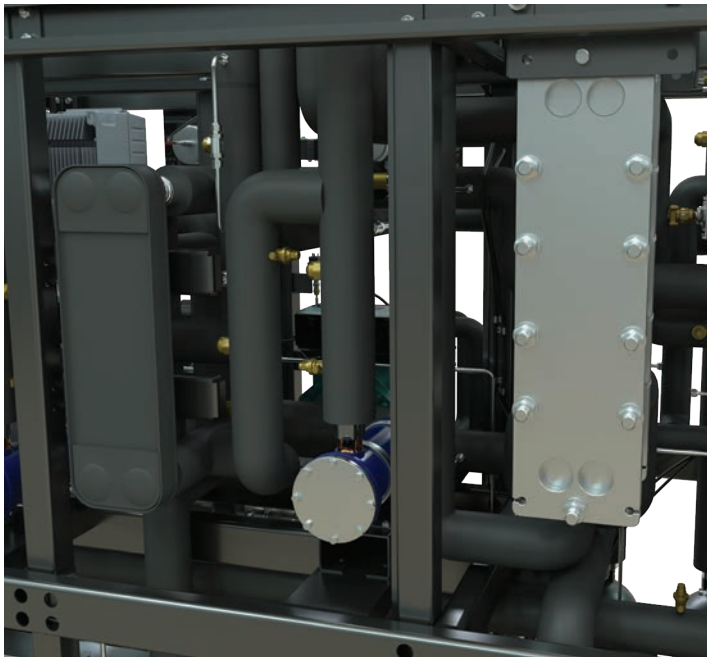
Pressure design for all your needs

All CO_2 racks are equipped with stainless steel tubes and pipes. The flash tank piping is designed to accommodate a plate heat exchanger with an optional side-mounted emergency unit for the **652 psig (45 bar)** / **1741 psig (120 bar)** pressure design. The **1306 psig (90 bar) / 1741 psig (120 bar)** incorporates rated reservoirs, filters and suction accumulators with the appropriate pressure, so that no emergency unit is needed.

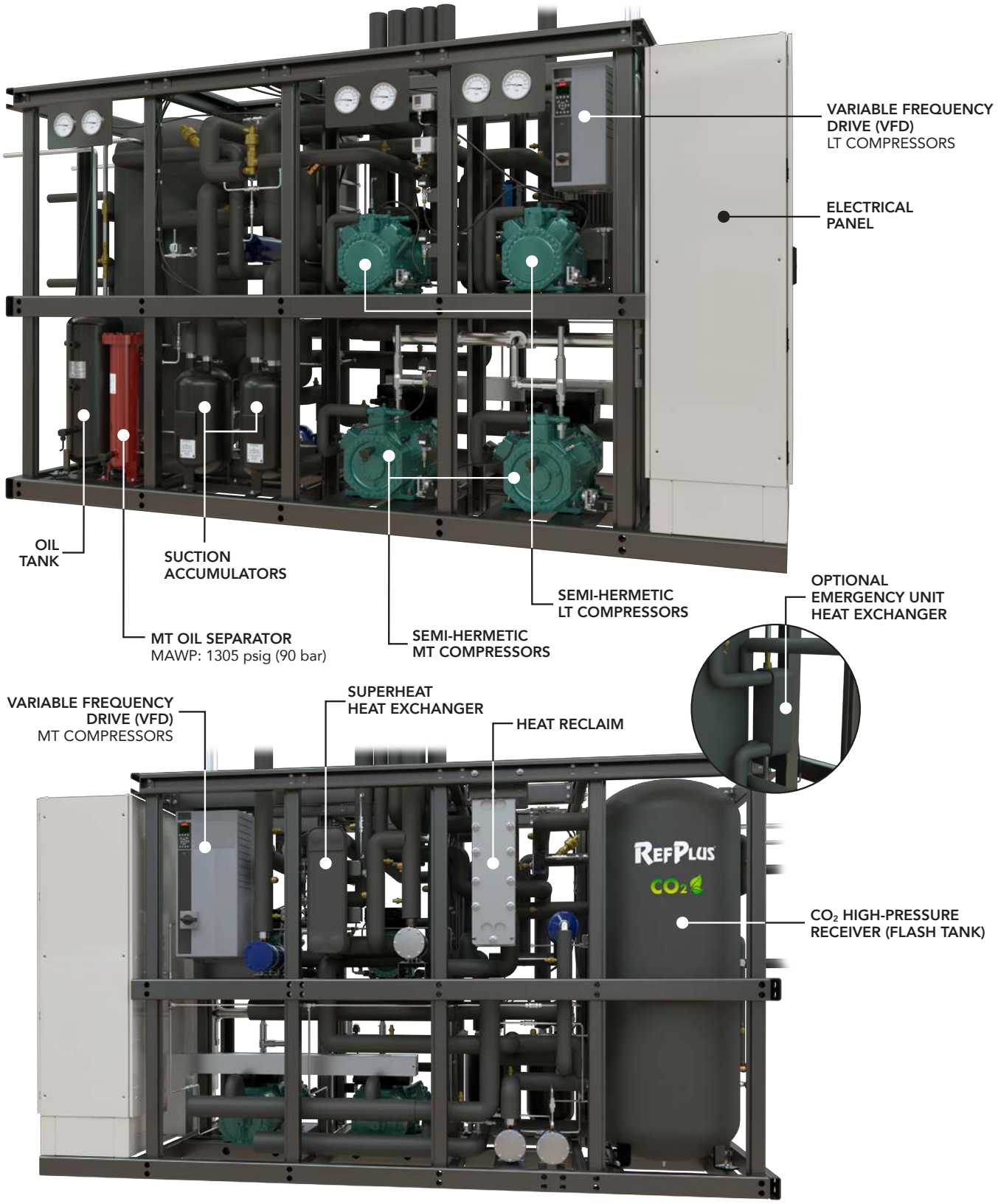
Optional plate heat exchanger for emergency unit

Heat Recovery System

A heat recovery system can provide up to 1100MBH (322kW) of heat using a plate heat exchanger. It can be used to heat water or provide auxiliary heating for your facilities. Additionally, heat recovery from the liquid line allows for LT compressor suction CO_2 to be superheated via a plate heat exchanger, thereby optimizing system efficiency.



Heat recovery system



NOTE: Shown model in this document is for reference only. Final unit may look or function differently.

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