

R744 + R1270 CO2 Cascade

🌿 Natural refrigerants available! #R290 #R1270 #R744

🌍 Choose CO2 and propylene - contribute to the environment!

Refra Cascade System, using a combination of CO2 and Propylene refrigerants, offers a highly efficient and environmentally friendly refrigeration solution. **In this configuration, Propylene is utilized to cool the CO2 refrigerant, ensuring continuous subcritical operation. This design enables the system to achieve low cooling temperatures and maintain a high coefficient of performance (COP) even under higher ambient temperatures.** This makes the system particularly effective in warmer regions, where traditional refrigeration systems struggle with energy efficiency.

The system you see here, in Chillventa, is designed specifically for smaller applications, with a cooling capacity of 39 kW, and is suited for applications with one or a maximum of two evaporators. However, Refra is also capable of producing Cascade systems with higher capacities to meet larger cooling demands.

Refra Cascade System utilizes advanced heat exchange technology, ensuring seamless heat transfer between the CO2 and Propylene refrigerant cycles. This efficient thermal exchange allows for optimized temperature control at low levels, improving overall system performance. By minimizing energy loss during heat transfer, the system operates with greater energy efficiency, reducing operational costs. The system delivers precise temperature control, ensuring consistent cooling across multiple applications. **This technology is ideal for food processing plants and supermarkets, where maintaining low temperatures is crucial for product quality. In industrial settings like manufacturing and chemical plants, the system ensures precise cooling of machinery and processes.** Data centers benefit from its accuracy in preventing overheating, while commercial buildings and agricultural facilities rely on its efficient climate control for optimal operational performance.



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