

R744 (CO₂) MCP Multi-Cylinder Pack

High-Volume Liquid CO₂ Supply for
Industrial & Commercial Refrigeration



Product Overview

R744 (Carbon Dioxide) is a natural refrigerant known for its excellent thermodynamic performance and ultra-low environmental impact.

Messer Canada's R744 MCP (Multi-Cylinder Pack) is a high-capacity liquid CO₂ supply solution engineered for customers with medium-to-high consumption requirements.

Technical Specifications

Specification: Details

Refrigerant: R744 (CO₂)

Total Capacity: 1,152 lbs liquid CO₂

Configuration: 16 × T-size cylinders

Valve Type: Dip tube valve (liquid withdrawal)

Outlet Connection: CGA-320

Frame: Heavy-duty steel

Gross Weight: 3,900 lbs

Handling: Forklift compatible / Crane hook lifting

Application: Commercial & Industrial Refrigeration

Each MCP unit includes:

- 16 T-size cylinders
- 1,152 lbs of liquid CO₂
- Cylinders securely bonded and strapped within a heavy-duty steel frame
- Designed for safe handling via forklift or overhead crane
- CGA-320 outlet connection
- Each cylinder equipped with a dip tube valve for liquid withdrawal

This configuration delivers operational efficiency, safety, and high-volume availability in one compact, organized package.

What is R744?

R744 (CO₂) is:

- A natural refrigerant
- Ozone Depletion Potential (ODP): 0
- Global Warming Potential (GWP): 1
- ASHRAE safety classification: A1 (non-flammable, low toxicity)
- Widely used in commercial and industrial refrigeration systems

Typical applications include:

- Food processing facilities
- Cold storage warehouses
- Supermarkets (transcritical systems)
- Industrial refrigeration installations

Key Features & Benefits

High Capacity in a Compact Format

- 1,152 lbs of liquid CO₂ per MCP
- Reduces cylinder change frequency
- Ideal for higher-consumption operations

Liquid Withdrawal Ready

- Each cylinder equipped with a dip tube valve
- Enables direct liquid extraction
- Ensures consistent liquid supply for refrigeration systems

Standardized Connection

- CGA-320 outlet connection
- Compatible with standard CO₂ system configurations
- Simplifies installation and integration

Operational Efficiency

- Fewer deliveries compared to individual cylinders
- Reduced handling and labor time
- Streamlined inventory management

Safe & Robust Design

- Cylinders secured in reinforced steel frame
- Stable during transport and on-site placement
- Designed for forklift handling or overhead crane lifting

Environmental Responsibility

- Natural refrigerant solution
- Ultra-low GWP (1)
- Supports sustainability and ESG initiatives

Ideal For Customers Who:

- Operate high-consumption CO₂ systems
- Require reliable liquid withdrawal
- Want fewer cylinder change-outs
- Need safe and organized storage
- Value sustainable refrigerant solutions

Individual Cylinder:

- Messer Canada also supplies individual R744 cylinders with DT for liquid extraction
- Cylinder Size: K Size
- TW: 130 lbs
- GW: 180 lbs (50 lbs of product)

Why Messer Canada?

- Messer Canada combines:
- Reliable product availability
- Refrigerant technical expertise
- Compliant and safe packaging solutions
- Support for evolving low-GWP refrigeration technologies

The R744 MCP provides a scalable, efficient, and professional-grade CO₂ supply solution for demanding refrigeration operations.

Part

24110533	MCP
24110537	Clinder

How to place an order

Contact Our Customer Service team at 1-866-385-5349
or email: Scientific@messer-ca.com
Mon-Fri 8:00 am to 5:00 pm local time



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