



RE-CO₂ 3500

Large Volume, Sustainable
Carbon Capture in your dry ice production

System Specifications

LIQUEFACTION CAPACITY	Up to 7,716 lbs/hr (3500kg/hr) off-gas <small>*Capable of up to 11,000 lbs/hr (5000 kg/hr) upon request</small>
DIMENSIONS <small>Length x Width x Height</small>	40 x 28.5 x 14.3 ft (12192 x 8674,61 x 4349,68 mm)
WEIGHT	77,161.8 lb (35 ton)
VOLTAGE & FREQUENCY	3 x 400V+N+PE, 50 Hz, TN-S
POWER	1000 kVA
POWER CONSUMPTION	135 kWh / ton CO ₂
PRESSURE (CO₂)	Incoming: 0 barg to 0.3 barg Outgoing: 18 barg
PRESSURE DEW POINT	-40°F (-40°C) or lower
REFRIGERANT	R744 (CO ₂)
AMBIENT TEMPERATURE RANGE	5°F (-15°C) to 95°F (35°C)
TEMPERATURE (CO₂)	Incoming: -22°F (-30°C) to 95°F (35°C) Outgoing: -22°F (-30°C)
SETUP	1x 40 ft Container 2x 20 ft Container

OPTIONS

- Gas Dryer**
Control the pressure dew point of the CO₂ gas before liquefaction.
- CO₂ Emissions Reporting Package (ESG)**
Ability to measure reduction in CO₂ emissions.
- Services**
Preventive maintenance
Client-side Utilities, piping and electrical engineering support
Remote technical support

Key Features

Eliminate Pressure Buildup in Storage Tank

Our system controls the pressure in your liquid CO₂ feed tank, enhancing the overall performance of your plant.

Fully Autonomous Operation

Simplifies processes with minimal user intervention.

Variable Throughput

Able to easily handle variations in feed flow.

Compact and Modular Design

Containerized units ensure ease of installation without extensive infrastructure requirements.

Ecological Refrigerant

R744 (CO₂), natural refrigerant, closed-loop liquefaction system.

Energy Efficiency Package

Reduce plant's energy consumption by +/- 10%.

Energy set free during liquefaction is recovered.