

CO₂ Supply Solution



Supercritical CO₂ extraction machines require a reliable source of CO₂ supply at constant pressure levels for efficient extraction. extraktLAB has created CO₂ supply solutions for any manufacturing capacity or production configuration.

CO₂CAGE™

CO₂ Supply for Extractors

The CO₂Cage serves as the primary source of supply to extractors with a capacity of 1,600 lbs of liquid CO₂. It provides a safe and convenient solution for constant pressure input levels needed for efficient extraction, and incorporates sixteen 100-pound liquid CO₂ cylinders, DOT certified, attached to a single manifold.

The CO₂Cage comes with supply lines that will connect directly to the extractor, and it is easily filled on-site by connecting local supplier tank truck hose to an exterior fill valve. Load cell monitors constantly read the amount of CO₂ remaining, and replenishment alarms provide reminders of when to refill. You'll never lose a production day because of running out of CO₂.

On-board electronics, monitors and sensors feed usage data to the touch-panel display for easy operator control. Storage tanks are safely enclosed in a steel cage, while CO₂ alarms constantly monitor the airspace in and around the CO₂Cage.

The typical configuration for smaller production lines is one CO₂Cage for each extractor. For larger production lines with three or more extractors, the CO₂Cage can be configured with the MPCART step-up pump to use outdoor bulk tanks as the supply source resulting in fewer CO₂ deliveries and lower CO₂ prices. In this configuration, the CO₂Cage serves as the "brain" for the MPCART, automatically turning the pump on and off at present levels to keep the CO₂Cage full.



e-MPCART™

Step-Up Pump for CO₂Cage

The MPCART is a step-up CO₂ pump mounted on a movable cart and is integrated with the operating functions of the CO₂Cage. It draws CO₂ from outdoor bulk storage tanks at 300 psi, and steps the pressure up to 800 psi to keep the CO₂Cage full.

The MPCART is controlled by the electronics and touch screen display on board the CO₂Cage for automated replenishment. It comes with 100 feet of CO₂ hose and power cabling for connecting to the CO₂Cage for maximum versatility in factory floor placement.



SPECIFICATIONS

CO ₂ Cage			
ATTRIBUTE	VALUE	ATTRIBUTE	VALUE
General Specifications		Electrical Specifications	
Dimensions (in)	L51 x W62 x H83	Active Heating (Infrared, W)	3,000
Unit Weight (lbs)	4,200	Certifications, Listed	UL 508A, CSA, cUL, and CE
Alarms	Audible, Visual Alarms	E-stop; Thermal Switches	Standard
Compliance	NFPA 55 Compliant	Frequency (Hz)	50/60
Environmental	Indoor Use Only	Full Load Amps (amps)	24
Filling Method	Ventless, AIGA 069	Phase	3
HMI	Touchscreen	Voltage (VAC)	208-230/380
Inlet Fitting (male)	CGA 320	Warranty	
Insulation	R10	Duration (months)	12
Leak Sensor	CO ₂ , NIST Traceable	Quality and Labor	Parts & workmanship
Load Cells	Automatic Tare, Trending, Alarms		
Max Fill (lbs)	1,600		
Mobility	Not for transportation		
MWAP (psi)	3,000		
Outlet Fitting (in)	1/2 NPT		
Venting	Stack Included		

SOLD SEPARATELY:

#80-9608 | GMP Equipment Commissioning & Training Package

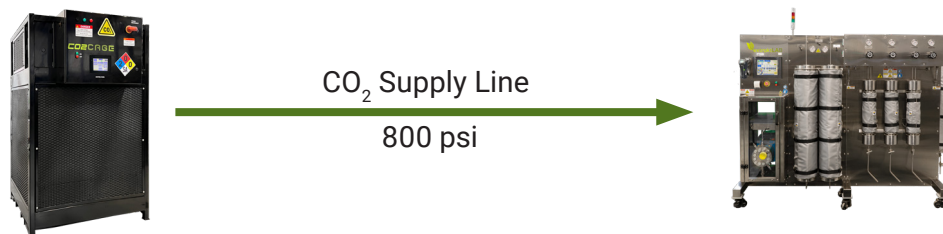
#80-9606 | GMP Equipment Documentation Package

#80-9609 | Maintenance Package (12 months)

MPCart	
ATTRIBUTE	VALUE
General Specifications	
Dimensions (in)	L52 x W24 x H56
Unit Weight (lbs)	690
Control Type	PLC, Manual Switch
Feed Hose Connection (in)	1-1/2 F CGA
Feed Hose Length (ft)	5
Fill Hose Connection	CGA 320
Fill Hose Length (ft)	100
Inlet (psi)	300-350
Maximum (RPM)	1,750
Output (HP)	5
Electrical Specifications	
Electrical (A, V)	21-23, 208-230/380
Electrical Plug Type	HBL2621S
Frequency (Hz)	50/60
Phase	1

CO₂ SUPPLY CONFIGURATIONS

Smaller Production Lines



Larger Production Lines



Available Separately, To Order:

CO₂ Cage #10-0009 (208-230V) | #10-0097 (380V)

electronic MPCART #10-0131 (208-230V) | #10-0155 (280V)



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