

PurCO₂ Satellite Distribution Systems

CO₂ Supply Tank to Tool



PurCO₂ Satellite DLE5 (CC) Series (Changeover Circuit) System, shown with optional Panel-Mounted Pump Cycle Timers

High quality, high capacity, high pressure, and clean CO₂ from low pressure supplies for our CO₂ Powered™ precision cleaning systems...

SYSTEM DESCRIPTION

PurCO₂ Satellite CO₂ distribution systems produce and deliver a continuous supply of high-pressure regulated gas or liquid CO₂ from a bulk or mini-bulk supply of low-pressure gas (nominally 300 psig) to a remote CO₂ Powered cleaning tool. Compressed gas is compressed into a liquid using an optional heat exchanger system to provide pressure-regulated CO₂ liquid as needed. The PurCO₂ Satellite CO₂ distribution systems employ one or (optionally) dual pneumatic pumps and

various controls to allow a pump to operate intermittently to extend the time required for maintenance. Dual pump (i.e., DLE5 (CC) and DLE5-2 (CC) series) PurCO₂ Satellite CO₂ distribution systems provide a changeover valve circuit on the control panel which allows for system maintenance to be made while the system continues to deliver high-capacity clean gas or liquid to your precision cleaning system.

HP GAS OR LIQUID CO₂ SUPPLY

PurCO₂ Satellite CO₂ distribution systems are available in three capacities (lbs./hour (PPH)): 25 PPH, 50 PPH, and 100 PPH, and may be equipped with an (optional) chilled water-based heat exchanger system to remove the pressure boost (300 psi → 850 psi) compression heat from the high pressure CO₂ gas to produce a pure saturated liquid CO₂ output. Coolant is typically industrial water or recirculating chilled water supplied at a temperature of about 50°F.

PNEUMATIC OPERATION AND CONTROL

PurCO₂ Satellite CO₂ distribution systems utilize 100% pneumatic operation and control with an internal CO₂ air pilot pressure switch system to pneumatically limit the outlet CO₂ pressure for trouble-free, stable, and safe operation. The basic control panel (example shown on the right) features an air pressure regulator and gauge for gas booster pump power (CO₂ outlet pressure) control, and inlet and outlet CO₂ pressure gauges and flow controls. The gas booster pump operates until the internal system pressure triggers the pilot high-pressure switch set point. After this condition is met, the system idles until the low-pressure pilot pressure switch set point is triggered. A continuous flow of constant pressure, clean gas (or saturated liquid) CO₂ is produced and supplied to remotely located CO₂ Powered tools within the factory or cleanroom.



PurCO₂ Satellite Control Panel

PRODUCT SPECIFICATIONS (ex: PURCO₂-SATELLITE-DLE5-50 PPH (50 lbs./hour))

Chassis Dimensions	20 in.(D) x 38.5 in.(W) x 40 in.(H)
Air Supply (@ 100 psig)	46 scfm
Coolant Supply (@ 50 F/10 C)	1-5 gpm
Clean CO₂ Capacity (@850 psig)	50 lbs./hour



OPTIONS

- Delivery Capacities: 25, 50, and 100 lbs./hour, 300→850 psig.
- Pump Maintenance Cycle Timers
- Internal Heat Exchanger
- Recirculating Water Chiller (External Module)
- Changeover Circuit (DLE5 (CC) and DLE5-2 (CC))



Clean Manufacturing, *Reimagined.*

clean
imagineering™

CLEANLOGIX
a division of Clean Imagineering LLC

767 Hawthorne Avenue Unit B
Ponderay, ID 83852 U.S.A.
<https://www.cleanimagineering.com>
info@cleanimagineering.com
+1 (661) 430-6767

© Clean Imagineering LLC
All Rights Reserved

Cleanlogix Tech Spec PurCO₂ Satellite.PDF
Release Date: May 29, 2026