



**High Pressure Equipment**  
A GRACO Company

## Supercritical CO2 Extraction Pump System

# e710

In response to the burgeoning market demand for environmentally friendly extraction processes for a wide range of natural oils and foods, High Pressure Equipment Company has developed the **e710 supercritical CO2 extraction pump system**. This ATEX, FM, and IECEx certified system features an electric CO2 extraction pump specifically designed for CO2 circulation to recover 100% of the CO2 vapor when used with recovery tank cooling. The e710 offers a small footprint (17.0" x 20.4" base x 58" high) with the electric motor providing quiet operation. HiP's patented pump/drive technology is the industry's first high pressure electric pump system that does not require an air compressor and uses an explosion-proof motor rated for C1D1 areas. The e710 pump can provide a continuous 100% duty cycle for 24/7 operation with constant pressure or constant flow control. The system is designed to process liquid condensation without damage and to pull vacuum back through the pump when evacuating a system.

### e710 Supercritical CO2 Extraction Features:

- Environmentally friendly extraction process
- Ideal extraction process for natural oils, foods and cannabis
- ATEX, FM and IECEx Certified supercritical CO2 extraction pump system
- Positive displacement CO2 extraction pump
- Designed specifically for CO2 circulation
- Recovers 100% of CO2 vapor when used with recovery tank cooling
- Pull vacuum back through the pump when evacuating a system
- Passes liquid condensation without damage



# e710 Supercritical CO2 Extraction Pump System

## e710 Electric Pump System Features:

- Explosion-proof motor rated for C1D1 areas
- Control technology drives the pump to a constant pressure or flow
- Three-phase and single-phase models available
- Continuous 100% duty cycle - run 24/7
- No air compressor needed
- Patented pump drive technology
- Stall under pressure without damage
- Start against full load and pressure
- No driving air used, cannot leak air into the system
- Maximum pumping pressure output and/or flow is adjustable
- No lubrication in the pump heads; no contamination of product
- Compliant with ATEX, FM and IECEx standards for C1D1 motors
- Meets Class 1 Division 1 hazardous area facility requirements (when installed correctly)
- PLC control for remote operation



### C1D1 Certifications

- ATEX/FM/IECEX

### Motor Controls

- Constant Pressure
- Constant Cycle Rate/Flow

### Motor User Interface

- Basic (knobs)
- Advanced (pendant or PLC)

### Motor Output Options

240 VAC Eflo DC

- 2520 lbf
- 20 cpm

480 VAC Eflo DC

- 3392 lbf (1.35x)
- 20 cpm

### Fluid Pump

Dura Flo 2-Ball Piston

- Sizes: 145, 220 cc
- Packings: PTFE/UHMWPE
- Check Seat; Tungsten Carbide
- Check Ball: 440 SST
- Rod: 17-4 PH SST w/Hard Chrome
- Cylinder: 304 SST w/Hard Chrome
- Housings: 17-4 PH SST

### Dura Flo Pump

		220 cc	145 cc
E Flo DC Motor	240 VAC	1.16 GPM @ 2030 psi	0.77 GPM @ 3040 psi
		4.4 LPM @ 140 bar	2.9 LPM @ 210 bar
	480 VAC	1.16 GPM @ 2741 psi	0.77 GPM @ 4104 psi
		4.4 LPM @ 189 bar	2.9 LPM @ 284 bar

To learn more about the **e710 supercritical CO2 extraction pump system**, visit us online, email [pumps@highpressure.com](mailto:pumps@highpressure.com) or give us a call today at **800-289-7447**.



**High Pressure Equipment**

A **GRACO** Company

[www.HighPressure.com/e710](http://www.HighPressure.com/e710)