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 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

<table>
<thead>
<tr>
<th>Dura Flo Pump</th>
<th>220 cc</th>
<th>145 cc</th>
</tr>
</thead>
<tbody>
<tr>
<td>E Flo DC Motor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>240 VAC</td>
<td>1.16 GPM @ 2030 psi</td>
<td>0.77 GPM @ 3040 psi</td>
</tr>
<tr>
<td></td>
<td>4.4 LPM @ 140 bar</td>
<td>2.9 LPM @ 210 bar</td>
</tr>
<tr>
<td>480 VAC</td>
<td>1.16 GPM @ 2741 psi</td>
<td>0.77 GPM @ 4104 psi</td>
</tr>
<tr>
<td></td>
<td>4.4 LPM @ 189 bar</td>
<td>2.9 LPM @ 284 bar</td>
</tr>
</tbody>
</table>

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

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