



**High Pressure Equipment**  
A GRACO® Company

HIGH PRESSURE EQUIPMENT CO.  
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## MODEL e710

The most valuable pump for supercritical CO<sub>2</sub> extraction processing.

### **FEATURES & BENEFITS:**

Part Number: 30H00X/EDEN00X

FM Certified system supercritical CO<sub>2</sub> extraction pump

Positive displacement CO<sub>2</sub> extraction pump

Designed especially for CO<sub>2</sub> circulation

Recovers 100% CO<sub>2</sub> vapor when used with recovery tank cooling

Can pull vacuum back through the pump when evacuating a system

Passes liquid condensation without damage

Explosion-proof motor rated for C1D1 areas

Three-phase and single-phase models available

Continuous 100% duty cycle – run 24/7

No air compressor needed

Patented pump drive technology

Can stall under pressure without damage

Can 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

Control technology drives the pump to a constant pressure or flow.

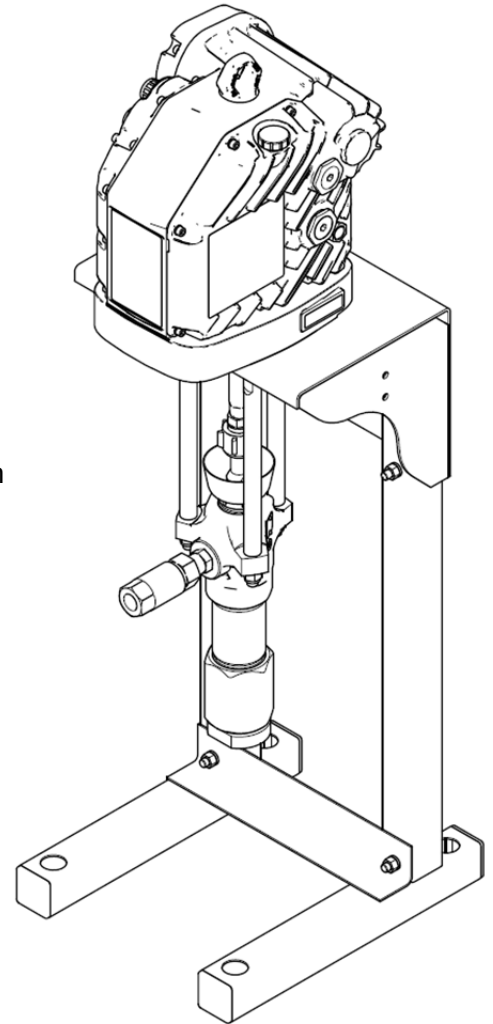
No lubrication in the pump heads; no contamination of product

Compliant with FM and IECEx standards for C1D1 motors

Meets Class 1 Division 1 hazardous area facility requirements (when installed correctly)

One year manufacturer's warranty (see Operation Manual)

PLC control for remote operation



## **PERFORMANCE FACTOIDS:**

Pump liquid CO<sub>2</sub> at **1 GPM** (gallons per minute)

Pump liquid CO<sub>2</sub> at up to **9.2 LB/MIN** (pounds per minute)

Pump liquid CO<sub>2</sub> at **OVER 60 GPH** (gallons per hour)

Maximum pumping outlet pressure: **4000 PSI** (276 bar) continuous

Maximum pumping inlet vacuum produced: **27 InHg** (0.91 bar)

Maximum pumping speed: **20 CPM** (cycles per minute)

Pump static withstand pressure rating: **6000 PSI** (414 bar)

Materials: pressure section: stainless steel, PTFE, UHMWPE; check valves: stainless steel

Process temperature range: **0° - 165°F** (-18° - 74°C)

Recommended motor oil replacement schedule: once per year after 250K cycle break-in

Air temperature range for motor/gearbox operation: **32°-104°F** (0° - 40°C)

## **ELECTRICAL & MECHANICAL:**

Electric motor: **2 HP, 20 CPM, 50/60 HZ**

Motor option: Models EM0070/71: **200-240 VAC, single phase, 50/60 Hz, 2.9 kVA**

Motor option: Model EM1070/71: **Three-phase: 200-480V, 50/60 Hz, 3.0 kVA**

Noise: sound pressure measured 1 meter from pump: **Less than 70 dB(A)**

Porting: process inlet: 1-1/2" NPT (can reduce to 3/4" NPT minimum)

Porting: process outlet: 3/4" NPT

Added ports for optional pressure gauges: outlet: 3/8" FNPT

Inlet & outlet ports at ideal equipment connection heights 11.5" and 25" above floor

Size: **17.0" x 20.4" base x 58" tall**; minimum use of valuable floor space

Weight: 220 lb (91 kg)

## **AGENCY APPROVALS**



II 2 (1) G  
Ex db [ia] IIA T6 0°C ≤ Ta ≤ 40°C  
FM12ATEX0067X  
IECEX FMG 12.0028X



APPROVED For Class I, Div. 1, Group D T6.  
Class 1, Zone 1, AEx db [ia] IIA T6 0°C ≤ Ta ≤ 40°C  
Ex db [ia] IIA T6 0°C ≤ Ta ≤ 40°C