MODEL e710

The most valuable pump for supercritical CO₂ extraction processing.

FEATURES & BENEFITS:

Part Number: 30H00X/EDEN00X
FM Certified system supercritical CO₂ extraction pump
Positive displacement CO₂ extraction pump
Designed especially for CO₂ circulation
Recovers 100% CO₂ 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

Made in the USA
PERFORMANCE FACTOIDS:

Pump liquid CO₂ at **1 GPM** (gallons per minute)
Pump liquid CO₂ at up to **9.2 LB/MIN** (pounds per minute)
Pump liquid CO₂ 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

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