EXT420 Butane/Propane Extraction Pumps
High-Pressure Positive-Displacement Piston Pumps

Models EXT420 and EXT420-2-82992

EXT420 high-pressure, positive-displacement piston pumps are safe, proven, reliable, and energy saving butane / propane extraction pumps. The high-pressure pumps offer the flexibility to speed completely variable from zero to maximum lbs/minute. No need for unloaders or bypass valves, simply add gauges and hoses to suit your application.

Applications
Designed for extraction of essential botanical oils

Features and Benefits
- Safe for handling propane and butane (Vent port must be connected to an exhaust line that vents leaked gas outdoors)
- Viton and PTFE seals
- Stainless steel and aluminum wetted components
- High butane transfer rates
- No electrical components
- Stall against load - start against load - or run dry
- Requires compressed air to drive the pump - approximately 25 CFM at 90 psi (6 bar) to run the pump at maximum speed (about 60 cycles per minute)
- Clean – No lubrication required in the gas section - Nothing is added to the gas

Operation
Proper operation of the Haskel EXT420 pumps will require the following additional equipment:
- Compressed air source capable of providing approximately 25 CFM of air at 90 psi (6.2 bar) or higher (Compressor must be located in an area away from the LPG gasses)
- Compressed air filter filtering to 40 microns or better
- Drive air pressure regulator - Normally set between 25-40 psi
- Drive air speed control valve - such as a gate valve or a globe valve (not a ball valve)

Operation Schematic

Model Number Configuration
EXT – Extraction Pump
4 – Pump has a ratio of 4:1
20 – Pump displacement of 20 cubic inches

EXT420 Specifications
- Single stage
- Ideal when inlet pressures are 25 to 50 psi (1.7 to 3.4 bar) and outlet pressures are 125 to 150 psi (8.6 to 10.3 bar)
- Pump will transfer approximately ½ lb/min with an inlet pressure of 50 psi (3.4 bar) and an outlet pressure of 150 psi (10.3 bar) at maximum speed
- Will draw pressure down to 15 psi (1 bar) with an outlet pressure of 150 psi (10.3 bar)

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EXT420 Dimensions

EXT420-2 Specifications

• Switchable between single and two-stage mode by turning a valve
• Use single stage mode for most of the transfer - when the inlet pressure starts to drop - switch to two-stage mode to pull vacuum as your process requires
• In single stage mode - the pump has identical performance to EXT420
• Two stage mode allows the pump to draw vacuum down to 23-in. Hg

EXT420-2 Two Stage Flow Rates

EXT420-2 Dimensions