EXT-420 Butane/Propane Extraction Pumps
High-Pressure Positive-Displacement Piston Pumps

Models EXT-420 and EXT-420-2
EXT-420 high-pressure, positive-displacement two-stage 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 supercritical 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 30 CFM at 100 psi (7 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
• 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

EXT-420 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)

EXT-420 Single Stage Flow Rate

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EXT-420 Dimensions

EXT-420-2 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" Hg

EXT-420-2 Two Stage Flow Rates

EXT-420-2 Dimensions