

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

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)

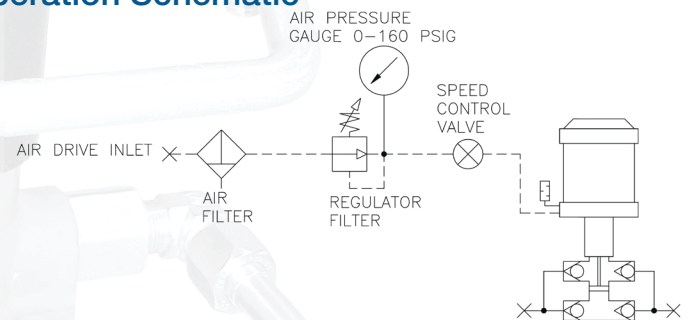


Operation

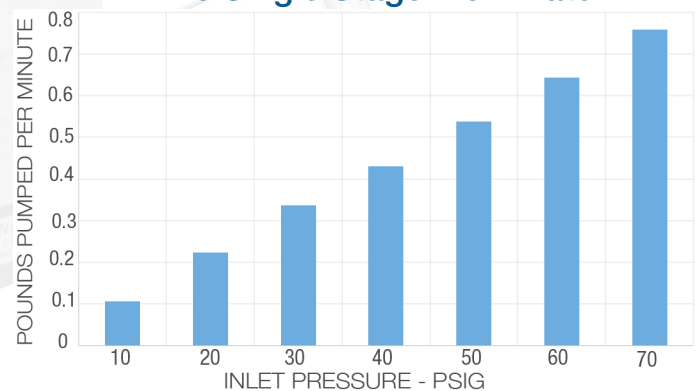
Proper operation of the Haskel EXT420 pumps will require the following additional equipment:

- 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



EXT420 Single Stage Flow Rate

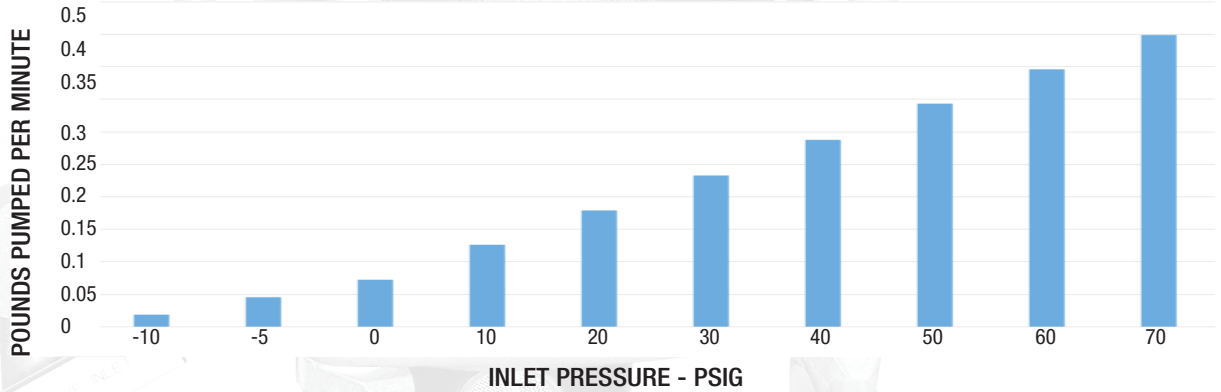




EXT420-2-82992 Specifications

- 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.

EXT420-2-82992 Two Stage Flow Rates



EXT420-2-82992 Dimensions

