

ERPP Pneumatic Pump

The PHD Pneumatic Pump electrically produces pressurized air on demand to power conventional open-loop pneumatic systems

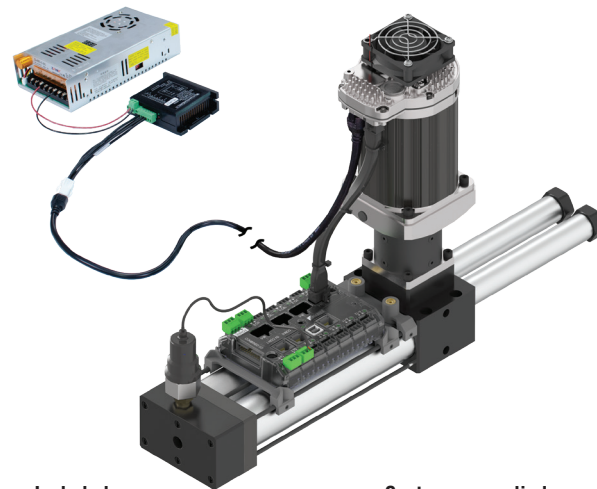
Major Benefits

- Provides point-of-use pressurized air source
- Uses standard valves, air lines, and filters to control pneumatic actuators
- Typically used with an external accumulator to create a compressed air reservoir and automatically stops when preset pressure is reached.
- Reduced noise compared with “pancake” style air compressors
- Customizable to meet your specific application. Consult PHD for other sizes and options and accumulator tanks.

Operation

- Two servo motor driven pistons alternately extend and retract to pressurize connected air accumulator
- Integrated check-valves allow air to flow out of ERPP and close to prevent loss of generated pressure
- On-off signal commands ERPP to begin producing pressure
- Integral pressure switch monitors pressure level and stops ERPP cycling when pressure of 87 psi (6 bar) is reached

NOTE: PHD recommends the use of a water filter between the pump and accumulator to remove condensed moisture.

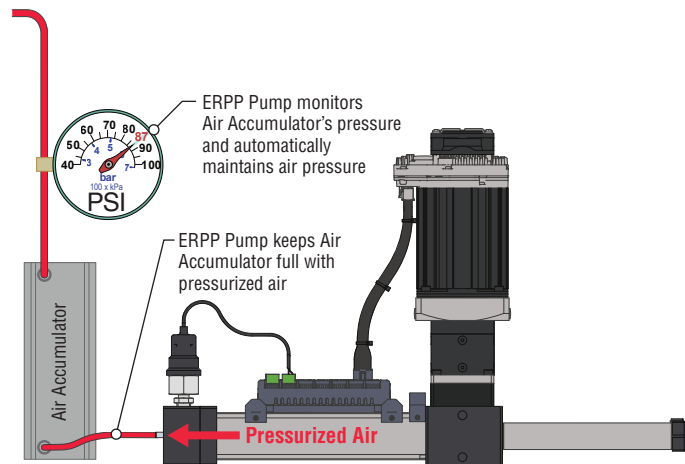


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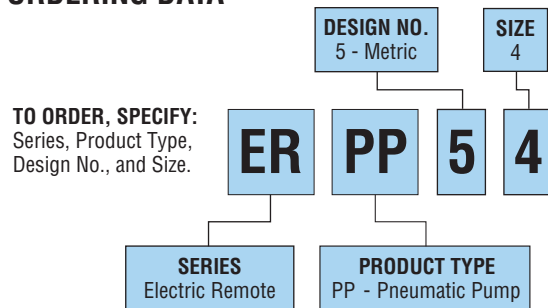
- Pump
- Pump Controller
- Regeneration Clamp
- Motor Power Supply - 50/60 Hz at 110 VAC or 220 VAC adjustable input

Customer supplied:

- 110 VAC or 220 VAC power cord
- 24 VDC power supply for controller
- Typical pneumatic valves, connections, and controls



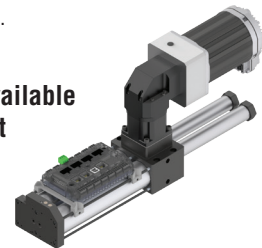
ORDERING DATA



NOTES:

- 1) Accumulators are available from PHD and are optimized for the specific application. Contact PHD for more information.
- 2) Other sizes, options, and accessories available. Consult PHD.

Foldback motor models available for reduced footprint



Uses

- Provides point-of-use compressed air
- Supplies air where centrally produced compressed air is not available
- Provides quiet operation
- One pump can power multiple pneumatic actuators

Application Examples

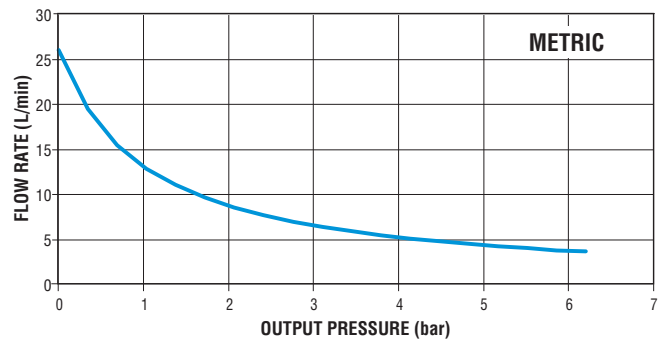
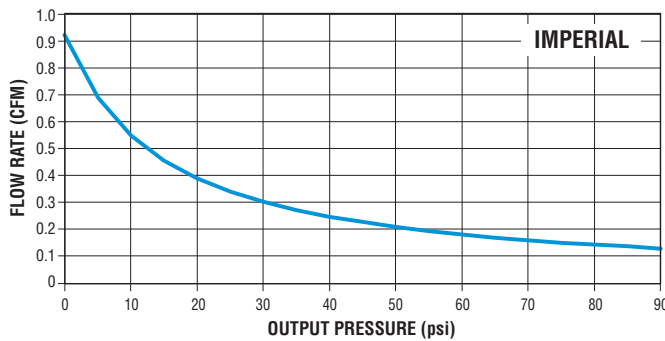
- Automated guided vehicles
 - Welding cells
 - Crossbar robotic feeding
 - Medical/Hospitals
 - Packaging
 - Robotic EOAT
 - Assembly cells
 - Food processing
- And many others
Consult PHD with your application needs.

SPECIFICATIONS	ERPP54
MOTOR POWER SUPPLY ⁽¹⁾	480 W ⁽³⁾ , 110/220 VAC, 50/60 Hz Input
MOTOR CONTROLLER POWER SUPPLY ⁽²⁾	5 W Minimum, 24 VDC
TYPICAL NOISE LEVEL	50 dB
WEIGHT	18.14 lb [8.23 kg]

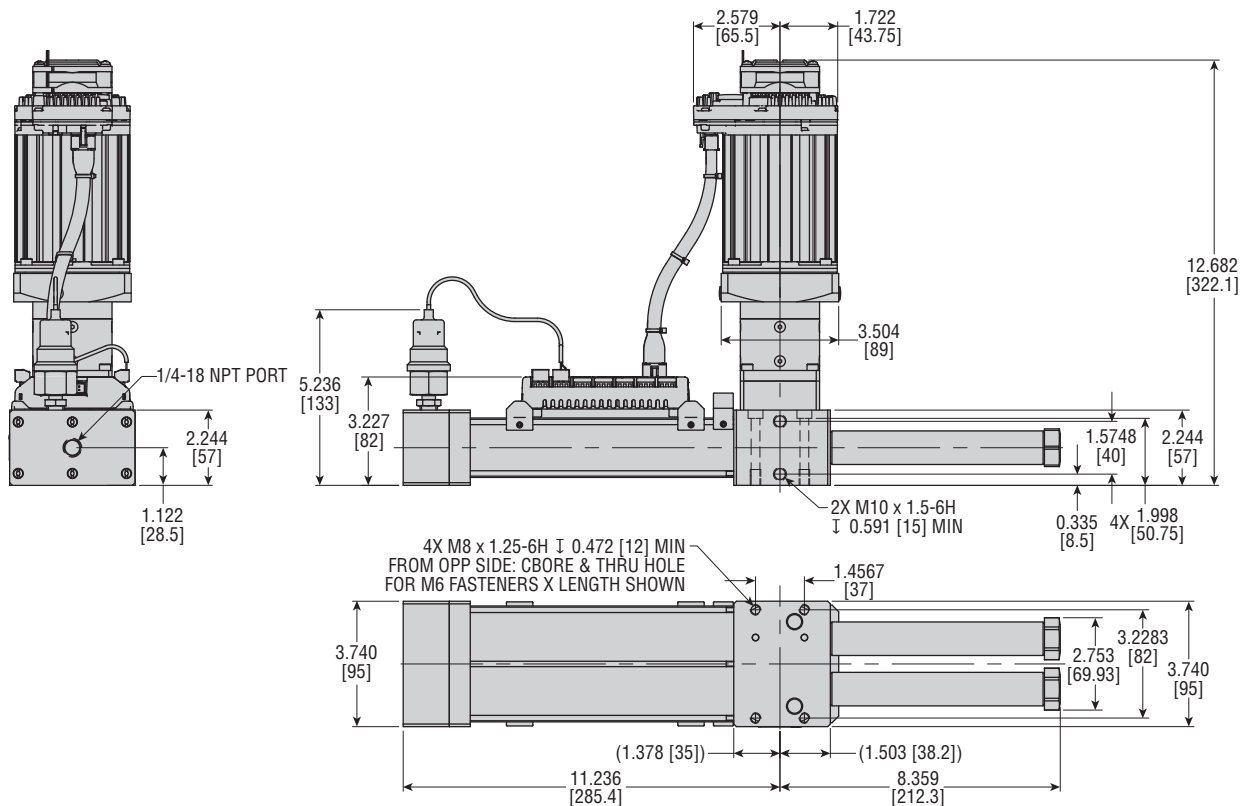
NOTES:

- 1) Supplied with pump
- 2) Supplied by customer
- 3) Maximum capability of power supply; typical power consumption during operation can be much lower depending on application

ERPP FLOW RATE VS. OUTPUT PRESSURE



DIMENSIONS



NOTES:

- 1) DESIGNATED $\varnothing$ IS CENTERLINE OF MOUNTING PATTERN
- 2) ALL DIMENSIONS ARE REFERENCE ONLY UNLESS SPECIFICALLY TOLERANCED