

IMPACT X 410

Electric-Powered Chemical Grout Pump

Equipment Overview

The **IMPACT X 410** is an electric-powered, airless piston pump configured for professional chemical grout injection and crack injection applications. Suitable for water-reactive polyurethanes and epoxies, the unit incorporates automatic pressure-actuated start/stop control and an integrated electronic pressure transducer for consistent injection control. A brushless electric motor supports quiet operation and durability, while the removable fluid section simplifies servicing and reduces downtime. Compact and ergonomically designed, the **IMPACT X 410** supports reliable performance in confined or elevated work areas.



Key Features

- **Variable Flow Output:** Supports adjustable material delivery based on viscosity, pressure setting, and hose configuration.
- **Easy Pressure Adjustment:** Allows controlled injection pressure adjustment during operation.
- **Precision Electronic Regulation:** Integrated electronic pressure transducer supports gradual pressure build-up and consistent injection control.
- **Removable Fluid Section:** Modular suction and fluid assembly simplifies servicing and reduces downtime.
- **Brushless Motor:** High-efficiency motor design provides quieter operation, improved durability, and consistent output.
- **Ergonomic & Lightweight Design:** Shortened body with adjustable handle improves maneuverability in confined or elevated work areas.

Specifications

Output	Up to 1.6 L/min (0.42 gal/min)
Maximum Pressure	Up to 2,200 psi (152 bar)
Power Requirements	120 V AC, 60 Hz, 9.0 A
Generator Requirements	Minimum 5000 W generator (idle-down feature disabled)
Maximum Hose Length	Up to 30 m (100 ft) of 1/4 in. hose
Dimensions (L x W x H)	65 cm x 35 cm x 52 cm (26" x 14" x 21")
Weight	18 kg (40 lbs)

Components & Optional Accessories

Standard Components:

- Electric pump with gravity-fed hopper intake, 10-litre hopper, and lid
- Injection Control Header (with two control valves and pressure gauge)
- Discharge Hose (1/4", 25' long)
- Whip Hose (1/8", 4' long)
- Hydraulic Coupler

Optional Accessories:

- Discharge Hose options (12.5', 25', 50')
- Injection Control Header configurations
- Double Hopper Assembly

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Applications

Applications include concrete crack injection, water cut-off, joint sealing, localized soil stabilization using chemical injection resins, and structural rehabilitation in commercial, industrial, and residential environments. The **IMPACT X 410** is suited to support polyurethane and epoxy injections for small- to medium-scale injection projects.

Limitations

- Water-reactive polyurethane should not be pumped after water unless the system is completely dry and free of residual moisture.
- Material viscosity will affect pressure output and flow rate; higher viscosity materials reduce injection performance.
- Not intended for pumping cementitious grouts.
- The pump must be routinely cleaned and properly maintained to prevent material buildup and ensure consistent operation.

Recommended Materials

Recommended for use with **Multiurethanes** polyurethane injection systems:

- **MME FLEXIBLE RESIN** (flexible hydrophobic polyurethane grout)
- **MME UNIVERSAL RESIN** (semi-rigid hydrophobic polyurethane grout)
- **MULTI-GEL** (flexible hydrophilic polyurethane grout)
- **RIGID GROUT** (dual-component hydrophobic polyurethane grout *requires a **two**-pump injection system*)
- **CRACK FLUSHING AGENT** (cleaning solution for concrete cracks and joints before injection)
- **PUMP CLEANER** (flushing solution for chemical grout pumps)

Safety & Use

This equipment is intended for professional use by trained personnel familiar with chemical injection equipment. Use appropriate personal protective equipment (PPE) suitable for chemical injection applications. Regularly inspect the pump and its components to ensure they are in good working order before use. Ensure the unit is connected to a properly grounded 120V electrical source in accordance with local electrical safety requirements. Refer to the equipment manual for detailed safety guidelines and operating instructions.

Related Equipment

For smaller, low-volume chemical injection applications, consider the **LEVER GUN**.
For higher-volume or heavy-duty chemical injection projects, consider the **PRESIDENT PUMP**.

Customer Service & Orders

For additional information, please contact us at 1-800-663-6633 or info@multiurethanes.com.