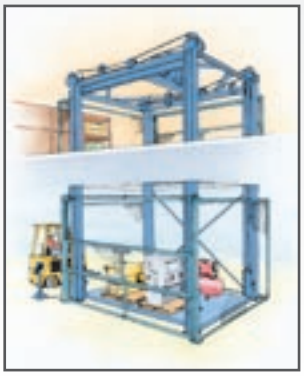
PFlow Industries, Inc.

SERIES F
MECHANICAL VERTICAL LIFTS

SERIES F LIFT OFFERS MAXIMUM CAPACITY AND RUGGED 4-POST DESIGN FOR THE HEAVIEST LIFTING APPLICATIONS.

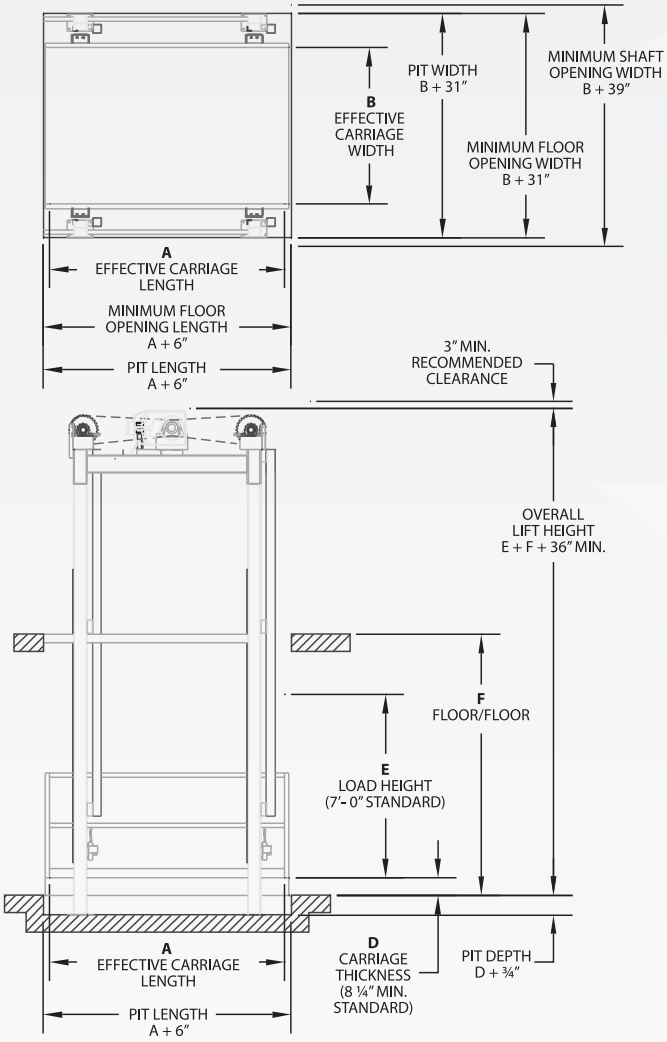
- Lifts heavy, bulky oversized loads up to 50,000 lbs.
- Transports multiple pallet loads, large carts and heavy machinery between two or more levels.
- Offers maximum flexibility in carriage size, capacity and traffic patterns. Loading and unloading from all four sides.
- Engineered to meet your exact application requirements. Unlimited vertical rise. Travel speeds up to 400 fpm.
- Carriage is lifted and lowered by heavy roller chain attached to a mechanical lifting mechanism.
- Heavy-duty construction provides superior strength, reliability and long-term performance.
- Built-in, advanced safety features protect workers and materials. Access gates at each level are interlocked with lift operation.
- Available with patented DeckLock Safety System that provides additional security at critical upper levels.
- Meets ANSI/ASME B20.1 code.



For immediate answers to your application questions, Call Pflow at 414-352-9000, or visit: www.pflow.com

SERIES F

DIMENSIONS & DATA



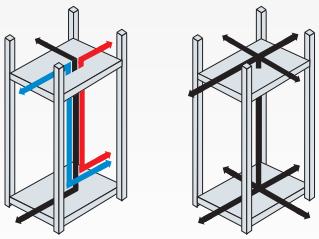
A. Effective Carriage Length
B. Effective Carriage Width
D. Carriage Thickness
E. Load Height
F. Vertical Rise

Note: The dimensions shown are illustrative. Request a job-specific drawing before making any building modifications.

SERIES F MECHANICAL LIFT LOADING/UNLOADING PATTERNS:

- C-Pattern
- Z-Pattern
- 90°-Pattern/Any Direction

Note: All Patterns Are Reversible.



SPECIFICATIONS

GENERAL
Pflow Series F Vertical Lifts move materials between two or more levels. Series F Lifts feature four-corner support for heavy-duty, vertical material handling jobs. Principal components are guide columns, carriage and a mechanical lifting mechanism.

APPLICATION DATA
Pflow Series F Vertical Lifts are available with: Lifting capacities to 50,000 lbs.; carriage sizes as required; vertical rise to 200'. Standard travel speed is 15-20 fpm. Speeds to 400 fpm available on special order.

STRUCTURE
Guide columns are 6" wide flange. Carriage is fabricated of 6" or 8" structural members with deck plate. Other surfaces available. Pflow Series F Vertical Lifts can be loaded/unloaded from all four sides.

OPERATION
Carriage is lifted and lowered by roller chain attached to an electric motor/reducer assembly mounted on the guide columns. Power units employ 7-1/2 HP to 25 HP TEFC brake motors (or custom sized per application). Special sensing and guidance systems monitor lift chains.

ELECTRICAL
Standard power requirements are 230V/460V, 3-phase. Control voltage is 110V. Control stations and remote mounted control panel are NEMA 12. Control stations, provided for each level, include self-maintaining push buttons with mushroom-head E-Stop button.

SAFETY FEATURES
Upward and downward travel of the carriage is limited by a limit switch. When switch is tripped or power is lost, the motor shuts off and the mechanically actuated brake is engaged. Overload protection is provided by a relay that measures the motor current. If the current exceeds the amount required to move the maximum load, it will shut the unit down and engage the brake. Safety cams, mounted on each guide column, prevent uncontrolled descent in case all four chains break. Chain sensors shut down unit if chain tension is lost. Chain tensioners and guides prevent chains from jumping on sprockets. NO RIDER signs are posted at each point of operation. Available with optional DeckLock Safety System.

CARRIAGE SIDE GUARDS
Carriage is equipped with safety rails on non-operating sides and safety chains or diagonal drop bars on operating ends. Optional expanded metal or sheet metal carriage side guards are available.

SAFETY ENCLOSURES
Safety codes (ANSI/ASME B20.1) require gates and enclosures on all sides of the lift. Enclosures must be a minimum of 8' high and reject a ball 2" in diameter. Pflow manufactures gates and enclosures with 1/2" expanded metal in a structural angle frame. Gates are accessible during loading/unloading and are electrically and mechanically interlocked with carriage movement. Interlocks prevent gates from being opened unless the carriage is at the designated level and also prevent carriage movement if any gates are not fully closed and locked.

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Pflow is a member of MHIA, CEMA, NAEC, and MHEDA.