**Flooded Suction** The liquid source is higher than the pump and flows to the pump by gravity. Flooded suction is preferred for centrifugal pump installations.

**Flow** The liquid volume capacity of a pump measured in gallons-per-minute (gpm) or gallons-per-hour (gph).

**Head** A measure of pressure expressed in feet. This indicates the height of a column of water being lifted by the pump (neglecting friction losses in the piping). To convert head to pressure in pounds-per-square-inch (psi), divide head by 2.31.

**Lift (Suction lift)** Occurs when the liquid source is lower than the pump. The pumping action creates a partial vacuum and atmospheric pressure forces liquid up to the pump. The theoretical limit of suction lift is 34 feet for water, but in practical applications it is 25 feet, or less, depending on the pump style and elevation above sea level.

**Pressure** The force exerted on the system (pipe, tank, etc.) by the liquid within, measured in pounds-per-square-inch (psi). To convert pressure to head, in feet, multiply by 2.31 then divide by Specific Gravity.

**Prime** The liquid required to begin pumping action.

**Seal** A device mounted in the pump housing and/or on the pump shaft to prevent liquid leakage from the pump.

**SEAL TYPES**
- **Lip** A flexible ring (usually rubber or similar material) with the inner edge held closely against the rotating shaft.
- **Mechanical** A two-part seal with one rotating part and one stationary. Touching surfaces on the parts are highly polished and provide excellent sealing capability and life. The surfaces can be damaged by dirt or grit in the liquid.

**Packaging** Rings of flexible material (foil, graphite or kevlar) held in the pump body gland or stuffing box by a packing nut. Permits adjustable sealing with minimal maintenance.

**Specific Gravity** The ratio of the weight of a given volume of liquid to the same volume of pure water (unless stated otherwise). Power requirements increase for liquids with specific gravities greater than 1.0.

**Sump** A well or pit that collects liquid below floor level. Sometimes refers to the waste sump or oil reservoir.

**Total Head** The sum of discharge head, suction lift and friction losses.

**Viscosity** The thickness of a liquid affecting its ability to flow. The more viscous the liquid, the slower the pump speed.

---

**DICTIONARY AND CONVERSION TABLE**

Here is a conversion guide you may want to keep handy.

**Conversion Factors**

**Flow**
- \( \text{Lbs of water/hr} \times 0.002 = \text{gal/min} \)
- \( \text{Gal/min} \times 500 = \text{Lbs of water/hr} \)
- \( \text{Lbs of fluid/hr} \times 0.002 = \text{gal/min} \)
- \( \text{Specific gravity} \times 0.002 = \text{gal/min} \)
- \( \text{Liters/min} \times 0.264 = \text{gpm} \)
- \( \text{Gpm} \times 3.785 = \text{Liters/min} \)
- \( \text{Cu meters/hr} \times 4.4 = \text{gpm} \)
- \( \text{Gal/min} \times 0.227 = \text{cu meters/hr} \)
- \( \text{Kg of water/min} \times 0.264 = \text{gpm} \)
- \( \text{Gal/min} \times 3.8 = \text{Kg of water/min} \)

**Pressure**
- \( \text{Ft of water} \times 0.433 = \text{psi} \)
- \( \text{Psi} \times 2.31 = \text{ft of water} \)
- \( \text{Inches Hg} \times 0.491 = \text{psi} \)
- \( \text{Inches Hg} \times 1.133 = \text{ft of water} \)
- \( \text{ATM} \times 14.7 = \text{mm Hg} \)
- \( \text{ATM} \times 33.9 = \text{ft of water} \)
- \( \text{Kg/sq cm} \times 14.22 = \text{psi} \)
- \( \text{Meters of water} \times 1.42 = \text{psi} \)
- \( \text{mm Hg} \times 0.394 = \text{inches Hg} \)
- \( \text{Bar} \times 14.5 = \text{psi} \)
- \( \text{Newton/meter}^2 \times 1 = \text{Pascal} \)
- \( \text{Psi} \times 6.9 = \text{kPa (Kilopascal)} \)
- \( \text{kPa} \times 0.145 = \text{Psi} \)

**Volume**
- \( \text{Lbs of water} \times 0.119 = \text{gal} \)
- \( \text{Gal (Brit)} \times 1.2 = \text{gal (US)} \)
- \( \text{Gal} \times 128 = \text{fluid ounces} \)
- \( \text{Cubic ft} \times 7.48 = \text{gal} \)
- \( \text{Cubic in} \times 0.00433 = \text{gal} \)
- \( \text{Gal} \times 3.785 = \text{liters} \)
- \( \text{Liters} \times 0.264 = \text{gal} \)
- \( \text{Cubic meters} \times 264.2 = \text{fluid ounces} \)
- \( \text{Cubic meters} \times 1,000 = \text{liters} \)
- \( \text{Liters} \times 1,000 = \text{cubic centimeters} \)
- \( \text{Cubic centimeters} \times 0.038 = \text{fluid ounces} \)
- \( \text{Fluid ounces} \times 29.57 = \text{cubic centimeters} \)

**Length**
- \( \text{Mils} \times 0.001 = \text{inches} \)
- \( \text{Meters} \times 3.281 = \text{feet} \)
- \( \text{Centimeters} \times 0.394 = \text{inches} \)
- \( \text{Millimeters} \times 0.0394 = \text{inches} \)
- \( \text{Microns} \times 0.0000394 = \text{inches} \)

**Mass**
- \( \text{Gal of water} \times 8.336 = \text{lbs} \)
- \( \text{Cubic foot of water} \times 62.4 = \text{lbs} \)
- \( \text{Ounces} \times 0.0625 = \text{lbs} \)
- \( \text{Kilograms} \times 2.2 = \text{lbs} \)
- \( \text{Lbs} \times 0.454 = \text{Kilo} \)
- \( \text{Metric ton} \times 2205 = \text{lbs} \)

**Metric prefixes**
- \( \text{Mega} = 1,000,000 \)
- \( \text{Kilo} = 1,000 \)
- \( \text{Hecto} = 100 \)
- \( \text{Deca} = 10 \)
- \( \text{Deci} = .1 \)
- \( \text{Centi} = .01 \)
- \( \text{Milli} = .001 \)
- \( \text{Micro} = .000001 \)
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OUR HISTORY
MP Pumps was organized in Detroit in 1942, shortly after America’s entry into World War II. Our first pumps were used in landing craft and other amphibious vehicles where quality and reliability were absolutely essential.

After the war, we continued to grow along with our reputation for superior design, engineering and manufacturing of centrifugal pumps for a wide variety of applications. In 1984, MP Pumps built and occupied a 100,000-square-foot facility in Fraser, Michigan. The facility houses all of our manufacturing and engineering operations as well as our administrative and marketing staffs.

Nearly 20,000 square feet of our Fraser headquarters is devoted to parts warehousing. We stock over 10,000 different parts to ensure prompt delivery of replacement parts to MP Pumps’ customers worldwide.

OUR FUTURE
MP Pumps remains committed to designing and developing innovative products to meet the fluid handling requirements of both current and emerging markets. To maintain our role as a leader in the design and manufacture of centrifugal pumps, we will continue to invest in the best equipment and people.

RESEARCH & DEVELOPMENT
A strong research and development program is fundamental to innovation. A highly trained and experienced research staff is backed by a fully equipped laboratory for conducting rigorous performance and endurance testing.

Development projects range from endurance testing of new seal materials to performance testing of custom housing geometries. Prototypes are frequently subjected to elevated

Exceeding customer expectations ... that’s what we’re all about at MP Pumps. Whether you use one of our many standard centrifugal pumps or have us design a new one to meet your specific requirements, our only goal is your complete satisfaction.

Greg Peabody, President

MP PUMPS
Committed To Excellence.

Greg Peabody, President
ambient conditions to simulate actual operating environments and gain more reliable data.

Laboratory facilities include dynamometers ranging from 3 to 125 horsepower, two test cells for measuring impeller radial and thrust loads and provision for testing self-priming pumps up to 25 feet of static lift.

ENGINEERING
Solid modeling design software for manufacturing techniques and fast prototype capability gives MP Pumps’ Engineering Department the ability to move rapidly from initial concept to first production.

MANUFACTURING
Speed, uniformity and consistent high quality translates into customer satisfaction.

Computer numerical control (CNC) machining centers on the factory floor are linked to a central server for rapid loading of machine programs. This direct interface speeds set-up, which, in turn, boosts productivity.

Automated machining also improves precision in milling, boring, facing, drilling and other critical operations. Greater accuracy and repeatability means consistent high quality — your next MP pump will perform as well as your last.

QUALITY CONTROL
At MP Pumps, quality is designed into every component and every pump we build. From concept, through development and on into production, our focus is to provide durable and reliable products that satisfy every customer requirement.

- American Bureau of Shipping (ABS) Certification for select models.
- ISO 9001 certification assures our customers that all products are manufactured with an uncompromised commitment to quality, and that’s something every employee at MP Pumps, Inc. takes personally.

Our application design expertise encompasses a broad range of markets, among them:

- Industrial
- Transportation
- Agriculture
- Marine

Similarly, our engineers are accustomed to working with a wide range of materials. Commonly used materials include bronze, ductile iron, aluminum, cast iron and stainless steel.
SELF PRIMING CENTRIFUGAL PUMP FEATURES

- CLOSED COUPLED TO ELECTRIC MOTOR
- PUMPAK ONLY TO MOUNT TO STANDARD NEMA “C” FACE MOTOR
- FLOWS - 100-750 GPM
- PRESSURES - 100-230 FEET HEAD
- AVAILABLE IN: CAST IRON AND BRONZE
  FLOMAX 5 AND FLOMAX 8 ALSO AVAILABLE IN ALUMINUM
  FLOMAX 8 AND FLOMAX 15 ALSO AVAILABLE IN STAINLESS STEEL
- WITH OR WITHOUT ELECTRIC MOTOR
- IMPELLER - CAST IRON, BRONZE, ALUMINUM & STAINLESS STEEL
  FLOMAX 40 CAST IRON, BRONZE & STAINLESS STEEL
  FLOMAX 30 DUCTILE IRON & BRONZE
- SHAFT SLEEVE - STAINLESS STEEL
- FASTENERS - STAINLESS STEEL
- SEALS - STANDARD VITON, OPTIONAL SEALS AVAILABLE
  PRESSURE LUBRICATED DOUBLE SEALS
- OPTIONS:
  - ENGINE DRIVES
  - PEDESTAL MODELS
  - HYDRAULIC DRIVES AND CLUTCHPAKS
- ABS TYPE APPROVAL FOR MANY SHIPBOARD SERVICES

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<thead>
<tr>
<th>MODEL</th>
<th>Suction</th>
<th>Discharge</th>
<th>Max. Solid Size</th>
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<tr>
<td>FLOMAX 5</td>
<td>1 1/2&quot; NPT</td>
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</table>
Self-Priming Centrifugal Pump Selection

TOTAL HEAD - FEET

GALLONS PER MINUTE
Flomax 8 Pump Performance Curves

Other Performance Curves Available Upon Request
**FLOMAX 5 & 8 Pump Double Seal Performance Curves**

- **Model FLOMAX 8 D.S.**
- **Size:** 2 x 2
- **Impeller Dia.:** 4.84
- **Max. Solids:** .62

![Graph showing performance curves for FLOMAX 5 & 8 pumps.](image-url)
Flomax 10 Pump Performance Curves

Other Performance Curves Available Upon Request
Flomax 15 Pump Double Seal Performance Curves

MODEL FLOMAX 15 D.S.
SIZE 3 X 3
IMPELLER 5.94 DIA.

TOTAL HEAD - FEET
GALLONS PER MINUTE

3500 RPM
34% 40
125
2850
125
20
15
10
49% 49%
45
10 HP
7.5
NPSHR
30
20
10

1750 RPM
34%
5
2 HP
NPSHR

MODEL FLOMAX 15 D.S.
SIZE 3 X 3
SPEED 3500 RPM

TOTAL HEAD - FEET
GALLONS PER MINUTE

5.94 DIA.
5.50
40% 45
125
25
20
15
10
49% 49%
45
10 HP
7.5
NPSHR
30
20
10

Other Performance Curves Available Upon Request
Flomax 40 Pump Performance Curves

Other Performance Curves Available Upon Request
Flomax 10 Dimensions

Flomax 15 Dimensions
ECONOMICAL SELF-PRIMING PUMP FEATURES

- All Cast Iron Construction
- Chemical Duty Carbon/Ceramic/Viton Seal
- 303SS Drive Sleeve
- Close-Coupled C-Face Motor, Engines or Bearing Pedestal
- Back Pull-Out Design for Easy Maintenance
- Pump and Motor Complete in a Compact, Lightweight Package
- In Stock for Immediate Shipment

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<th>MODEL</th>
<th>Suction</th>
<th>Discharge</th>
<th>Max. Solid Size</th>
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<td>EMAX 8</td>
<td>2&quot; NPT</td>
<td>2&quot; NPT</td>
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</table>

**EMAX 8**

**EMAX Dimensions**
EMAX Pump Performance Curves

TOTAL HEAD - FEET

GALLONS PER MINUTE

EMAX Dimensions

PUMPAK FOR ELECTRIC MOTOR

Ø4.50 PILOT

45°

2.25

4.50

Ø.625 OR Ø75 SLEEVE

(4) Ø.44 HOLES THRU AS SHOWN ON A Ø 5.875 B.C.

PUMPAK FOR ENGINE

R2.75

45°

3.25

3.50

Ø.750 SLEEVE

(4) Ø.38 HOLES THRU AS SHOWN ON A Ø 3.625 B.C.

Other Performance Curves Available Upon Request
**END SUCTION CENTRIFUGAL PUMP FEATURES**

- SERIES 30, 60, 80, 110, 120, 130, 200, 300 & 700 CLOSED COUPLED TO ELECTRIC MOTOR
- SERIES 300 PEDESTAL PUMP, OR FOOT MOUNTED FOR BELT OR DIRECT DRIVE
- SERIES 700 PEDESTAL PUMP FOR BELT OR DIRECT DRIVE

- PUMPAK ONLY TO MOUNT TO STANDARD NEMA “C” FACE MOTOR .3-40 HP

- NEMA JP PUMP MOTOR UP TO 25HP
- FLOWS - 40-800 GPM
- PRESSURES - 40-190 FEET HEAD

**AVAILABLE IN:**
- SERIES 30 CAST IRON, BRONZE CONSTRUCTION
- SERIES 60 CAST IRON
- SERIES 80, 110, 120, 130 & 200 CAST IRON & BRONZE
- SERIES 300 CAST IRON AND CAST IRON STAINLESS STEEL FITTED
- SERIES 700 DUCTILE IRON CONSTRUCTION

- VERTICAL OR HORIZONTAL DISCHARGE

- IMPPELLER:
  - SERIES 30 AVAILABLE IN CAST IRON, BRONZE
  - SERIES 60, 110, 130 AND 200 AVAILABLE IN CAST IRON & BRONZE
  - SERIES 80 & 120 AVAILABLE IN BRONZE (CAST IRON OPTIONAL)
  - SERIES 300 & 700 AVAILABLE IN DUCTILE IRON-ENCLOSED

- SHAFT SLEEVE:
  - SERIES 30, 60, 80, 110, 130 & 200 STAINLESS STEEL
  - SERIES 300 STEEL
  - SERIES 700 STEEL OR STAINLESS STEEL

- FASTENERS - STAINLESS STEEL
- SEALS - STANDARD VITON, OPTIONAL SEALS AVAILABLE (CONSULT FACTORY)

- OPTIONS:
  - ENGINE DRIVES
  - PEDESTAL MODELS
  - HYDRAULIC DRIVES
  - CLUTCHPAKS
  - MOTOR DRIVES
SERIES 120

SERIES 130

SERIES 200

SERIES 300

SERIES 700

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<td>SERIES 300</td>
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<td>SERIES 700</td>
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Series 80 Pump Performance Curves

Series 110 Pump Performance Curves

Other Performance Curves Available Upon Request
Series 200 Style A Pump Performance Curves

- **Model**: Series 200
- **Size**: 2.5 x 2
- **Speed**: 3450 RPM
- **Impeller Style**: A

Series 200 Style C Pump Performance Curves

- **Model**: Series 200
- **Size**: 2.5 x 2
- **Speed**: 3450 RPM
- **Impeller Style**: C

Other Performance Curves Available Upon Request
Series 30 Dimensions

*FOR MOTOR SPECS AND DIMENSIONS CONSULT FACTORY

Series 60 Dimensions

*FOR MOTOR SPECS AND DIMENSIONS CONSULT FACTORY

Series 80 Dimensions

*FOR MOTOR SPECS AND DIMENSIONS CONSULT FACTORY

*FOR MOTOR SPECS AND DIMENSIONS CONSULT FACTORY

*FOR MOTOR SPECS AND DIMENSIONS CONSULT FACTORY
Series 200 Dimensions

Series 300 Dimensions

Series 700 Dimensions
END SUCTION CENTRIFUGAL PUMP FEATURES

- CHEMFLO 1, 2, 3 & 4 - INVESTMENT-CAST, 316 STAINLESS
- CHEMFLO 5, 6, 7, 8 & 9 - CF8M STAINLESS STEEL HOUSING, SEAL HOUSING & IMPELLER

- PRESSURES - 105-460 FEET HEAD

- FLOWS - 100-450 GPM

- CHEMFLO 1, 2, 3, 4 PUMPAKS FOR 56C AND 145TC ELECTRIC MOTORS
- CHEMFLO 5, 6, 7, 8, AND 9 PUMPAKS FOR ELECTRIC MOTOR FRAME SIZE 145TC THROUGH 286TCS

- HORSEPOWER - 1-40 HP

- OPTIONAL ELASTOMERS AVAILABLE

- HYDRAULIC MOTOR DRIVE AVAILABLE

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<td>CHEMFLO 5</td>
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<td>CHEMFLO 6</td>
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<td>CHEMFLO 7</td>
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<td>CHEMFLO 9</td>
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CHEMFLO Selection

GALLONS PER MINUTE

TOTAL HEAD - FEET
CHEMFLO 3 Pump Performance Curves

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<th>TOTAL HEAD - FEET</th>
<th>0</th>
<th>20</th>
<th>40</th>
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<th>120</th>
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<td>GALLONS PER MINUTE</td>
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<td>40</td>
<td>60</td>
<td>80</td>
<td>100</td>
<td>120</td>
<td>140</td>
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Model: CHEMFLO 3
Size: 2 x 1.5
Speed: 3500 RPM

CHEMFLO 4 Pump Performance Curves

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<th>TOTAL HEAD - FEET</th>
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<th>40</th>
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<th>100</th>
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<td>GALLONS PER MINUTE</td>
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<td>20</td>
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<td>60</td>
<td>80</td>
<td>100</td>
<td>120</td>
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Model: CHEMFLO 4
Size: 2 x 1.5
Speed: 3500 RPM

Other Performance Curves Available Upon Request
CHEMFLO 7 Pump Performance Curves

Other Performance Curves Available Upon Request

CHEMFLO 8 Pump Performance Curves
CHEMFLO 9 Pump Performance Curves

MODEL CHEMFLO 9
SIZE 2 X 1
SPEED 3500 RPM

TOTAL HEAD - FEET

GALLONS PER MINUTE

CUBIC METERS PER HOUR

TOTAL HEAD - METERS
**CHEMFLO 8 Dimensions**

- 1.62 DIA. holes, 45°
- 5.00 DIA.
- (4) .75 DIA. holes, thru, equal spaced as shown on a 3.875 dia. B.C.

**CHEMFLO 9 Dimensions**

- 3.00 DIA.
- 45°
- 5.00 DIA.
- 1/8 NPT drain
- (4) .75 DIA. holes, thru, equal spaced as shown on a 6.000 dia. B.C.
HIGH HEAD CENTRIFUGAL PUMP FEATURES

- 1 1/2 x 1 1/2
  2 X 2 HIGH HEAD

- PUMPAK ONLY TO MOUNT TO STANDARD NEMA “C” FACE MOTOR

- “C” FACE ELECTRIC MOTOR DRIVE 5-7.5 HP

- PEDESTAL DRIVE

- HYDRAULIC DRIVE AND CLUTCHPAK’S

- FLOWS - TO 140 GPM

- PRESSURES - TO 190 TDH

- CAST IRON OR BRONZE CONSTRUCTION

- DRIVE SLEEVE - 304 STAINLESS STEEL

- FASTENERS - STAINLESS STEEL

- SEALS - STANDARD CARBON, CERAMIC, STAINLESS STEEL AND VITON WITH OTHER OPTIONS AVAILABLE (CONSULT FACTORY)

- ABS TYPE APPROVED FOR MANY SHIPBOARD SERVICES

### Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Suction</th>
<th>Discharge</th>
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</thead>
<tbody>
<tr>
<td>HHLF</td>
<td>1 1/2”-2” NPT</td>
<td>1 1/2”-2” NPT</td>
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</table>

- 1/4” NPT DRAIN PLUG
- 1” NPT FILL PLUG
- 1” NPT.
- (2.0” NPT)

MP PUMPS, INC.  PHONE: (800) 563-8006  FAX: (586) 293-8469  www.mppumps.com
Other Performance Curves Available Upon Request
FRX Series

FRACTIONAL HP CENTRIFUGAL PUMP FEATURES

- CLOSE COUPLED TO ELECTRIC MOTORS
- 316 SS CONSTRUCTION
  FRX 50-R POLYPHENYLENE HOUSING AND COVER
- FLOWS: 8-50 GPM
- PRESSURES: 9 TO 85 FEET HEAD
- IMPELLER: 316 STAINLESS STEEL
- FRX 75-SP: SUCTION LIFT TO 12 FEET
- MECHANICAL SEALS: CARBON/CERAMIC/VITON
- MOTOR OPTIONS: AC AND DC
  FRX 125 AC ONLY

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Suction</th>
<th>Discharge</th>
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<tbody>
<tr>
<td>FRX 50</td>
<td>1/2” NPT/1” HOSE</td>
<td>1/2” NPT/1” HOSE</td>
</tr>
<tr>
<td>FRX 50-R</td>
<td>1” HOSE</td>
<td>1” HOSE</td>
</tr>
<tr>
<td>FRX 75</td>
<td>3/4” NPT</td>
<td>3/4” NPT</td>
</tr>
<tr>
<td>FRX 75-SP</td>
<td>3/4” NPT</td>
<td>3/4” NPT</td>
</tr>
<tr>
<td>FRX 100</td>
<td>1” NPT</td>
<td>1” NPT</td>
</tr>
<tr>
<td>FRX 125</td>
<td>1 1/4” NPT</td>
<td>1” NPT</td>
</tr>
</tbody>
</table>

MP PUMPS, INC. PHONE: (800) 563-8006 FAX: (586) 293-8469 www.mppumps.com
FRX 50 & FRX 50-R Performance Curves

12V DC MOTOR
FOR 24 V DC MOTOR
DIVIDE AMPS BY TWO

115V AC MOTOR

GALLONS PER MINUTE

TOTAL HEAD - FEET

AMPS

TOTAL HEAD - FEET

GALLONS PER MINUTE

AMPS
FRX 75 12 or 24V Performance Curves

12VDC MOTOR
FOR 24VDC AMPS DIVIDE 12V AMPS BY TWO

FRX 75 115V Performance Curves

AC MOTOR
FRX 75-SP Performance Curves

- 115 VAC
- 12 VDC

FRX 100 Performance Curves

- 3.75" DIA.
- 3.25" DIA.

FRX 50 & FRX 50-R Dimensions

FRX 125 Performance Curves

CUBIC METERS PER HOUR

GALLONS PER MINUTE

MODEL FRX 125 & H. FLOW
SIZE 1.25 X 1.0
SPEED 3500 RPM

FRX 50 & FRX 50-R Dimensions
**FRX 75 12 or 24V Dimensions**

1. 18.0" LONG 14 GA WIRE LEADS
2. 20 AMP IN-LINE FUSE LOCATED ON RED (POSITIVE) WIRE

**FRX 75 115V Dimensions**

36 FRAME PSC MOTOR
115 VAC, 60 Hz
1/6 HP, 3500 RPM, 2.0 FLA
CONTINUOUS DUTY
AUTOMATIC THERMAL OVERLOAD
OPEN DRIP PROOF
UL/CSA RECOGNIZED
FRX 75-SP 12V or 24V Dimensions

FRX 75-SP 115V Dimensions

1/6 HP, 1 PHASE
115 VAC, 60 Hz.
ODP, 3450 RPM
Customer Support Worldwide

IT’S SIMPLE TO CONTACT MP PUMPS FOR INFORMATION

MP Pumps Operates In A Global Marketplace.
We are keenly aware of the need to provide prompt delivery of our products to customers worldwide and have in place an international network of distributors to meet this need.

“It is the policy of MP Pumps to satisfy customers by consistently supplying them with products that fully meet their requirements. Customer Satisfaction Today, Tomorrow, Always.”
— Mission Statement

Our computerized inventory control system tracks the more than 10,000 parts we stock in our 20,000-square-foot parts warehouse. We also maintain E-mail capability and a site on the worldwide web to speed communication between us, our distributor network and our customers.

800-563-8006
(Outside the U.S., 586-293-8240)
FAX: 586-293-8469
www.mppumps.com
MP PUMPS, INC. LIMITED WARRANTY
FOR NEW PUMPS MANUFACTURED BY MP PUMPS

A. PRODUCTS WARRANTED

MP PUMPS, Inc., a Michigan Company ("MP PUMPS") subject to the limitations contained below, will, at its option, repair or replace, without charge for parts or labor only, any part of a new pump manufactured by MP PUMPS (an "MP Pump") which is found, upon examination by MP PUMPS' factory in Fraser, Michigan, to be DEFECTIVE IN MATERIAL AND/OR WORKMANSHIP if received by such factory for such examination within twelve months from the date of sale to the original consumer purchaser.

B. PRODUCTS AND ITEMS NOT WARRANTED

1. Alterations or Modifications of MP Pump
   All obligations under this warranty shall be terminated if the new MP Pump is altered or modified in any way.


3. Any MP Pump which is not completely and properly decontaminated prior to return to MP PUMPS.

4. Any MP Pump returned without an identification of the material pumped by your MP Pump on the "Return Goods Authorization Form."

This warranty covers only parts of a new MP Pump which are found upon examination to be defective in material or workmanship as delivered to the original consumer purchaser. This warranty does not cover defects caused by depreciation or damage caused by normal wear, accidents, improper maintenance, improper use or abuse of the product, failure to follow the instructions contained in an Instruction Bulletin for the operation of the pump and parts. The cost of normal maintenance and replacement of service items which are not defective, shall be paid for by the original consumer purchaser. This warranty is VOID if an MP Pump is not decontaminated prior to return to MP PUMPS or if the material pumped is not identified as provided below.

C. SECURING WARRANTY SERVICE

Warranty service can be arranged by contacting MP PUMPS, Inc., c/o Service Manager, 34800 Bennett Drive, Fraser, Michigan 48026. Warranty service can only be performed by MP PUMPS at its factory in Fraser, Michigan. At the time of requesting warranty service, evidence must be presented of the date of sale to the original consumer purchaser. MP PUMPS, at its option, will supply you with a "Return Goods Authorization Form" ("RGA") or will prepare an RGA on your behalf and provide you with an RGA reference number. The product pumped must be identified on the RGA. All parts returned to MP PUMPS for any reason must be completely and properly decontaminated prior to delivery to MP PUMPS. If the product pumped requires a Material Safety Data Sheet ("MSDS"), reference to this fact must be indicated under "Application Information" on the RGA form which must be returned with the part(s) or if an RGA was completed on your behalf you must provide your RGA reference number. The product pumped must be identified on the RGA. A copy of the MSDS must also be included with the returned RGA forms or with your RGA reference number. New or unused parts need not be decontaminated. This fact must be indicated under "Application Information" on the RGA form which must be returned with the part(s). The original consumer purchaser shall pay any charges for making service calls and/or for transporting the product to and from the place where the inspection and/or warranty work is performed. The part submitted for inspection and/or warranty work will be returned to the sender at the sender's expense or scrapped at MP PUMPS. No credits will be issued. The original consumer purchaser shall be responsible for any damage or loss incurred in connection with the transportation of the MP Pump and/or of part or parts of the MP Pump submitted for inspection and/or warranty work.

D. NO ADDITIONAL WARRANTIES OR REPRESENTATIONS

The foregoing EXPRESS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES. Neither MP PUMPS nor any of its affiliates make any warranties, representations or promises, written or verbal, as to the quality of the MP Pump or its parts other than those set forth herein.

ANY IMPLIED WARRANTIES (INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) TO THE EXTENT EITHER APPLIES TO A PART OF AN MP PUMP SHALL BE LIMITED IN DURATION TO THE PERIODS OF THE EXPRESS WARRANTIES AS DEFINED IN PARAGRAPH A. Some States do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

E. LIMITATION OF DAMAGES

IN NO EVENT WILL MP PUMPS BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES AND/OR EXPENSES. Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may have other legal rights which vary from State to State.

F. NO DISTRIBUTOR/DEALER WARRANTY

MP PUMPS neither assumes nor authorizes any other person, natural or corporate, to assume for MP PUMPS any other obligations or liabilities in connection with or with respect to any part or parts of an MP Pump. The seller, dealer or distributor of a part or parts of an MP Pump has no authority to make any representations or promises on behalf of MP PUMPS or to modify the terms or limitations of this warranty in any way. The seller, dealer or distributor makes no warranty of his own on any item warranted by MP PUMPS and makes no warranty on other items, unless such seller or dealer delivers to the purchaser a separate written warranty document in which the seller or the dealer individually and specifically on its own behalf, warrants the terms of items.