

ITT

BRJMCB

Residential Water Systems

Red Jacket Water Products

MCB

Multi-Stage High Pressure Cast Iron
Centrifugal Booster Pump
MCB7, MCB10, MCB18,
MCB25, MCB33



FEATURES

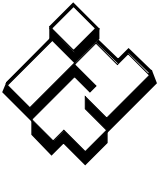
- Multi-stage design provides steady, quiet, vibration free operation.
- Cast iron construction for general service applications.
- O-ring casing seal provides reliable high pressure sealing and easy disassembly for maintenance or repair.
- Impellers and diffusers are glass-filled engineered composite material with high resistance to corrosion and abrasion.
- Bowls are 300 stainless steel for positive alignment with no gaskets required.
- Centrifugal pump design permits a wide flow range for each size.
- Carbon, ceramic and BUNA mechanical seals.
- Motors are designed for continuous operation.
- Suction and discharge pipe connections are 1" NPT.
- Maximum suction (inlet) pressure is 75 PSI.
- Maximum liquid temperature is 160° F (71° C).
- Rotation is clockwise when viewed from motor end.
- Maximum lift with foot valve is 10 ft. (check NPSH curve).
- NEMA standard 56J frame, open drip proof, 60 Hz, 3500 RPM, single phase motors.
- Single phase motors have built-in capacitor and overload with automatic reset.



Red Jacket Water Products is a brand of
ITT Corporation.

www.redjacketwaterproducts.com

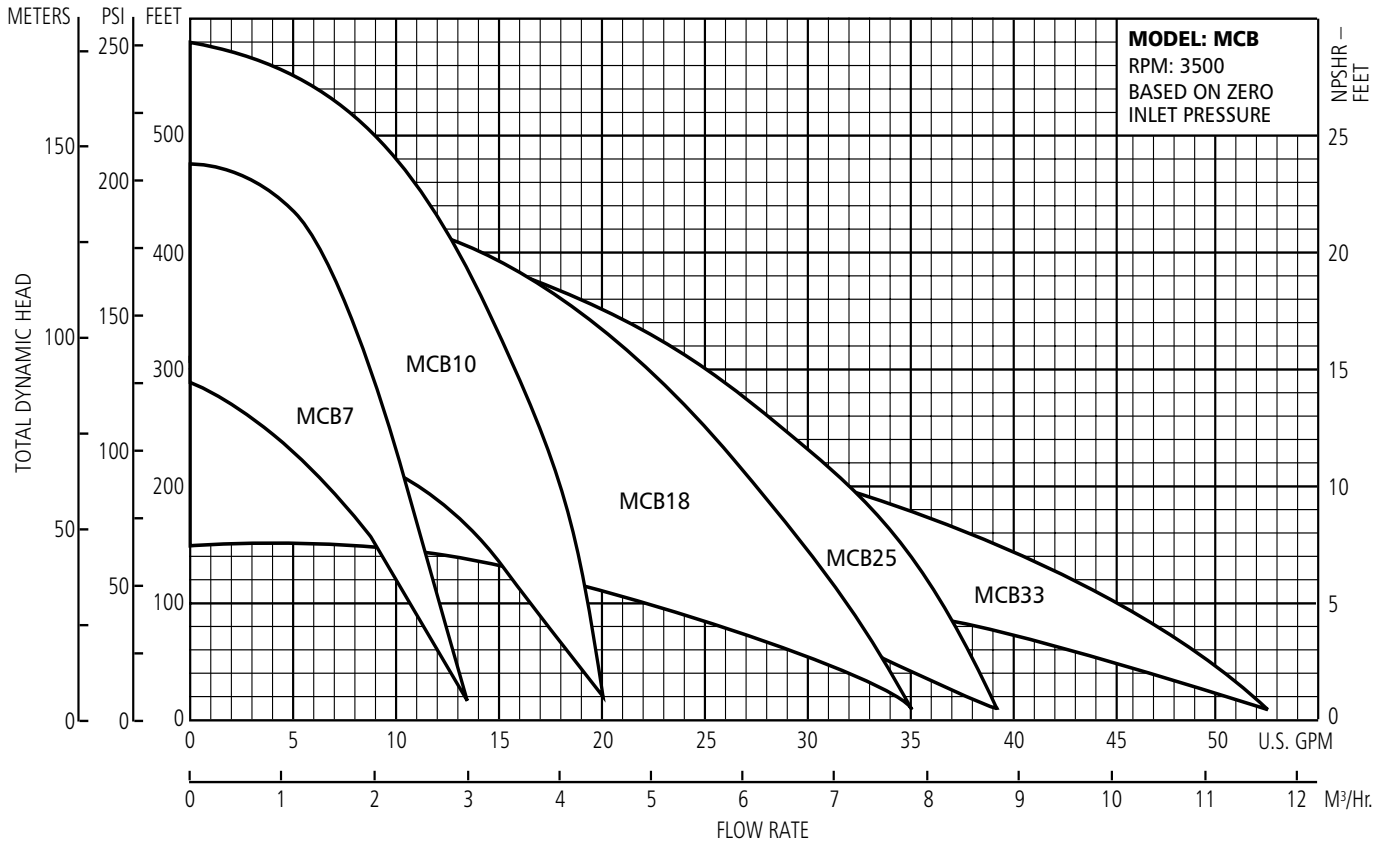
Engineered for life



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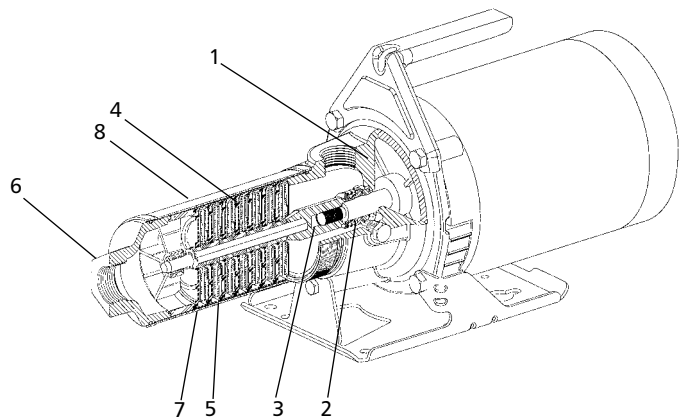
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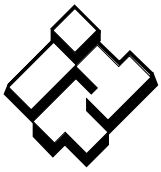
PERFORMANCE COVERAGE 60 HZ, 3500 RPM



MATERIALS OF CONSTRUCTION

| Item | Description | Material |
|------|-------------------|----------------------|
| 1 | Motor Adaper | Cast Iron |
| 2 | Mechanical Seal | Carbon/Ceramic/BUNA |
| 3 | Shaft Coupling | StainlessSteel |
| 4 | Impeller/Diffuser | Engineered Composite |
| 5 | Bowl | 304 Stainless Steel |
| 6 | Discharge Head | Cast Iron |
| 7 | Hex Shaft | Stainless Steel |
| 8 | Casing | 304 Stainless Steel |





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MCB NUMBERING SYSTEM

The various versions of the MCB Series are identified by a product code number on the pump label. This number is also the catalog number for the pump. The meaning of each digit in the product code number is shown below. The following are the standard product numbers and are built with Single Phase ODP motors and standard staging and seals.

| Order No. | HP | Phase | Voltage | Enclosure | Stages |
|-----------|-------|-------|---------|-----------|--------|
| 50MCB7 | 1/2 | 1 | 115-230 | ODP | 9 |
| 75MCB7 | 3/4 | | | | 13 |
| 100MCB7 | 1 | | | | 16 |
| 75MCB10 | 3/4 | 1 | 115-230 | ODP | 8 |
| 100MCB10 | 1 | | | | 10 |
| 150MCB10 | 1 1/2 | | | | 15 |
| 200MCB10 | 2 | | | | 17 |
| 75MCB18 | 3/4 | 1 | 115/230 | ODP | 5 |
| 100MCB18 | 1 | | | | 7 |
| 150MCB18 | 1 1/2 | | | | 9 |
| 200MCB18 | 2 | | | | 13 |
| 300MCB18 | 3 | | | | 15 |
| | | | 230 | | |

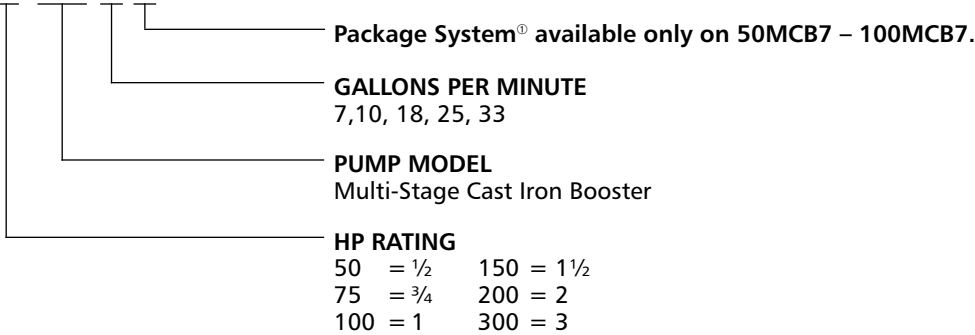
| Order No. | HP | Phase | Voltage | Enclosure | Stages |
|-----------|-------|-------|---------|-----------|--------|
| 75MCB25 | 3/4 | 1 | 115/230 | ODP | 5 |
| 100MCB25 | 1 | | | | 7 |
| 150MCB25 | 1 1/2 | | | | 9 |
| 200MCB25 | 2 | | | | 10 |
| 300MCB25 | 3 | | | | 14 |
| 100MCB33 | 1 | 1 | 115/230 | ODP | 5 |
| 150MCB33 | 1 1/2 | | | | 7 |
| 200MCB33 | 2 | | | | 9 |
| 300MCB33 | 3 | | | | 13 |
| | | | 230 | | |

MCB NUMBERING SYSTEM

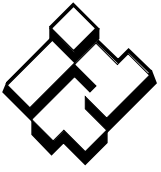
For optional motor enclosures, seals and three phase configurations use the following product code system.

Example Code

50 MCB 7 P



① A 50MCB7P, 75MCB7P or 100MCB7P also includes: 4' long suction hose, two 1" x 3/4" hose adapters, a 10' power cord with GFI molded plug and a carry handle.



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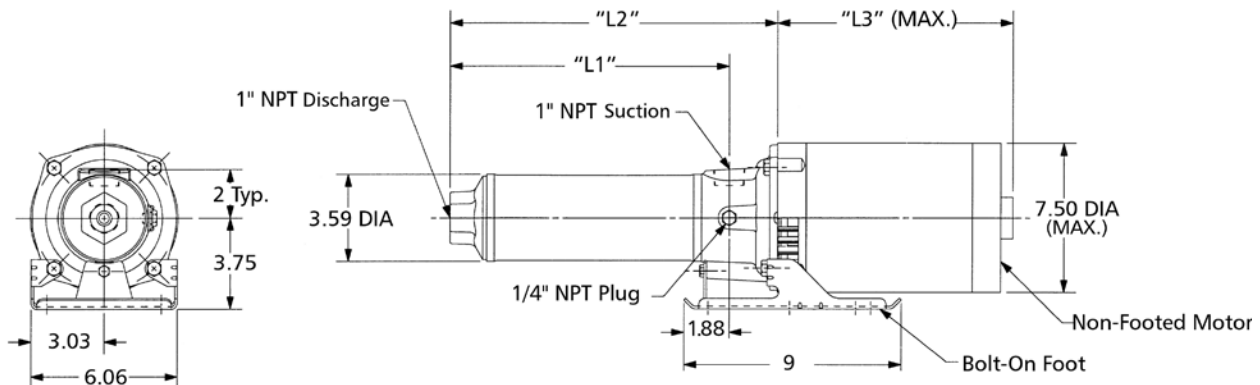
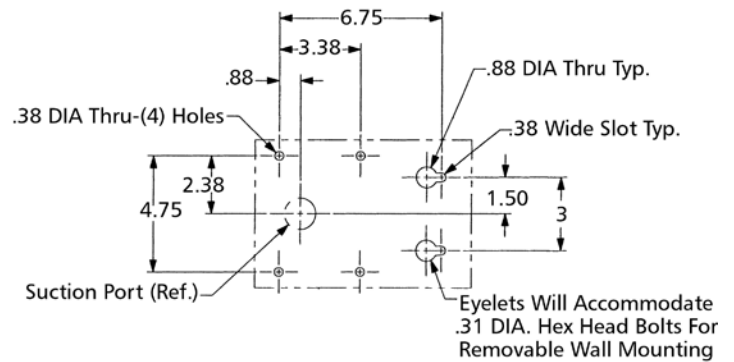
DIMENSIONS AND WEIGHTS

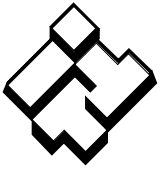
| Model | Stages | L1 Approx. | L2 Approx. | HP | L3 Max. | Max. Wt. lbs. |
|----------|--------|---------------|---------------|-------|------------|------------------|
| 50MCB7 | 9 | 11.88 | 13.88 | 1/2 | 10.5 | 41 |
| 75MCB7 | 13 | 14.44 | 16.44 | 3/4 | 10.62 | 46 |
| 100MCB7 | 16 | 16.88 | 18.88 | 1 | 11.25 | 50 |
| 75MCB10 | 8 | 10.94 | 12.94 | 3/4 | 10.62 | 46 |
| 100MCB10 | 10 | 12.31 | 14.31 | 1 | 11.25 | 50 |
| 150MCB10 | 15 | 15.81 | 17.81 | 1 1/2 | 11.31 | 47 |
| 200MCB10 | 17 | 17.19 | 19.19 | 2 | 12.06 | 67 |
| 75MCB18 | 5 | 9.69 | 11.69 | 3/4 | 10.62 | 46 |
| 100MCB18 | 7 | 11.38 | 13.38 | 1 | 11.25 | 50 |
| 150MCB18 | 9 | 13.12 | 15.12 | 1 1/2 | 11.31 | 47 |
| 200MCB18 | 13 | 16.50 | 18.50 | 2 | 12.06 | 67 |
| 300MCB18 | 15 | 18.25 | 20.25 | 3 | 13.03 | 69 |
| 75MCB25 | 5 | 10.12 | 12.12 | 3/4 | 10.62 | 46 |
| 100MCB25 | 7 | 12.00 | 14.00 | 1 | 11.25 | 50 |
| 150MCB25 | 9 | 13.88 | 15.88 | 1 1/2 | 11.31 | 47 |
| 200MCB25 | 10 | 14.81 | 16.81 | 2 | 13.03 | 67 |
| 300MCB25 | 14 | 18.56 | 20.56 | 3 | 13.03 | 69 |
| 100MCB33 | 5 | 11.77 | 13.77 | 1 | 11.25 | 51 |
| 150MCB33 | 7 | 14.25 | 16.25 | 1 1/2 | 11.31 | 55 |
| 200MCB33 | 9 | 16.66 | 18.66 | 2 | 13.03 | 69 |
| 300MCB33 | 13 | 21.47 | 23.47 | 3 | 13.03 | 70 |

Warnings:

- Pumps used on open spray applications must be plugged into electrical service which is protected by a Ground Fault Service Interruptor. Failure to do so may result in serious personal injury or death and property damage.
- Do not run pump dry.
- Do not run pump below minimum flow.
- If positive suction pressure is not available, be sure pump and suction line (with foot valve) are primed before starting pump.

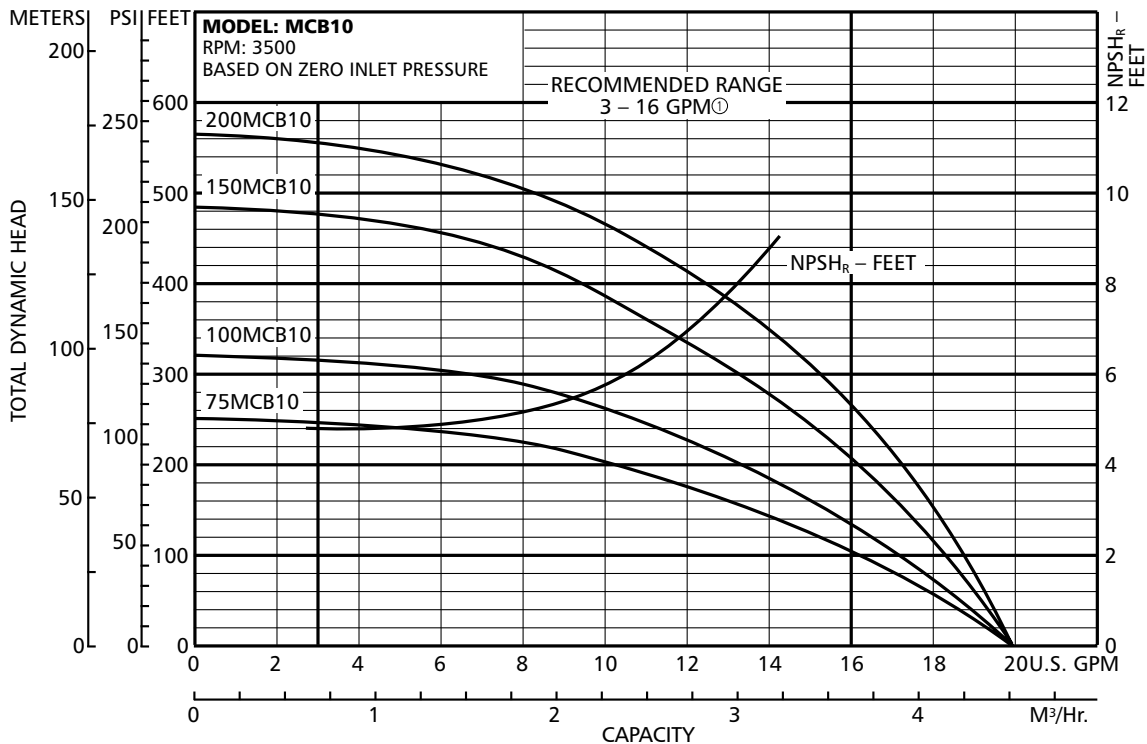
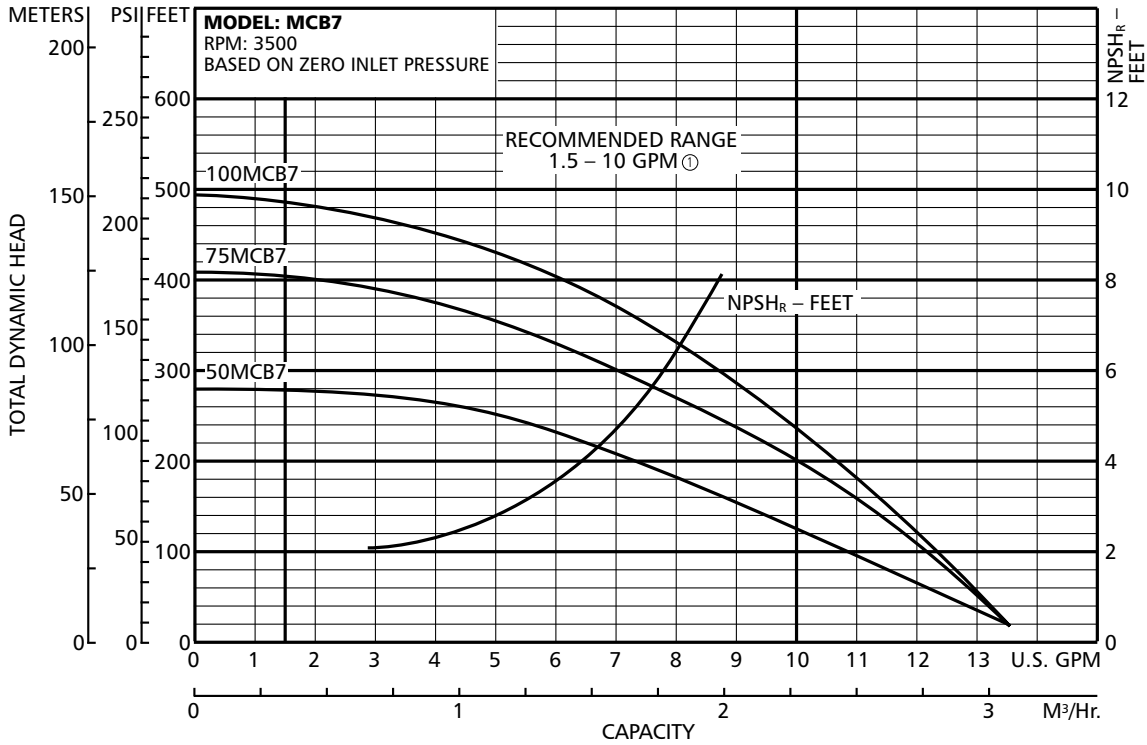
Outline of Bolt-On Foot



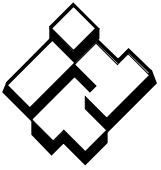


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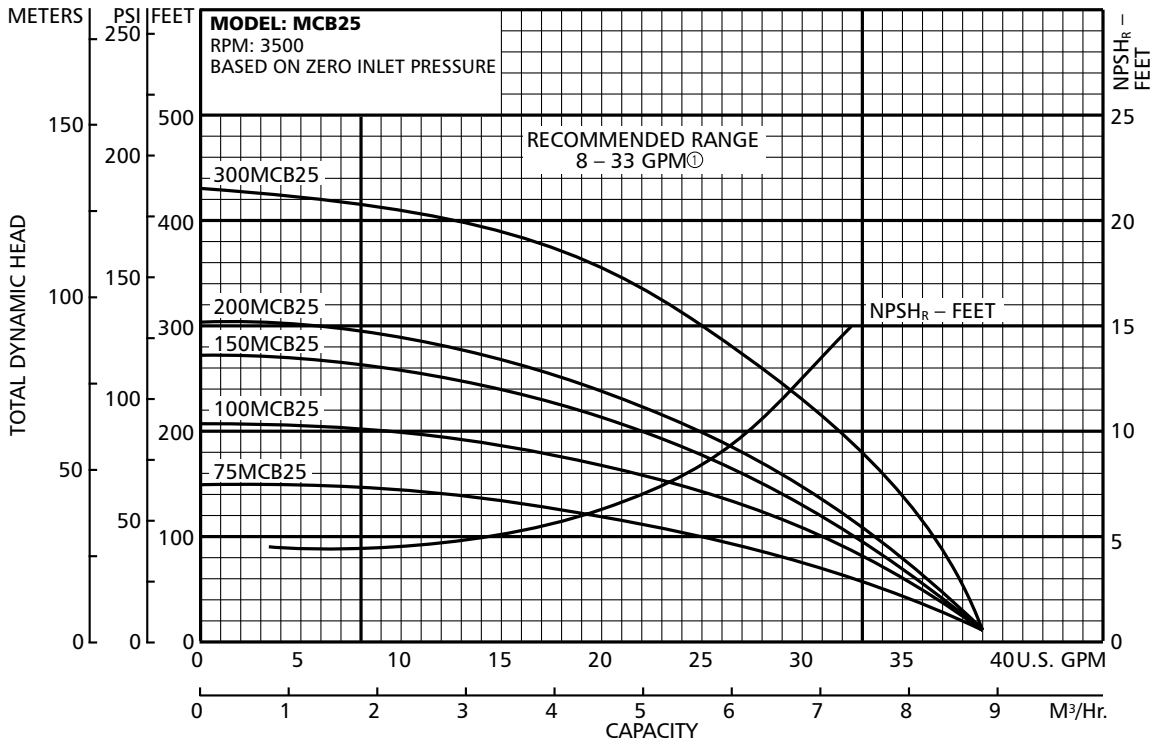
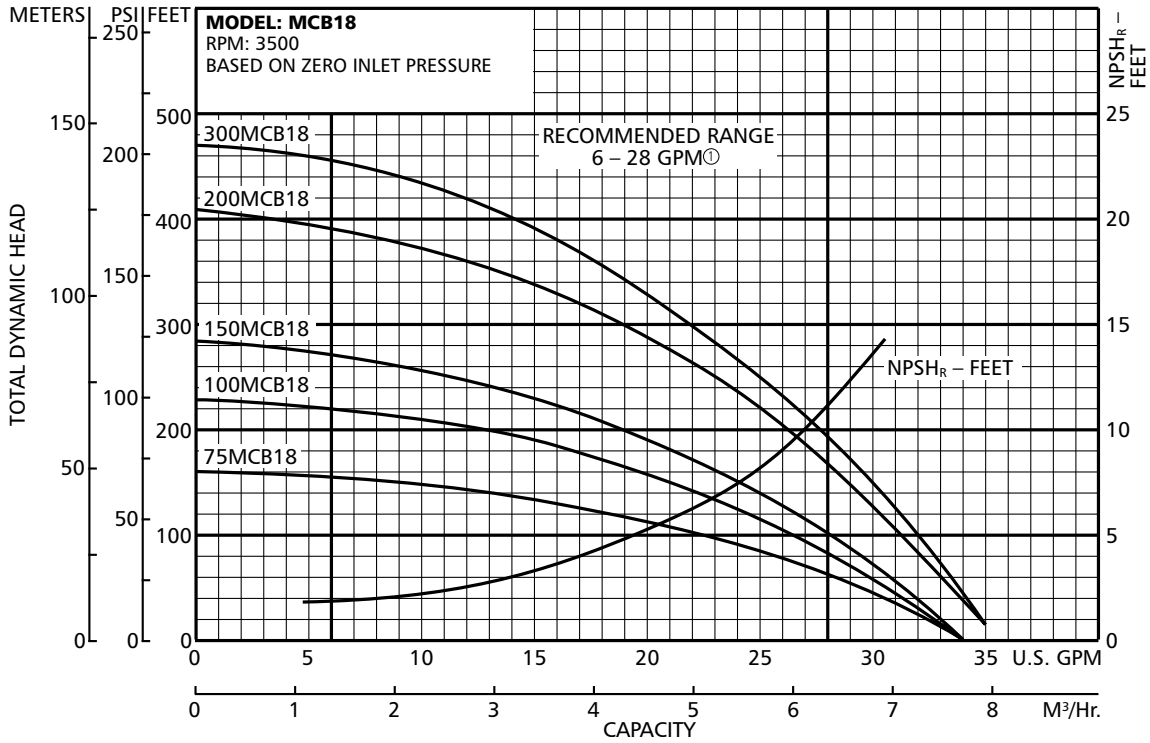


① Operation outside the recommended range may void the warranty and may result in poor performance and/or pump/motor life.

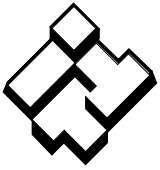


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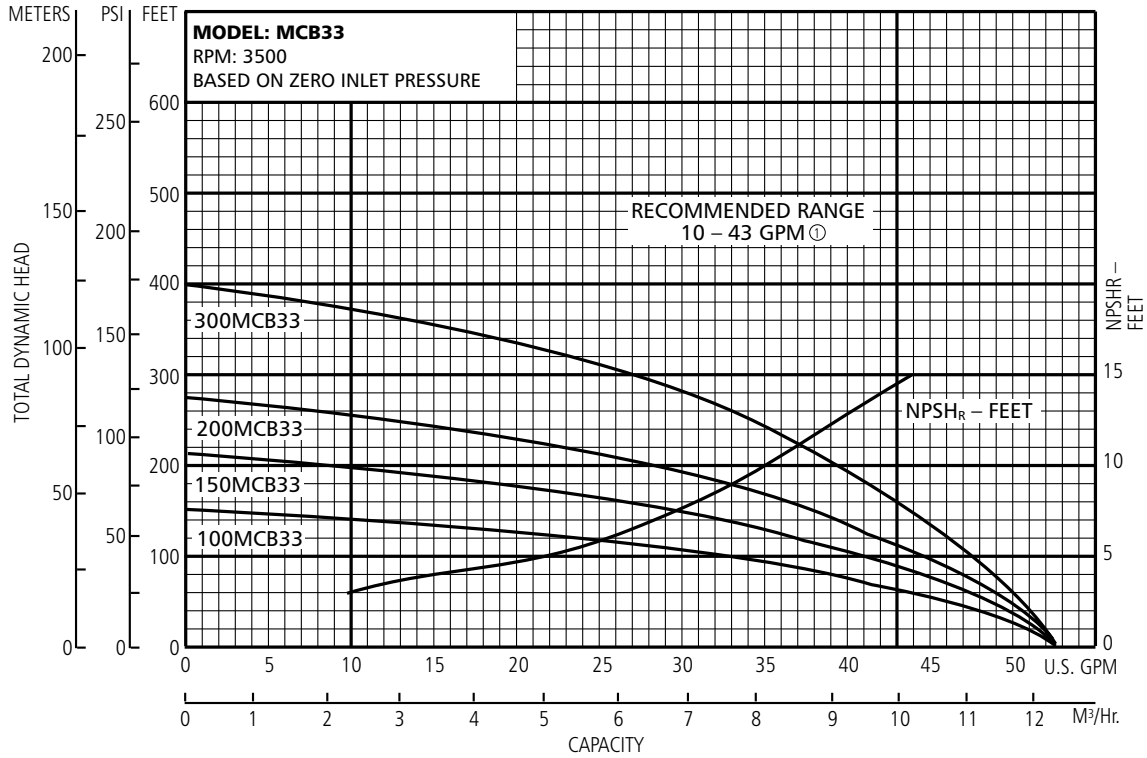


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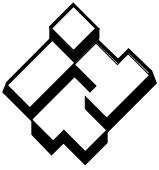


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ACCESSORIES

HOSE



AM3-5 – Discharge Hose
3/4" male x 3/4" female, 250 PSI hose, 40 ft. section, flexible.

AM4 – Suction Hose
3/4" female x 3/4" female, 150 PSI hose, 4 ft. section flexible.

HANDLE



4K452
Formed carbon steel handle is standard and can be ordered separately for use on other sizes.

PRESSURE GUN

AM2-2



Nozzle passes approximately 5.7 GPM at 140 lbs. pressure and provides a most effective angle spray.

PIPE ADAPTER

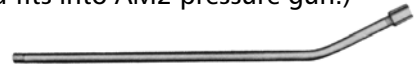


AM5-1
3/4" male HT x 1" male NPT hose to pipe adapter, stainless steel. Converts suction and discharge to 3/4" male NPT hose.

WAND EXTENSION

AM13-1 (32")

Aluminum spray wand extension, 1/4" male x 1/4" female. (Accepts nozzle in one end; other end fits into AM2 pressure gun.)



NOZZLE ASSORTMENT



AM7
Includes one 2 GPM rated 15° nozzle, one 3 GPM rated 15° nozzle and one 3 GPM rated 0° nozzle.



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Water Products

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