

ITT

BRJ4BFLO

Residential Water Systems

Red Jacket Water Products

BIG-FLO[®]

4" Submersibles



FEATURES

- Smooth passageways provide low friction radial water flow.
- Noryl[®] impeller-diffuser assemblies are encased in a corrosion resistant stainless steel shell.
- Pump and motor assembly are corrosion resistant.
- Efficient operation in either horizontal or vertical position.
- Impeller-diffuser assemblies are mounted on a 16-spline steel shaft for positive drive.
- A top bearing is provided in the cast iron discharge head for better shaft alignment.
- Replaceable journals protect shafts at bearings. Multi-stage construction permits modular or individual part replacements.
- Noryl[®]-staged components (impellers/diffusers) are permanently bonded by a reliable, foolproof, ultrasonic welding technique.
- Powered by CentriPro[®]. Motors are compatible with any competitive pump end of comparable horsepower.



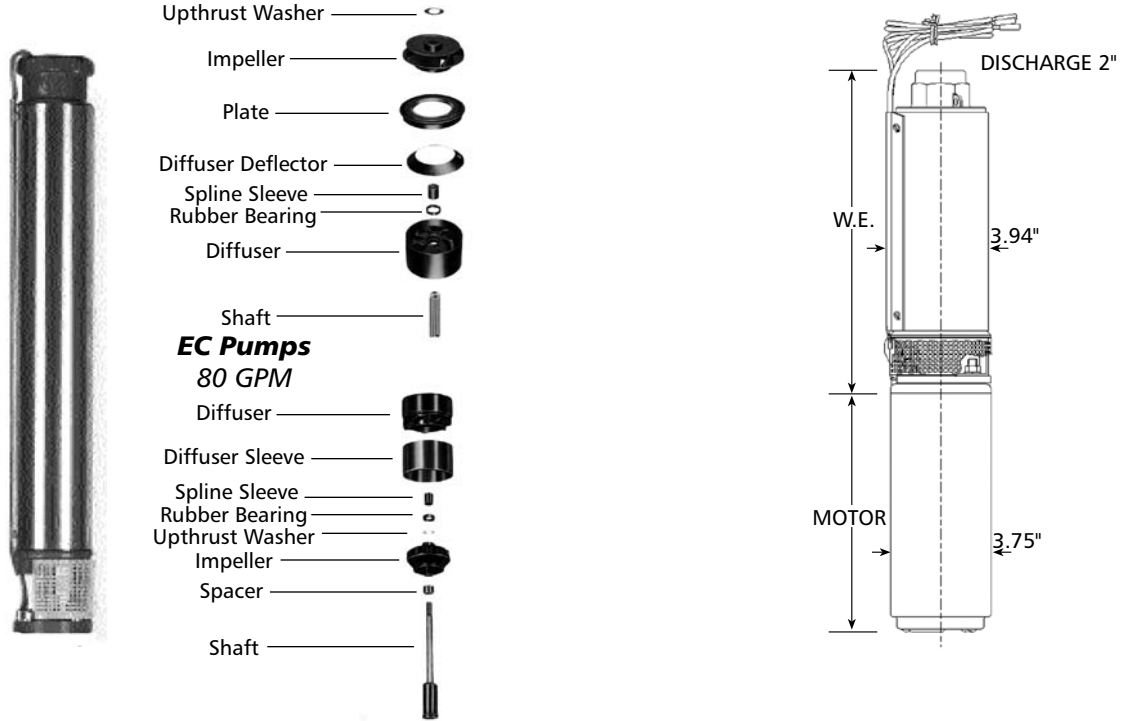
Red Jacket Water Products is a brand of ITT Corporation.

www.redjacketwaterproducts.com

Engineered for life

TYPICAL COMPONENTS – 4" SUBMERSIBLE

DC/FC Pumps – 28 through 50 GPM



WATER END DIMENSIONS & WEIGHTS

| Series | Order No. | Best Eff. in GPM | HP Required | Length w/o CV ① | | Weight | |
|--------|-----------|------------------|-------------|-----------------|------|--------|------|
| | | | | In. | mm | Lb. | Kg. |
| DC | 6DC | 28 | 1.5 | 16.3 | 414 | 15 | 33.1 |
| | 8DC | | 2 | 19.4 | 493 | 17 | 37.5 |
| | 11DC | | 3 | 24.1 | 612 | 21 | 46.3 |
| | 17DC | | 5 | 32.8 | 833 | 25 | 55.1 |
| FC | 6FC | 50 | 2 | 19.4 | 493 | 16 | 35.3 |
| | 8FC | | 3 | 25.2 | 640 | 21 | 46.3 |
| | 13FC | | 5 | 37.8 | 960 | 26 | 57.3 |
| | 20FC | | 7.5 | 53.0 | 1346 | 37 | 81.6 |
| EC | 4EC | 80 | 2 | 20.6 | 523 | 18 | 39.7 |
| | 6EC | | 3 | 25.2 | 640 | 23 | 50.7 |
| | 10EC | | 5 | 35.9 | 912 | 28 | 61.7 |
| | 15EC | | 7.5 | 51.4 | 1306 | 45 | 99.2 |

① Add 4.2" to length for external check valve

CENTRIPRO MOTOR LENGTHS AND WEIGHTS

| Type | Order No. | HP | Volts | Length | | Weight | |
|------------|-----------|-----|-------|--------|-----|--------|------|
| | | | | In. | mm | Lb. | Kg. |
| 2 Wire, 1Ø | 150C211 | 1.5 | 230 | 14.9 | 378 | 30 | 13.6 |
| | 150C311 | 1.5 | | 13.6 | 345 | 29 | 13.2 |
| 3 Wire, 1Ø | 200C311 | 2 | 230 | 15.1 | 383 | 34 | 14.1 |
| | 300C311 | 3 | | 18.3 | 466 | 42 | 18.1 |
| | 500C311 | 5 | | 27.7 | 703 | 73 | 31.8 |
| 3 Phase ② | 150C313 | 1.5 | 230 | 11.7 | 297 | 24 | 10.9 |
| | 200C313 | 2 | | 13.8 | 351 | 30 | 13.6 |
| | 300C313 | 3 | | 15.3 | 389 | 34 | 15.4 |
| | 500C313 | 5 | | 21.7 | 550 | 58 | 26.3 |
| | 750C313 | 7.5 | | 27.7 | 703 | 73 | 33.1 |

② To order 200, 460 or 575 volt motors change the last three digits of the order no.

200 V = 323, 460 V = 353, 575 V = 363

Big-Flo submersible pump/motor units are designed for industrial 4 inch pumping applications. Motors for the Big-Flo pump ends deliver between 1½ and 7½ horsepower with pump capacities up to 100 GPM for varying well depths.

“DC” SERIES, 28 GPM, PERFORMANCE TABLE

Recommended Operating Ranges

| Capacity in Gallons per Minute Against Discharge Pressures Shown | | | | | | | | | | | | | | | | | |
|--|----------|-------|------|------|------|--------|------|------|------|--------|------|------|------|--------|------|------|------|
| Depth to Water Level in Feet | Pump No. | 0 PSI | | | | 20 PSI | | | | 40 PSI | | | | 60 PSI | | | |
| | | 6DC | 8DC | 11DC | 17DC | 6DC | 8DC | 11DC | 17DC | 6DC | 8DC | 11DC | 17DC | 6DC | 8DC | 11DC | 17DC |
| | | HP | 1½ | 2 | 3 | 5 | 1½ | 2 | 3 | 5 | 1½ | 2 | 3 | 5 | 1½ | 2 | 3 |
| 40 | 46.6 | 48.8 | 49.2 | | 41.0 | 42.8 | 45.6 | | 31.3 | 38.5 | 42.9 | | 14.6 | 30.9 | 39.6 | 44.0 | |
| 80 | 42.3 | 43.5 | 46.1 | | 32.5 | 39.2 | 43.2 | | 18.2 | 32.1 | 40.1 | 44.2 | | 22.7 | 34.8 | 42.7 | |
| 120 | 33.8 | 39.8 | 43.6 | | 21.3 | 33.3 | 40.7 | 44.5 | | 24.0 | 35.7 | 42.8 | | | 29.1 | 41.2 | |
| 160 | 23.9 | 34.4 | 41.1 | 44.7 | | | 36.5 | 43.0 | | | 30.0 | 41.5 | | | 23.1 | 39.1 | |
| 200 | | 26.5 | 37.2 | 43.9 | | | 15.4 | 30.9 | 41.7 | | | 24.1 | 39.5 | | 13.6 | 36.0 | |
| 240 | | 17.5 | 31.8 | 42.0 | | | | 25.0 | 39.8 | | | 15.8 | 36.5 | | | | 32.3 |
| 280 | | | 26.0 | 40.2 | | | | 17.5 | 37.0 | | | | 32.9 | | | | 28.6 |
| 320 | | | 19.1 | 37.5 | | | | | 33.5 | | | | 29.2 | | | | 25.2 |
| 360 | | | | 34.1 | | | | | 29.7 | | | | 25.7 | | | | 21.3 |
| 400 | | | | 30.3 | | | | | 26.2 | | | | 22.0 | | | | 13.9 |
| 440 | | | | 26.8 | | | | | 22.7 | | | | 15.5 | | | | |
| 480 | | | | 23.3 | | | | | 16.9 | | | | | | | | |
| 520 | | | | 18.1 | | | | | | | | | | | | | |

“FC” SERIES, 50 GPM, PERFORMANCE TABLE

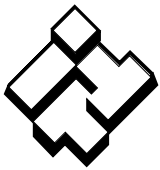
Recommended Operating Ranges

| Capacity in Gallons per Minute Against Discharge Pressures Shown | | | | | | | | | | | | | | | | | |
|--|----------|-------|------|------|------|--------|------|------|------|--------|------|------|------|--------|------|------|------|
| Depth to Water Level in Feet | Pump No. | 0 PSI | | | | 20 PSI | | | | 40 PSI | | | | 60 PSI | | | |
| | | 6FC | 8FC | 13FC | 20FC | 6FC | 8FC | 13FC | 20FC | 6FC | 8FC | 13FC | 20FC | 6FC | 8FC | 13FC | 20FC |
| | | HP | 2 | 3 | 5 | 7½ | 2 | 3 | 5 | 7½ | 2 | 3 | 5 | 7½ | 2 | 3 | 5 |
| 40 | | | | | 63.3 | | | | | 39.6 | 58.7 | | | | 39.7 | 67.3 | |
| 80 | 65.3 | | | | 43.0 | 60.6 | | | | | 42.3 | 68.2 | | | | 60.6 | 69.3 |
| 120 | 46.7 | 62.4 | | | | 45.0 | 69.1 | | | | 22.5 | 61.7 | 69.6 | | | 51.8 | 67.6 |
| 160 | | 47.7 | 70.1 | | | 27.1 | 62.9 | 69.9 | | | | 53.3 | 67.9 | | | 41.5 | 64.9 |
| 200 | | 30.6 | 63.9 | 70.2 | | | 54.8 | 68.2 | | | | 43.2 | 65.4 | | | 28.3 | 60.7 |
| 240 | | | 56.2 | 68.4 | | | 44.8 | 65.9 | | | | 30.9 | 61.4 | | | | 54.9 |
| 280 | | | 46.4 | 66.3 | | | 33.2 | 62.2 | | | | | 55.9 | | | | 48.4 |
| 320 | | | 35.3 | 62.8 | | | | 56.8 | | | | | 49.4 | | | | 41.3 |
| 360 | | | | 57.8 | | | | 50.4 | | | | | 42.5 | | | | 32.7 |
| 400 | | | | 51.5 | | | | 43.6 | | | | | 34.3 | | | | |
| 440 | | | | 44.7 | | | | 35.7 | | | | | | | | | |
| 480 | | | | 37.1 | | | | 23.8 | | | | | | | | | |
| 520 | | | | 26.2 | | | | | | | | | | | | | |

“EC” SERIES, 80 GPM, PERFORMANCE TABLE

Recommended Operating Ranges

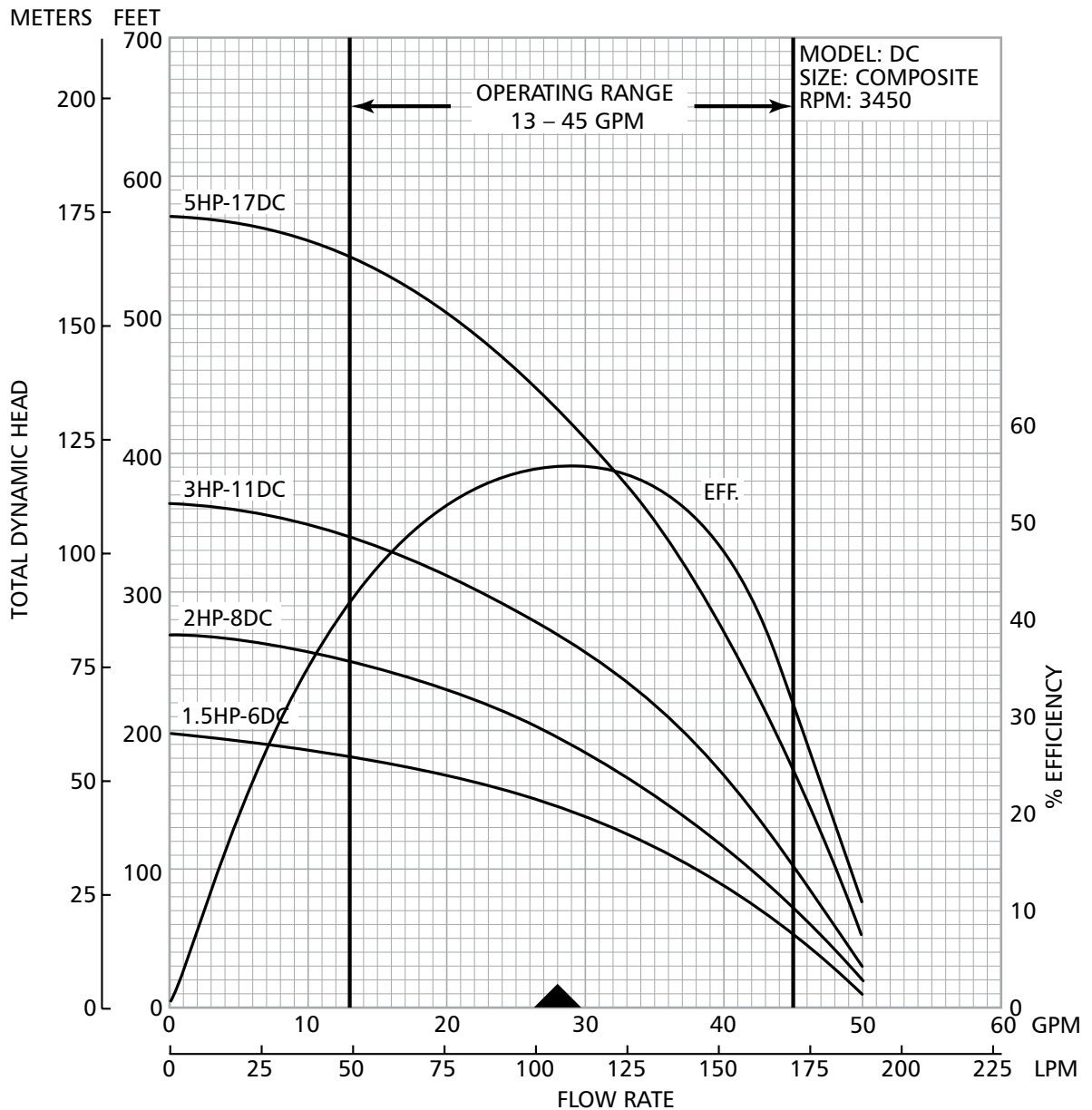
| Capacity in Gallons per Minute Against Discharge Pressures Shown | | | | | | | | | | | | | | | | | |
|--|----------|-------|------|------|------|--------|------|-------|------|--------|------|------|------|--------|-----|------|------|
| Depth to Water Level in Feet | Pump No. | 0 PSI | | | | 20 PSI | | | | 40 PSI | | | | 60 PSI | | | |
| | | 4EC | 6EC | 10EC | 15EC | 4EC | 6EC | 10EC | 15EC | 4EC | 6EC | 10EC | 15EC | 4EC | 6EC | 10EC | 15EC |
| | | HP | 2 | 3 | 5 | 7½ | 2 | 3 | 5 | 7½ | 2 | 3 | 5 | 7½ | 2 | 3 | 5 |
| 40 | 96.3 | 110.6 | | | 52.9 | 84.0 | | | | | 54.5 | 87.2 | | | | 69.5 | 92.9 |
| 60 | 78.0 | 100.0 | | | | 71.2 | 97.3 | | | | | 79.4 | 99.4 | | | 62.5 | 87.9 |
| 80 | 59.2 | 88.0 | | | | 58.7 | 89.6 | | | | | 71.8 | 94.4 | | | 55.4 | 82.9 |
| 100 | 33.9 | 75.2 | 99.6 | | | 43.4 | 81.8 | 100.9 | | | | 64.6 | 89.4 | | | 47.0 | 78.2 |
| 140 | | 48.9 | 84.2 | | | | 66.8 | 91.0 | | | | 49.9 | 79.6 | | | | 69.2 |
| 180 | | | 69.0 | 92.5 | | | 52.5 | 81.1 | | | | | 70.5 | | | | 60.1 |
| 220 | | | 54.9 | 82.6 | | | | 71.9 | | | | | 61.6 | | | | 48.5 |
| 260 | | | | 73.3 | | | | 63.1 | | | | | 50.6 | | | | |
| 300 | | | | 64.5 | | | | 52.6 | | | | | | | | | |
| 340 | | | | 54.5 | | | | | | | | | | | | | |



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Red Jacket Water Products Residential Water Systems

"DC" Series 4" Pumps – 28 GPM

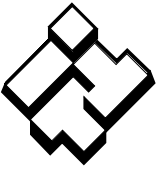


▲ Rated Flow at Best Efficiency

"DC" Series, 28 GPM

Guaranteed as minimum performance only if certified.

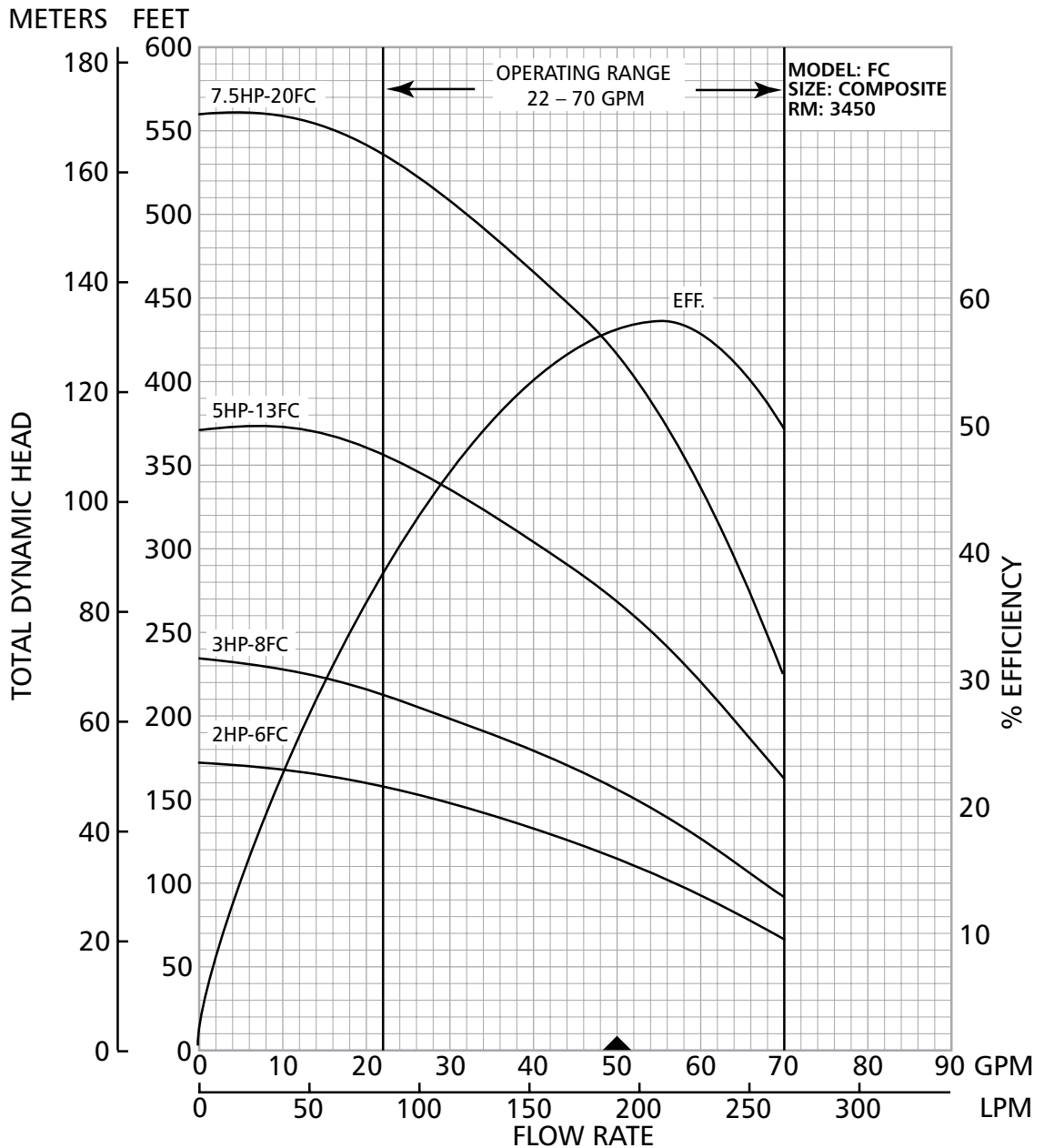
Minimum Well Size: 4" I.D.



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Red Jacket Water Products Residential Water Systems

"FC" Series 4" Pumps – 50 GPM

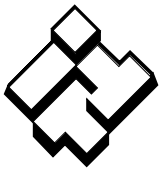


▲ Rated Flow at Best Efficiency

"FC" Series, 50 GPM

Guaranteed as minimum performance only if certified.

Minimum Well Size: 4" I.D.

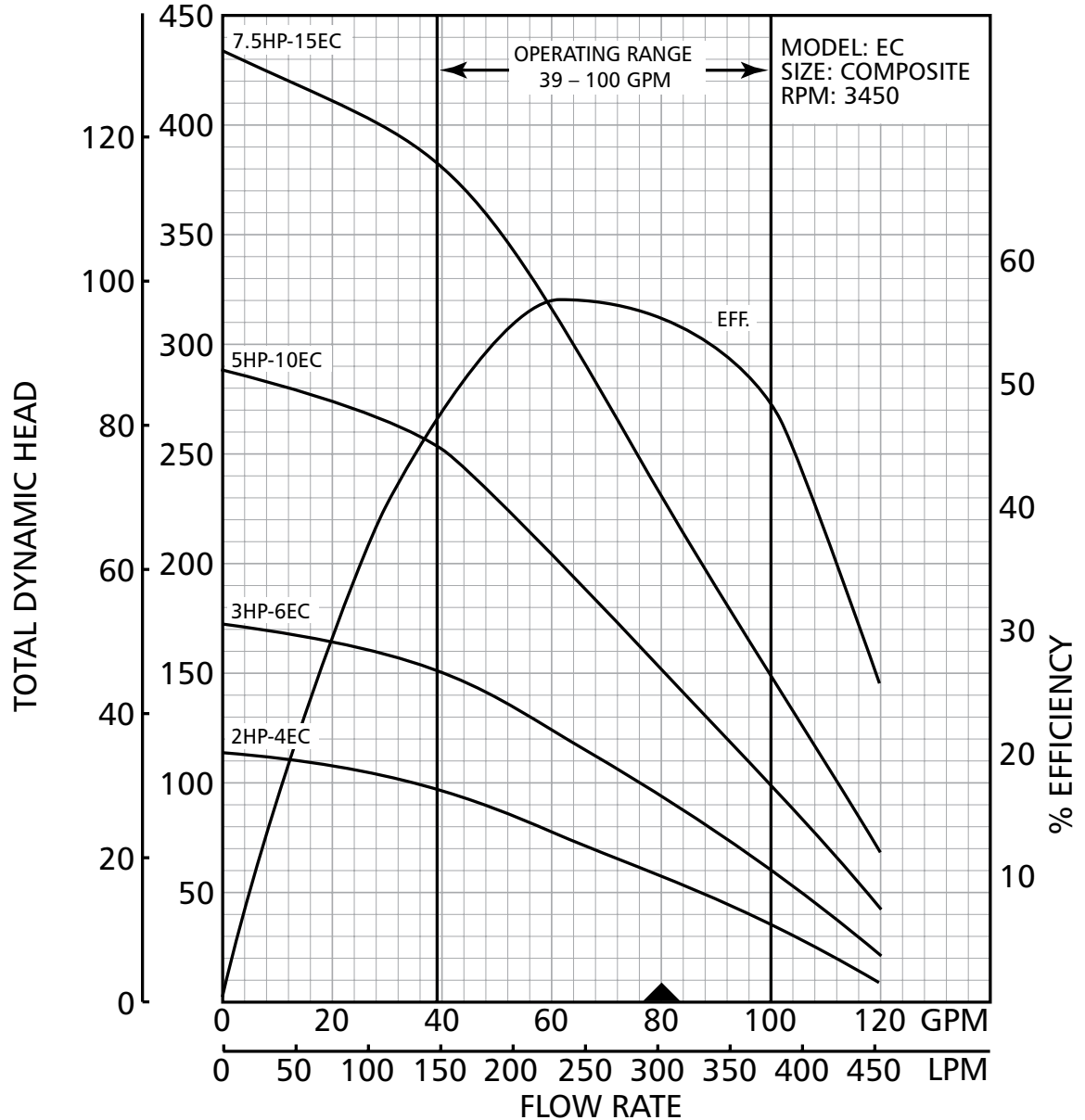


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"EC" Series 4" Pumps – 80 GPM

METERS FEET

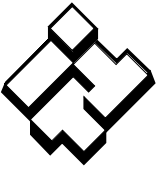


▲ **Rated Flow at Best Efficiency**

"EC" Series, 80 GPM

Guaranteed as minimum performance only if certified.

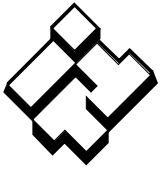
Minimum Well Size: 4" I.D.



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Notes



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