



The Advance® 4000 design meets requirements of medium flow and higher head applications.

- Resin options enable this strong, durable, versatile unit to cover a broad range of fluid applications.
- The patented Impenatra® Seal properly handles challenging applications at a fraction of the cost of exotic alloys, by preventing fluids contact with metal parts.
- Ideal hydraulic coverage and exceptional peak efficiency allow the Advance® 4000 to meet requirements where larger pumps are typically specified.

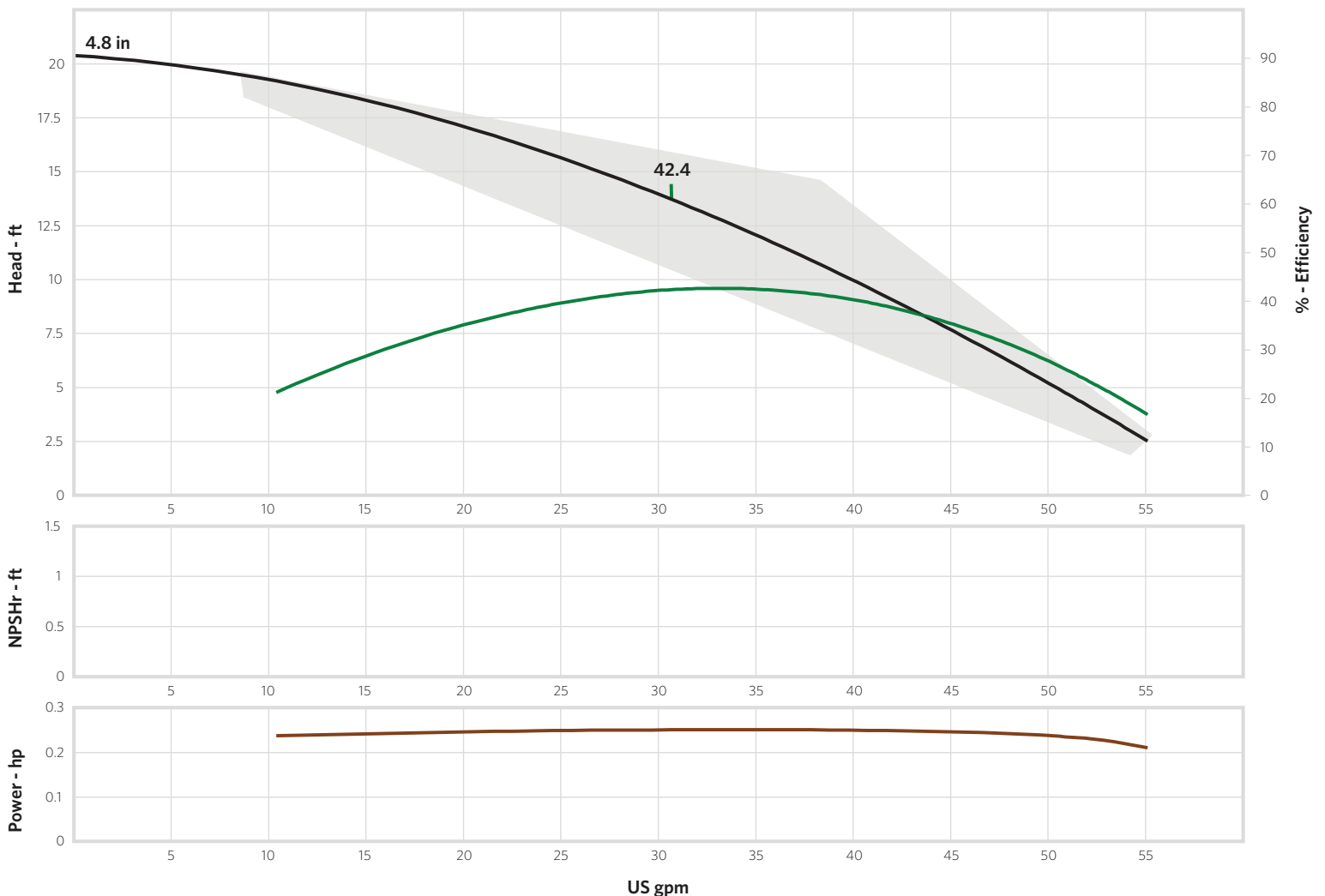
Performance Envelope

- 55 GPM
- 21' Head
- 48% Peak Efficiency

Advance® 4000 4 Pole Full / Minimum Diameter Performance Curve

Speed: 1750 rpm

Size: 4000.054



Pump:

Size: 54
 Type: Advance 4000
 Synch speed: 1800 rpm
 Curve:
 Specific Speeds:
 Dimensions:
 Speed: 1750 rpm
 Dia: 4.8 in
 Impeller: 4000.054
 Ns: ---
 Nss: ---
 Suction: ---
 Discharge: ---

Search Criteria:

Flow: --- Head: ---

Fluid:

Water
 SG: 1
 Viscosity: 1.105 cP
 NPSHa: ---
 Temperature: 60 °F
 Vapor pressure: 0.2563 psi a
 Atm pressure: 14.7 psi a

Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 Size: 0.33 hp
 Speed: 1800
 Frame: 56J

Pump Limits:

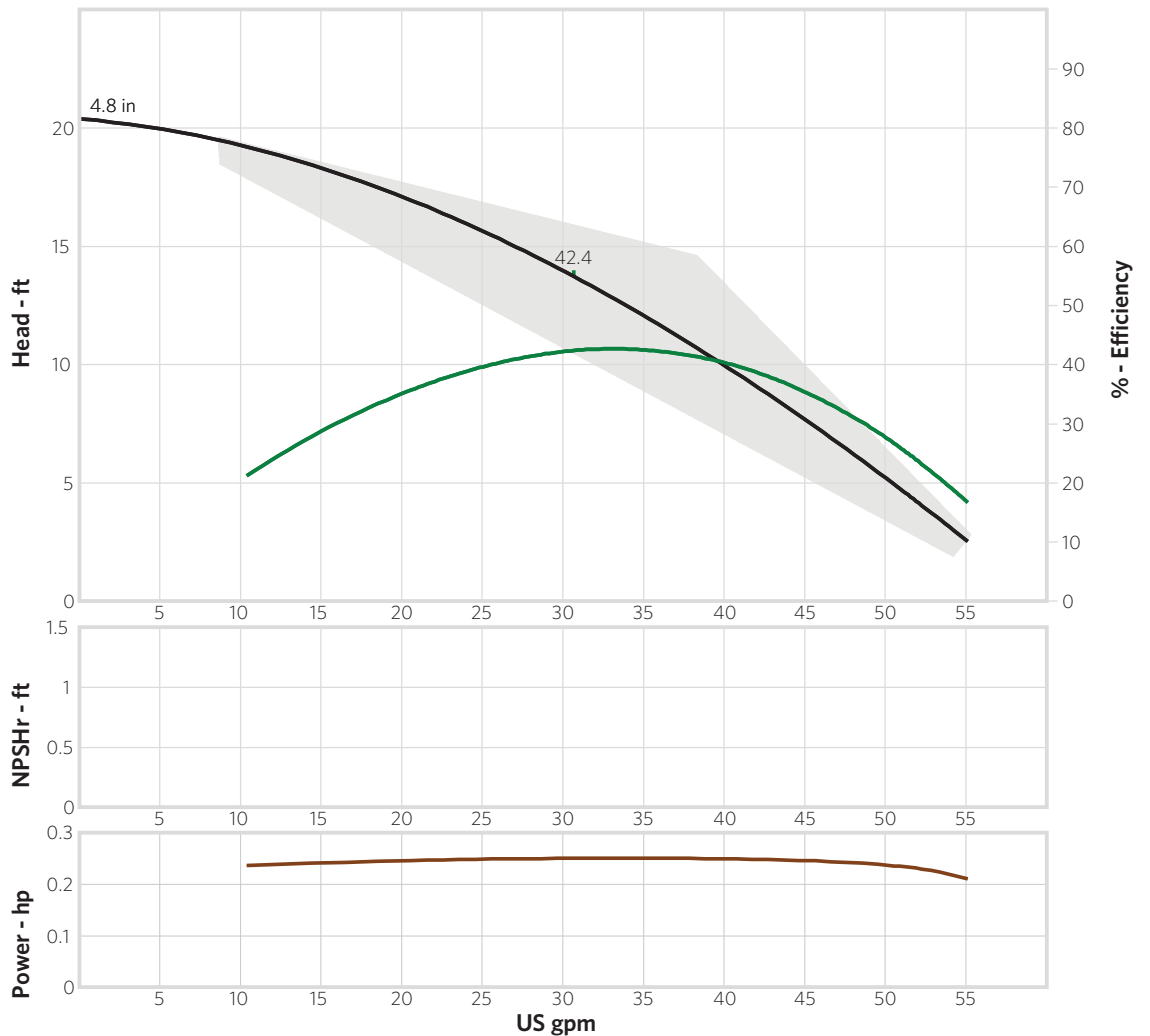
Temperature: ---
 Pressure: ---
 Sphere size: ---
 Power: ---
 Eye area: ---

---- Data Point ----

Flow: 30.7 US gpm
 Head: 13.7 ft
 Eff: 42.4%
 Power: 0.251 hp
 NPSHr: ---

---- Design Curve ----

Shutoff head: 20.4 ft
 Shutoff dP: 8.83 psi
 Min flow: ---
 BEP: 42.4% @ 30.7 US gpm
 NOL power: 0.251 hp @ 35.8 US gpm



Performance Evaluation:

| Flow US gpm | Speed rpm | Head ft | Efficiency % | Power hp | NPSHr ft |
|----------------|--------------|------------|-----------------|-------------|-------------|
| 52.9 | 1750 | 3.69 | 21.7 | 0.226 | --- |
| 44.1 | 1750 | 8.08 | 36.2 | 0.247 | --- |
| 35.3 | 1750 | 11.9 | 42.3 | 0.251 | --- |
| 26.5 | 1750 | 15.1 | 40.5 | 0.25 | --- |
| 17.6 | 1750 | 17.6 | 31.5 | 0.244 | --- |



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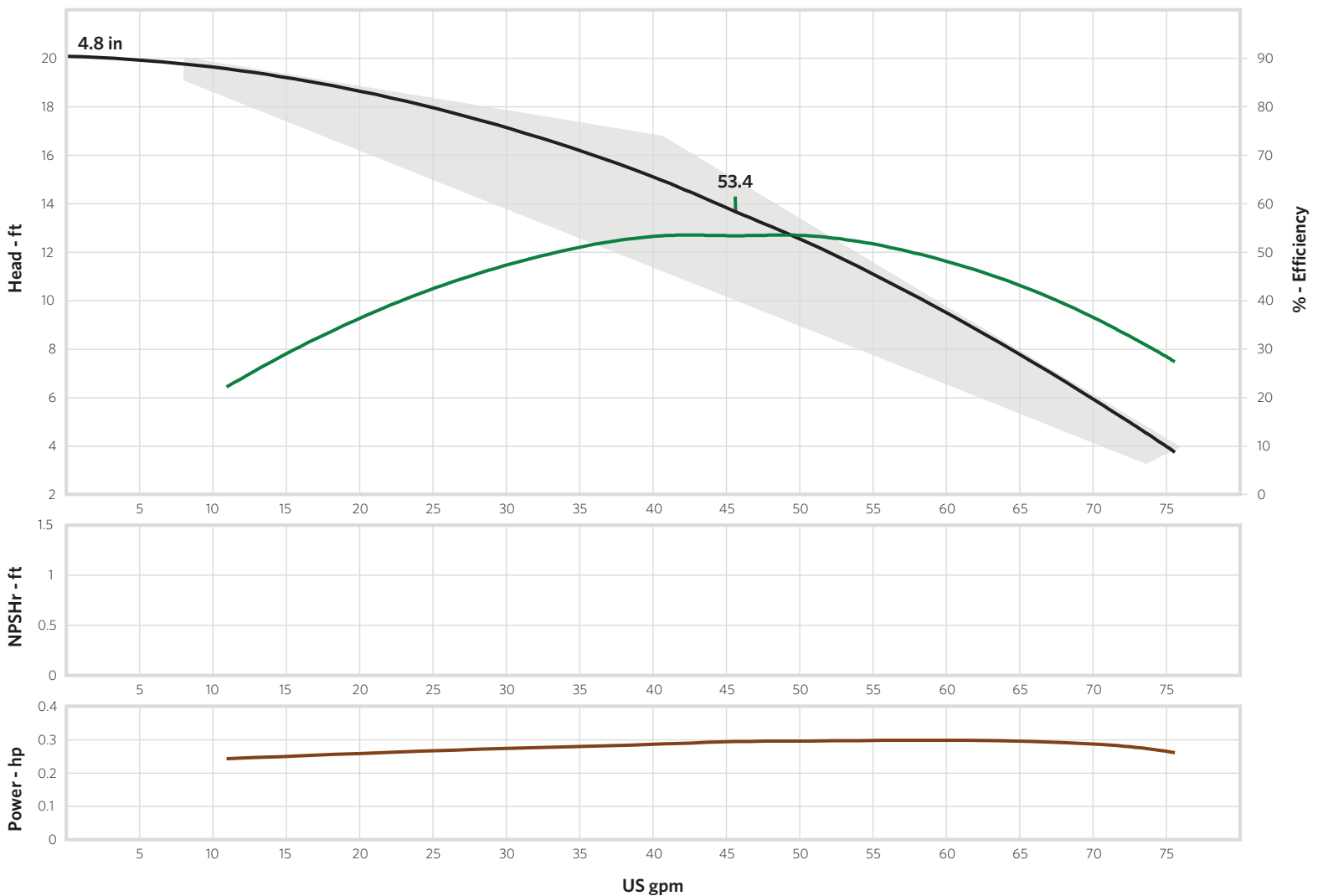
Performance Envelope

- 75 GPM
- 20' Head
- 60% Peak Efficiency

Advance® 4000 4 Pole Full / Minimum Diameter Performance Curve

Speed: 1750 rpm

Size: 4000.055



Pump:

Size: 55
 Type: Advance 4000
 Synch speed: 1800 rpm
 Speed: 1750 rpm
 Dia: 4.8 in
 Curve:
 Impeller: 4000.055
 Specific Speeds:
 Ns: ---
 Nss: ---
 Dimensions:
 Suction: ---
 Discharge: ---

Search Criteria:

Flow: --- Head: ---

Fluid:

Water
 SG: 1
 Viscosity: 1.105 cP
 NPSHa: ---
 Temperature: 60 °F
 Vapor pressure: 0.2563 psi a
 Atm pressure: 14.7 psi a

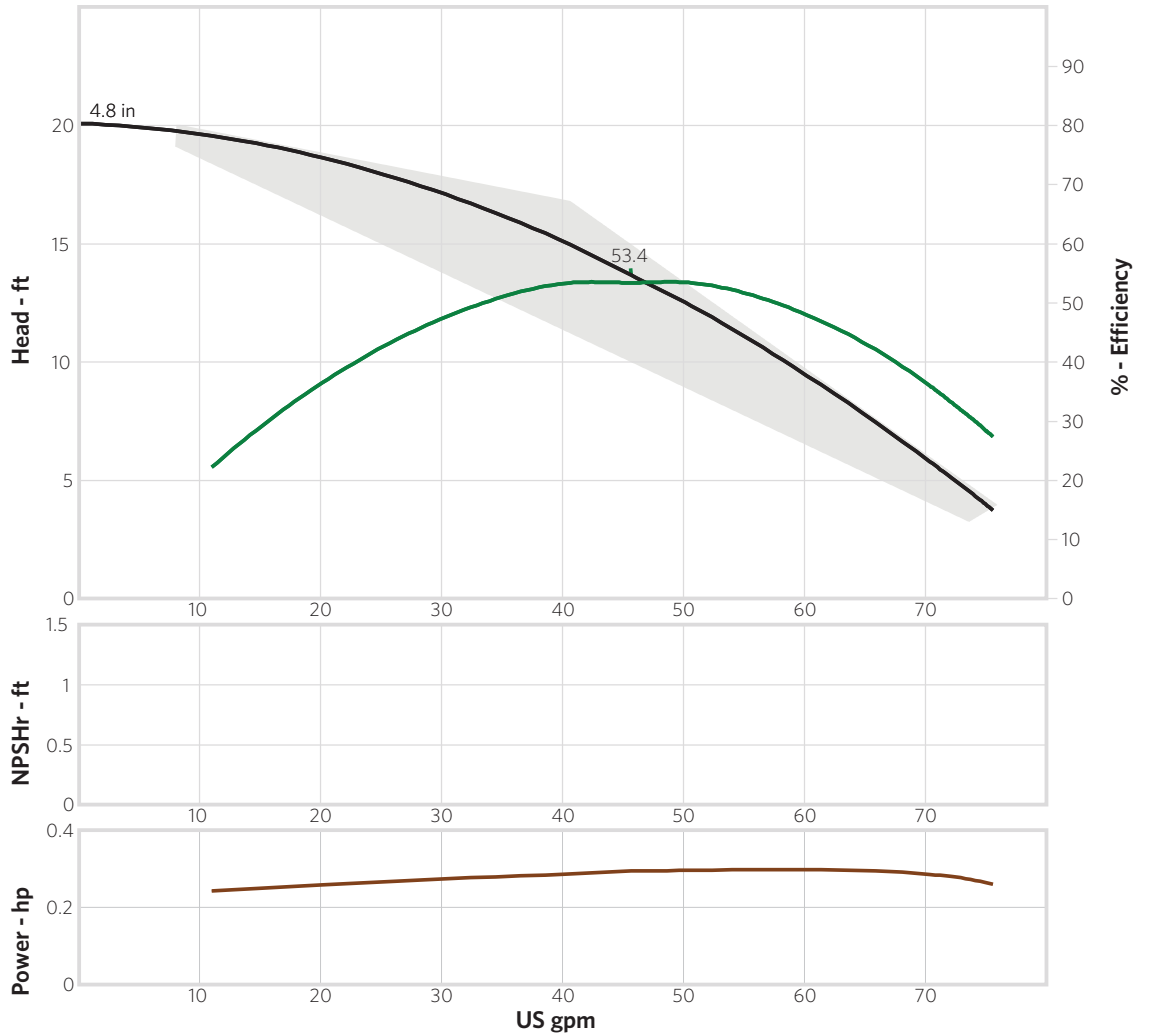
Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 Size: 0.33 hp
 Speed: 1800
 Frame: 56J

Pump Limits:

Temperature: ---
 Pressure: ---
 Sphere size: ---
 Power: ---
 Eye area: ---

| ---- Data Point ---- | |
|------------------------|------------------------|
| Flow: | 45.6 US gpm |
| Head: | 13.7 ft |
| Eff: | 53.4% |
| Power: | 0.295 hp |
| NPSHr: | --- |
| ---- Design Curve ---- | |
| Shutoff head: | 20.1 ft |
| Shutoff dP: | 8.7 psi |
| Min flow: | --- |
| BEP: | 53.4% @ 45.6 US gpm |
| NOL power: | 0.299 hp @ 59.1 US gpm |



Performance Evaluation:

| Flow US gpm | Speed rpm | Head ft | Efficiency % | Power hp | NPSHr ft |
|----------------|--------------|------------|-----------------|-------------|-------------|
| 72.5 | 1750 | 4.97 | 32.6 | 0.279 | --- |
| 60.4 | 1750 | 9.32 | 47.4 | 0.297 | --- |
| 48.3 | 1750 | 13 | 53.4 | 0.296 | --- |
| 36.2 | 1750 | 15.9 | 50.9 | 0.282 | --- |
| 24.2 | 1750 | 18 | 41 | 0.265 | --- |



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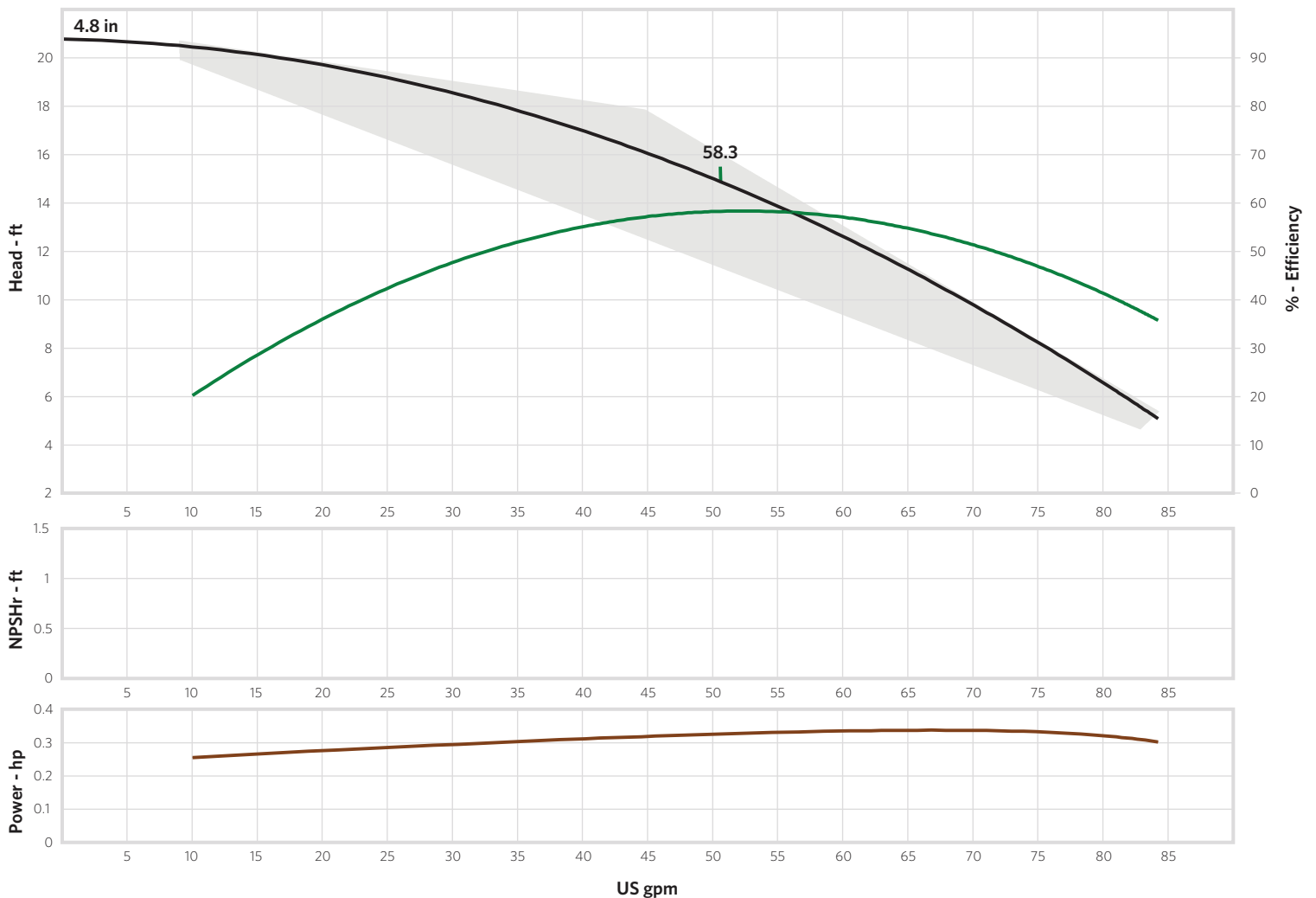
Performance Envelope

- 84 GPM
- 21' Head
- 65% Peak Efficiency

Advance® 4000 4 Pole Full / Minimum Diameter Performance Curve

Speed: 1750 rpm

Size: 4000.056



Pump:

Size: 56
 Type: Advance 4000
 Synch speed: 1800 rpm
 Curve:
 Specific Speeds:
 Dimensions:
 Speed: 1750 rpm
 Dia: 4.8 in
 Impeller: 4000.056
 Ns: ---
 Nss: ---
 Suction: ---
 Discharge: ---

Search Criteria:

Flow: --- Head: ---

Fluid:

Water
 SG: 1
 Viscosity: 1.105 cP
 NPSHa: ---
 Temperature: 60 °F
 Vapor pressure: 0.2563 psi a
 Atm pressure: 14.7 psi a

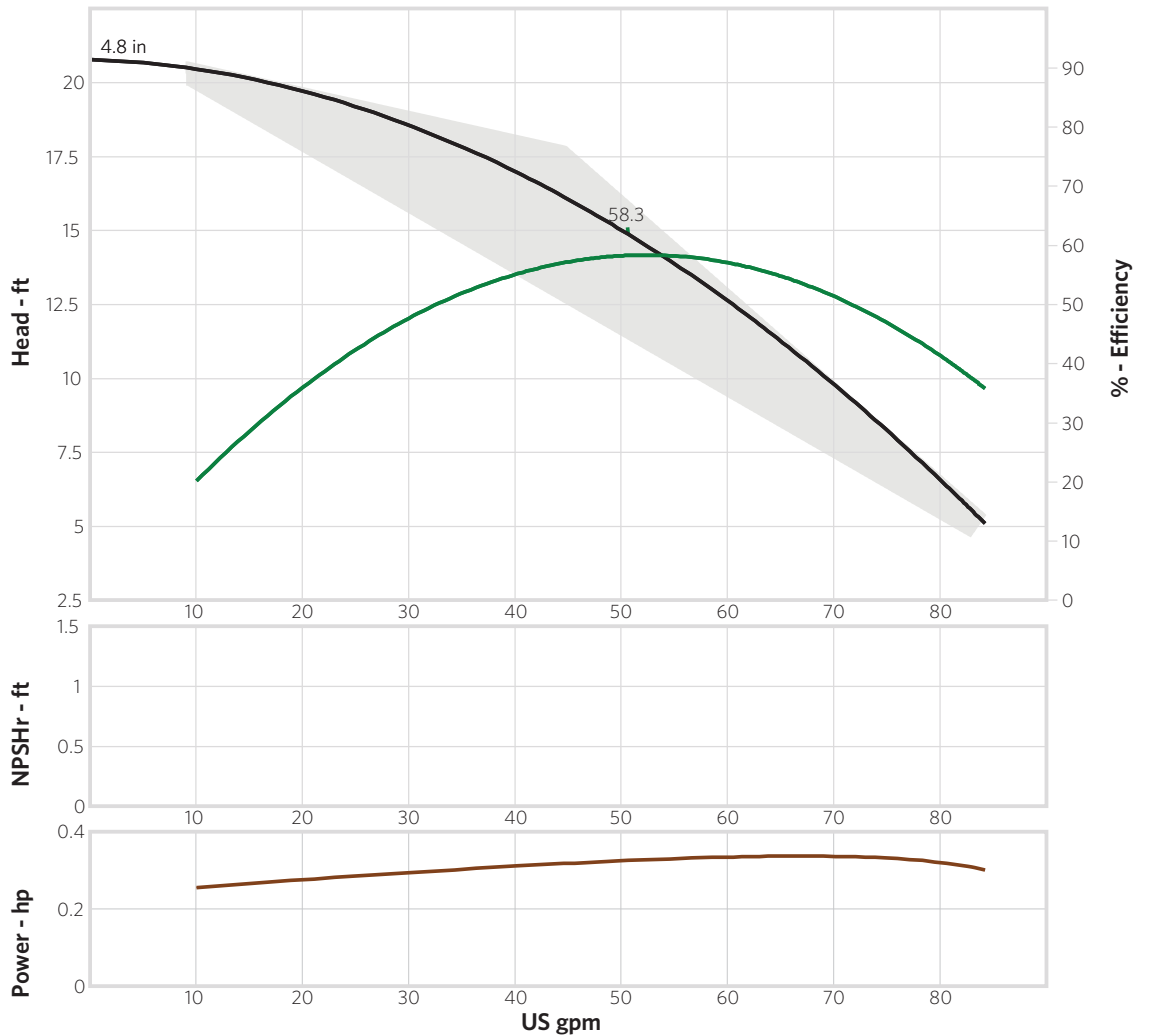
Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 Size: 0.5 hp
 Speed: 1800
 Frame: 56J

Pump Limits:

Temperature: ---
 Pressure: ---
 Sphere size: ---
 Power: ---
 Eye area: ---

| ---- Data Point ---- | |
|------------------------|------------------------|
| Flow: | 50.6 US gpm |
| Head: | 14.9 ft |
| Eff: | 58.3% |
| Power: | 0.326 hp |
| NPSHr: | --- |
| ---- Design Curve ---- | |
| Shutoff head: | 20.8 ft |
| Shutoff dP: | 9 psi |
| Min flow: | --- |
| BEP: | 58.3% @ 50.6 US gpm |
| NOL power: | 0.337 hp @ 64.6 US gpm |



Performance Evaluation:

| Flow US gpm | Speed rpm | Head ft | Efficiency % | Power hp | NPSHr ft |
|----------------|--------------|------------|-----------------|-------------|-------------|
| 80.9 | 1750 | 6.25 | 40.2 | 0.318 | --- |
| 67.4 | 1750 | 10.6 | 53.1 | 0.337 | --- |
| 53.9 | 1750 | 14.1 | 57.8 | 0.329 | --- |
| 40.4 | 1750 | 16.9 | 55.3 | 0.312 | --- |
| 27 | 1750 | 18.9 | 44.2 | 0.289 | --- |



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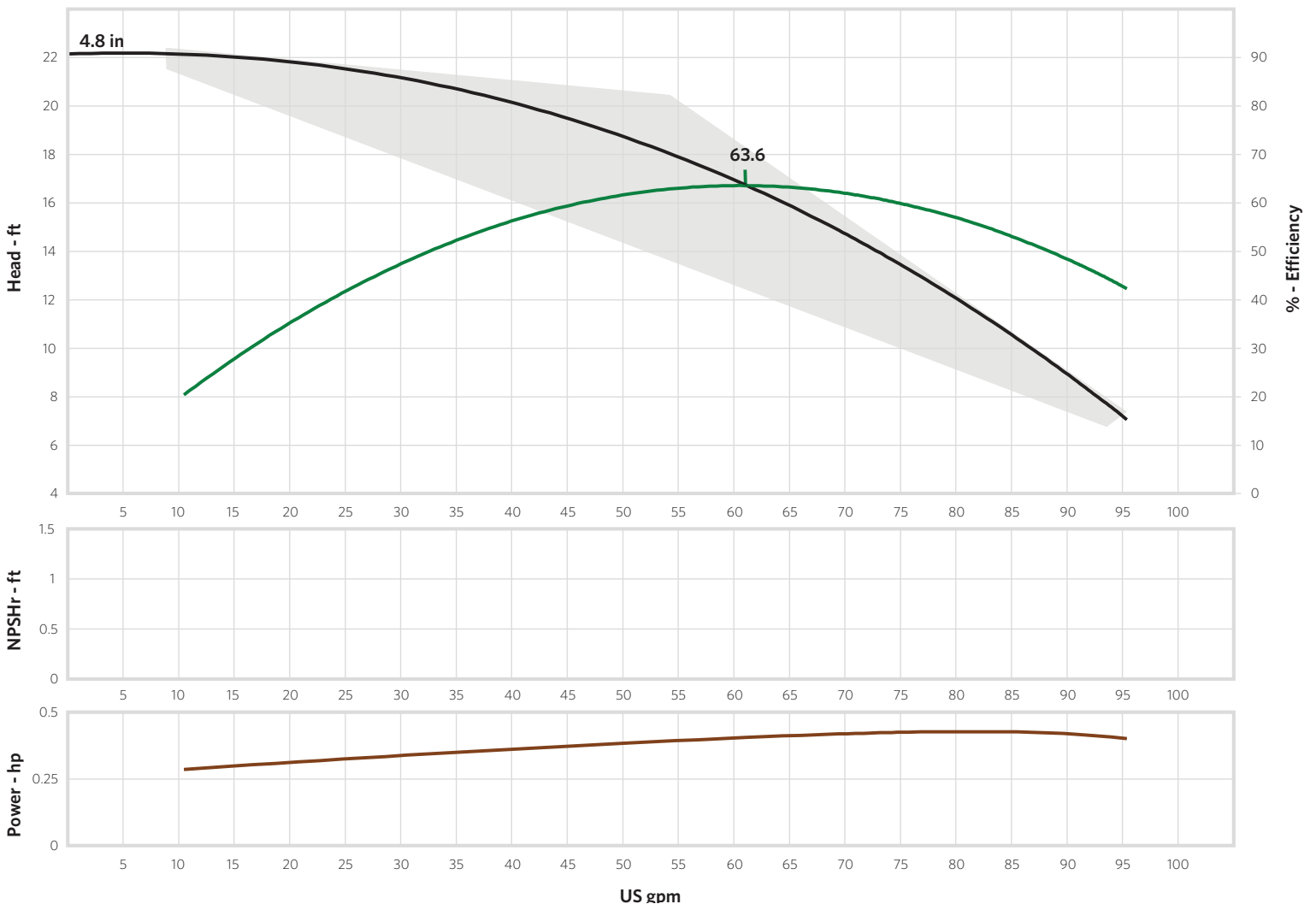
Performance Envelope

- 95 GPM
- 22' Head
- 71% Peak Efficiency

Advance® 4000 4 Pole Full / Minimum Diameter Performance Curve

Speed: 1750 rpm

Size: 4000.057



Pump:

Size: 57
 Type: Advance 4000
 Synch speed: 1800 rpm
 Speed: 1750 rpm
 Dia: 4.8 in
 Curve:
 Impeller: 4000.057
 Specific Speeds:
 Ns: ---
 Nss: ---
 Dimensions:
 Suction: ---
 Discharge: ---

Search Criteria:

Flow: --- Head: ---

Fluid:

Water
 SG: 1
 Viscosity: 1.105 cP
 NPSHa: ---
 Temperature: 60 °F
 Vapor pressure: 0.2563 psi a
 Atm pressure: 14.7 psi a

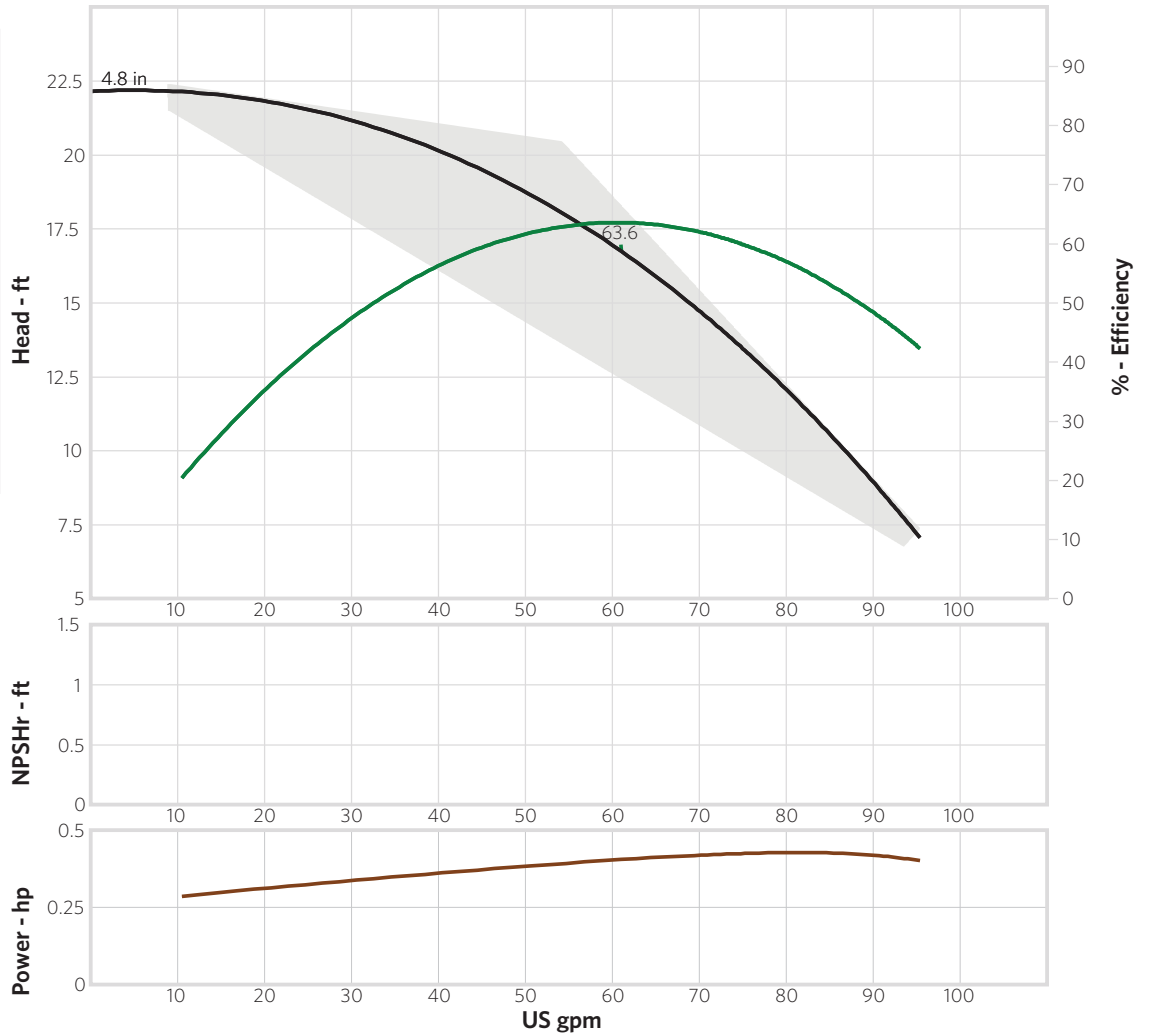
Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 Size: 0.5 hp
 Speed: 1800
 Frame: 56J

Pump Limits:

Temperature: ---
 Pressure: ---
 Sphere size: ---
 Power: ---
 Eye area: ---

| ---- Data Point ---- | |
|------------------------|----------------------|
| Flow: | 61 US gpm |
| Head: | 16.7 ft |
| Eff: | 63.6% |
| Power: | 0.406 hp |
| NPSHr: | --- |
| ---- Design Curve ---- | |
| Shutoff head: | 22.2 ft |
| Shutoff dP: | 9.59 psi |
| Min flow: | --- |
| BEP: | 63.6% @ 61 US gpm |
| NOL power: | 0.428 hp @ 81 US gpm |



Performance Evaluation:

| Flow US gpm | Speed rpm | Head ft | Efficiency % | Power hp | NPSHr ft |
|----------------|--------------|------------|-----------------|-------------|-------------|
| 91.6 | 1750 | 8.39 | 46.7 | 0.415 | --- |
| 76.3 | 1750 | 13.1 | 59.2 | 0.426 | --- |
| 61 | 1750 | 16.7 | 63.6 | 0.406 | --- |
| 45.8 | 1750 | 19.3 | 59.4 | 0.374 | --- |
| 30.5 | 1750 | 21.1 | 48 | 0.339 | --- |



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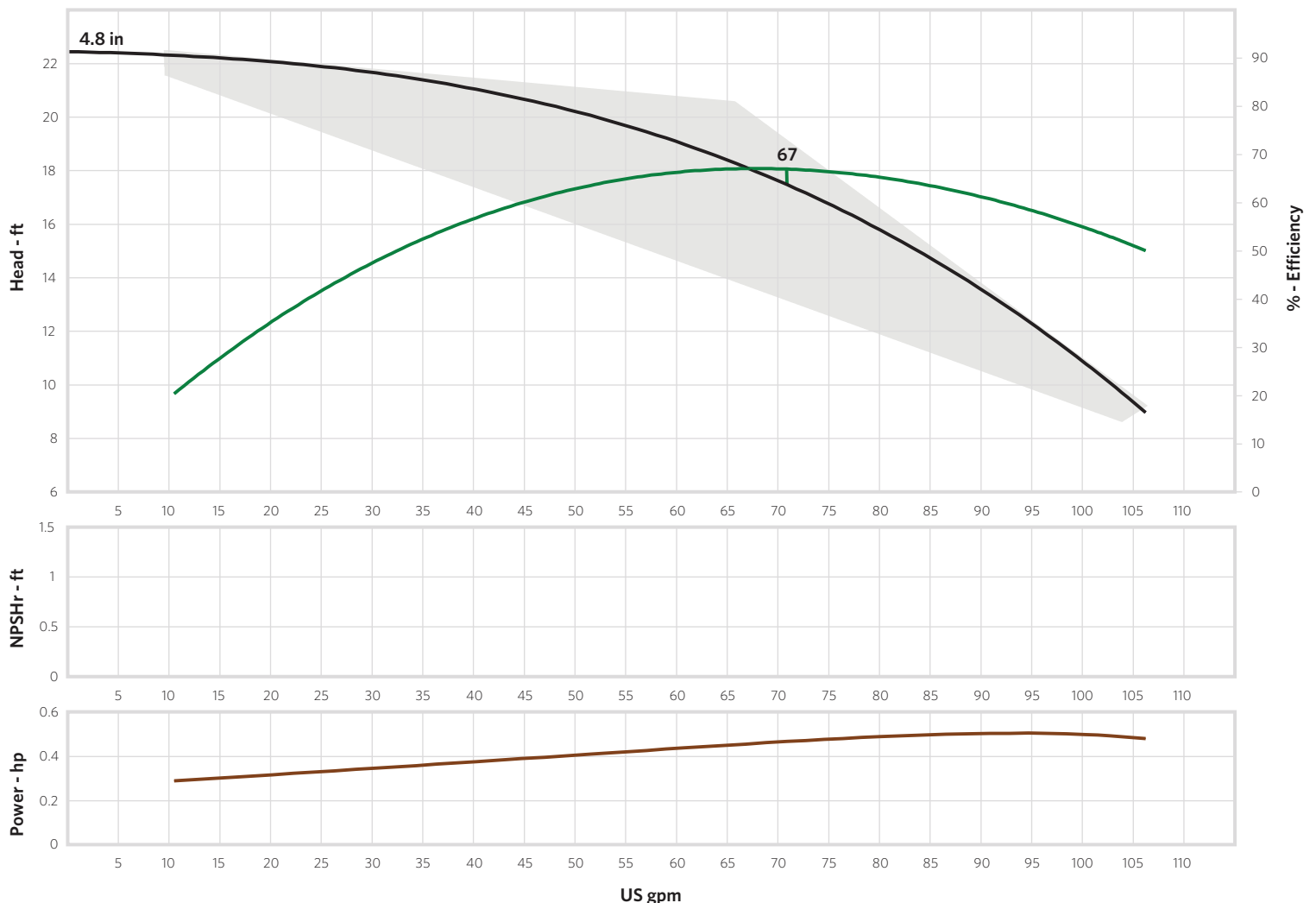
Performance Envelope

- 106 GPM
- 23' Head
- 76% Peak Efficiency

Advance® 4000 4 Pole Full / Minimum Diameter Performance Curve

Speed: 1750 rpm

Size: 4000.058



Pump:

Size: 58
 Type: Advance 4000
 Synch speed: 1800 rpm
 Curve:
 Specific Speeds:
 Dimensions:
 Speed: 1750 rpm
 Dia: 4.8 in
 Impeller: 4000.058
 Ns: ---
 Nss: ---
 Suction: ---
 Discharge: ---

Search Criteria:

Flow: --- Head: ---

Fluid:

Water
 SG: 1
 Viscosity: 1.105 cP
 NPSHa: ---
 Temperature: 60 °F
 Vapor pressure: 0.2563 psi a
 Atm pressure: 14.7 psi a

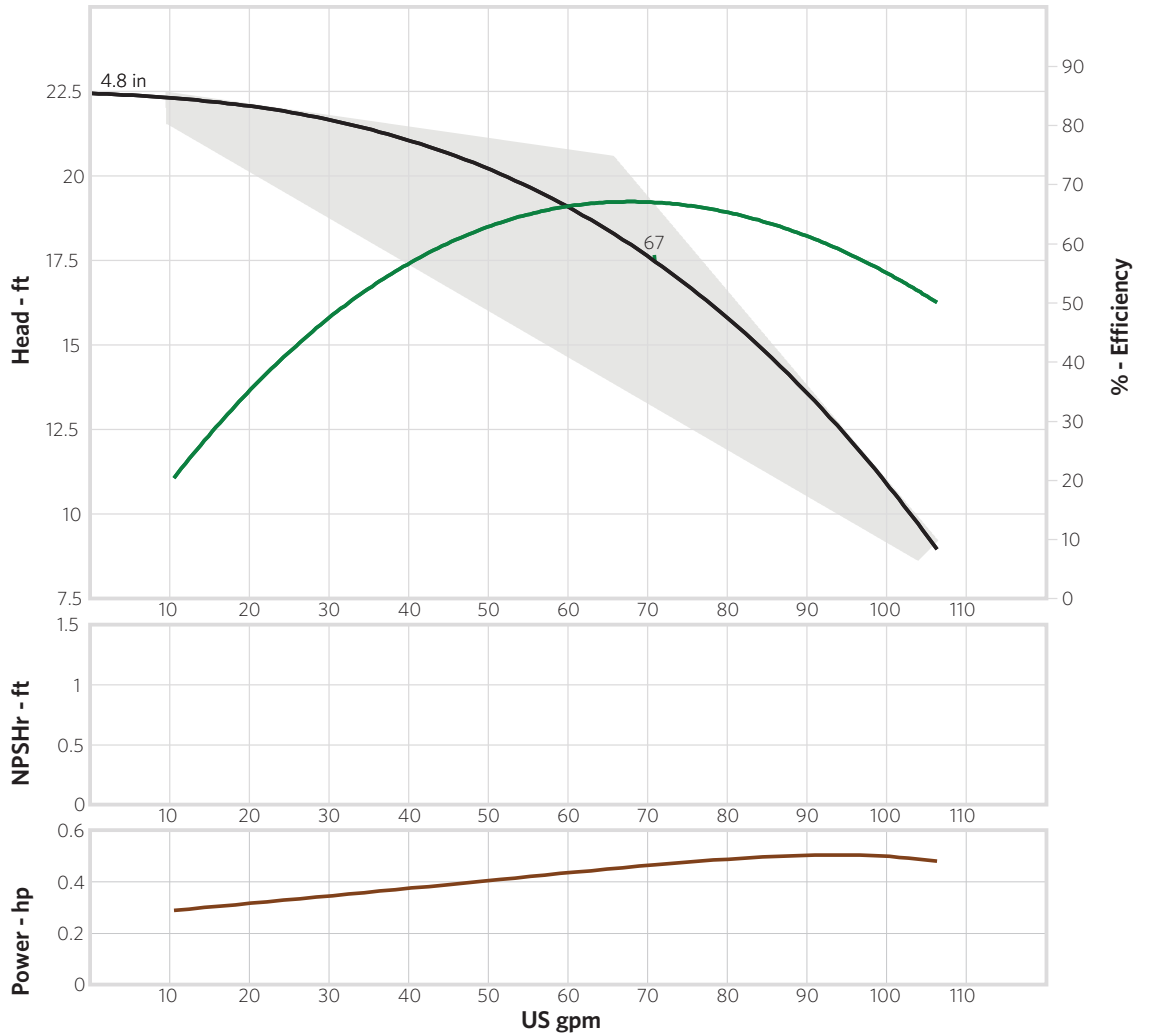
Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 Size: 0.75 hp
 Speed: 1800
 Frame: 56J

Pump Limits:

Temperature: ---
 Pressure: ---
 Sphere size: ---
 Power: ---
 Eye area: ---

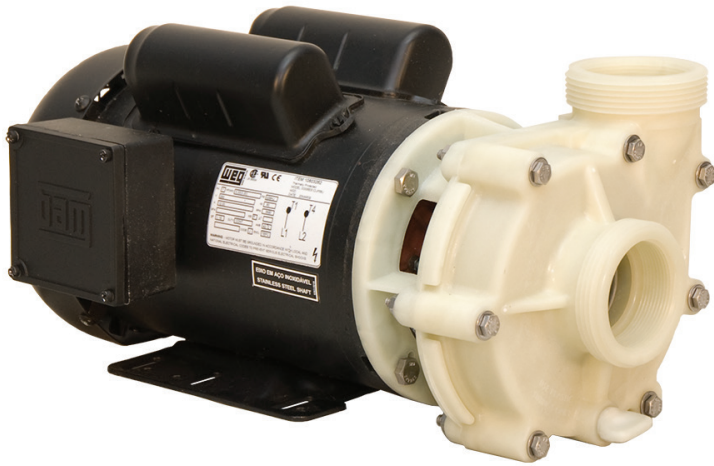
| ---- Data Point ---- | |
|------------------------|------------------------|
| Flow: | 70.8 US gpm |
| Head: | 17.5 ft |
| Eff: | 67% |
| Power: | 0.467 hp |
| NPSHr: | --- |
| ---- Design Curve ---- | |
| Shutoff head: | 22.5 ft |
| Shutoff dP: | 9.72 psi |
| Min flow: | --- |
| BEP: | 67% @ 70.8 US gpm |
| NOL power: | 0.504 hp @ 90.9 US gpm |



Performance Evaluation:

| Flow US gpm | Speed rpm | Head ft | Efficiency % | Power hp | NPSHr ft |
|----------------|--------------|------------|-----------------|-------------|-------------|
| 102 | 1750 | 10.3 | 53.4 | 0.493 | --- |
| 85 | 1750 | 14.7 | 63.2 | 0.496 | --- |
| 68 | 1750 | 17.9 | 66.9 | 0.459 | --- |
| 51 | 1750 | 20.1 | 63.3 | 0.409 | --- |
| 34 | 1750 | 21.4 | 51.2 | 0.357 | --- |

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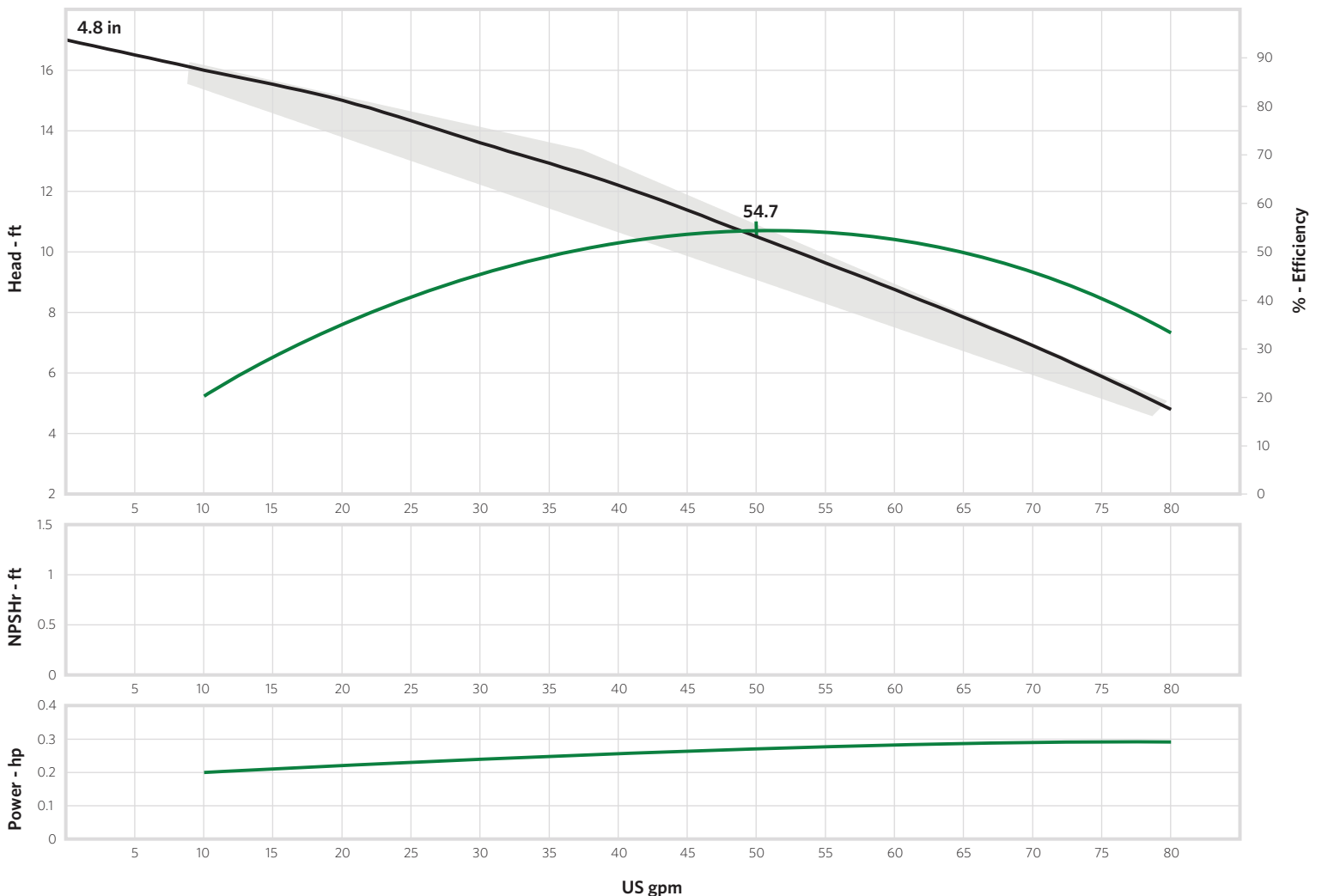
Performance Envelope

- 80 GPM
- 92' Head
- 55% Peak Efficiency

Advance® 4000 4 Pole Full / Minimum Diameter Performance Curve

Speed: 1750 rpm

Size: 4000.058S



Pump:

Size: 58S
 Type: Advance 4000
 Synch speed: 1800 rpm
 Curve:
 Specific Speeds:
 Dimensions:

Speed: 1750 rpm
 Dia: 4.8 in
 Impeller: 4000.058S
 Ns: ---
 Nss: ---
 Suction: ---
 Discharge: ---

Search Criteria:

Flow: --- Head: ---

Fluid:

Water
 SG: 1
 Viscosity: 1.105 cP
 NPSHa: ---

Temperature: 60 °F
 Vapor pressure: 0.2563 psi a
 Atm pressure: 14.7 psi a

Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve

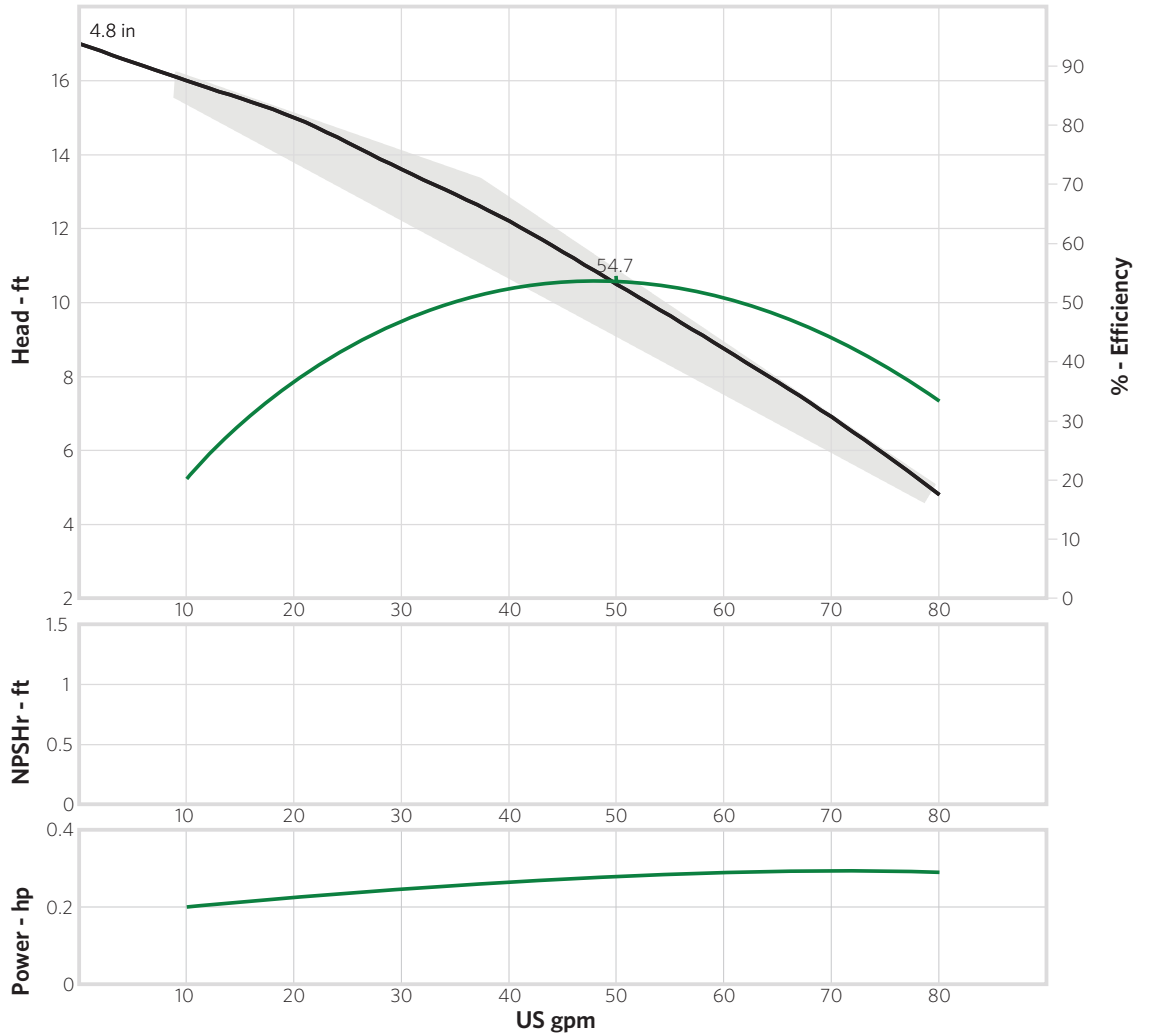
Size: 0.33 hp
 Speed: 1800
 Frame: 56J

Pump Limits:

Temperature: ---
 Pressure: ---
 Sphere size: ---

Power: ---
 Eye area: ---

| ---- Data Point ---- | |
|------------------------|----------------------|
| Flow: | 50 US gpm |
| Head: | 10.5 ft |
| Eff: | 54.7% |
| Power: | 0.242 hp |
| NPSHr: | --- |
| ---- Design Curve ---- | |
| Shutoff head: | 17 ft |
| Shutoff dP: | 7.36 psi |
| Min flow: | --- |
| BEP: | 54.7% @ 50 US gpm |
| NOL power: | 0.291 hp @ 80 US gpm |



Performance Evaluation:

| Flow US gpm | Speed rpm | Head ft | Efficiency % | Power hp | NPSHr ft |
|----------------|--------------|------------|-----------------|-------------|-------------|
| 76.8 | 1750 | 5.47 | 36.2 | 0.29 | --- |
| 64 | 1750 | 8.01 | 45.1 | 0.285 | --- |
| 51.2 | 1750 | 10.3 | 53.8 | 0.247 | --- |
| 38.4 | 1750 | 12.4 | 46.2 | 0.259 | --- |
| 25.6 | 1750 | 14.2 | 38.9 | 0.233 | --- |