

The Advance® 4000 design meets requirements of median flow 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.

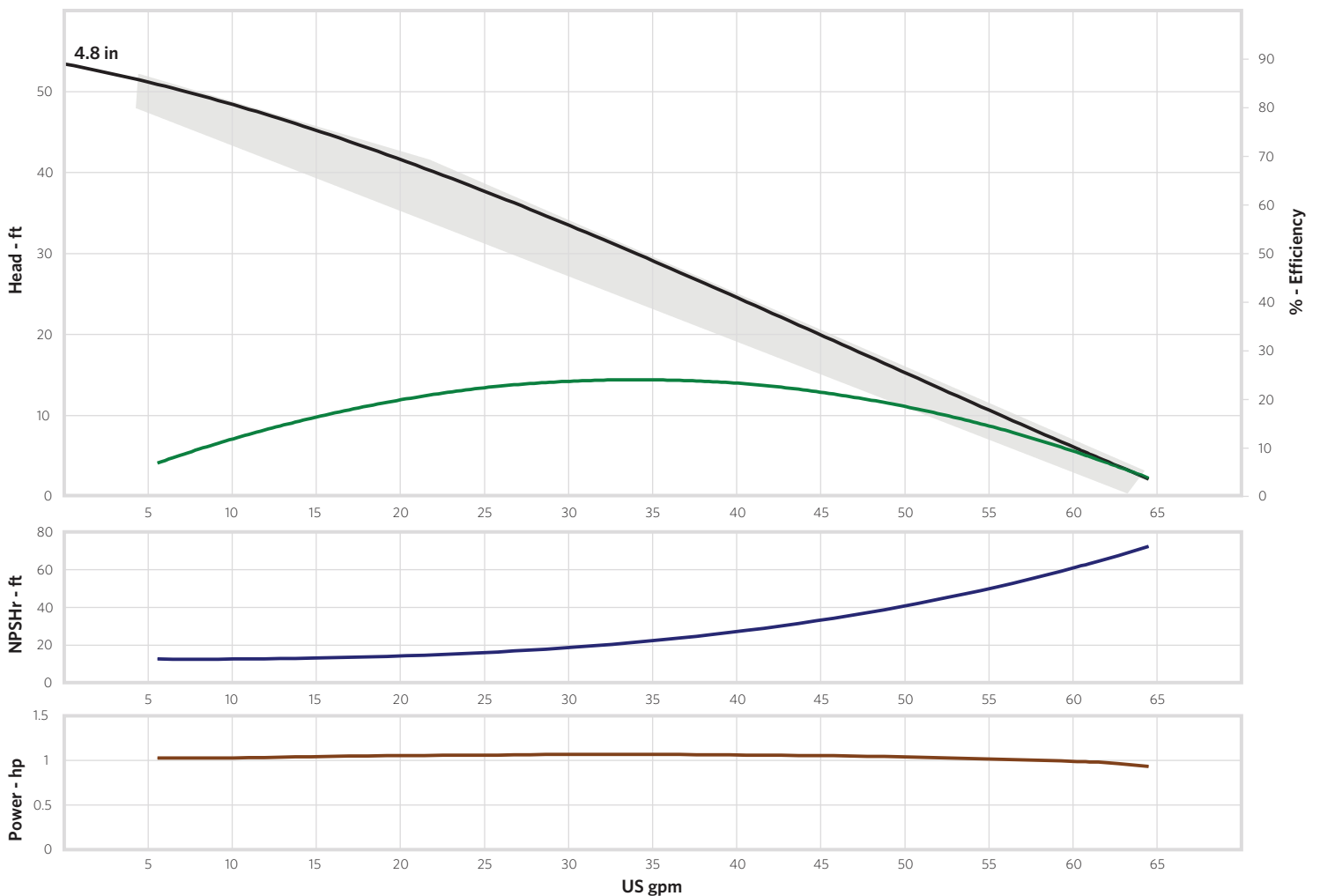
Performance Envelope

- 64 GPM
- 52' Head

Advance® 4000 2 Pole Full / Minimum Diameter Performance Curve

Speed: 3450 rpm

Size: 4000.052



Pump:

Size: 52
 Type: Advance 4000
 Synch speed: 3600 rpm
 Curve:
 Specific Speeds:
 Dimensions:

Speed: 3450 rpm
 Dia: 4.8 in
 Impeller: 4000.052
 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: 1.5 hp
 Speed: 3600
 Frame: 56J

Pump Limits:

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

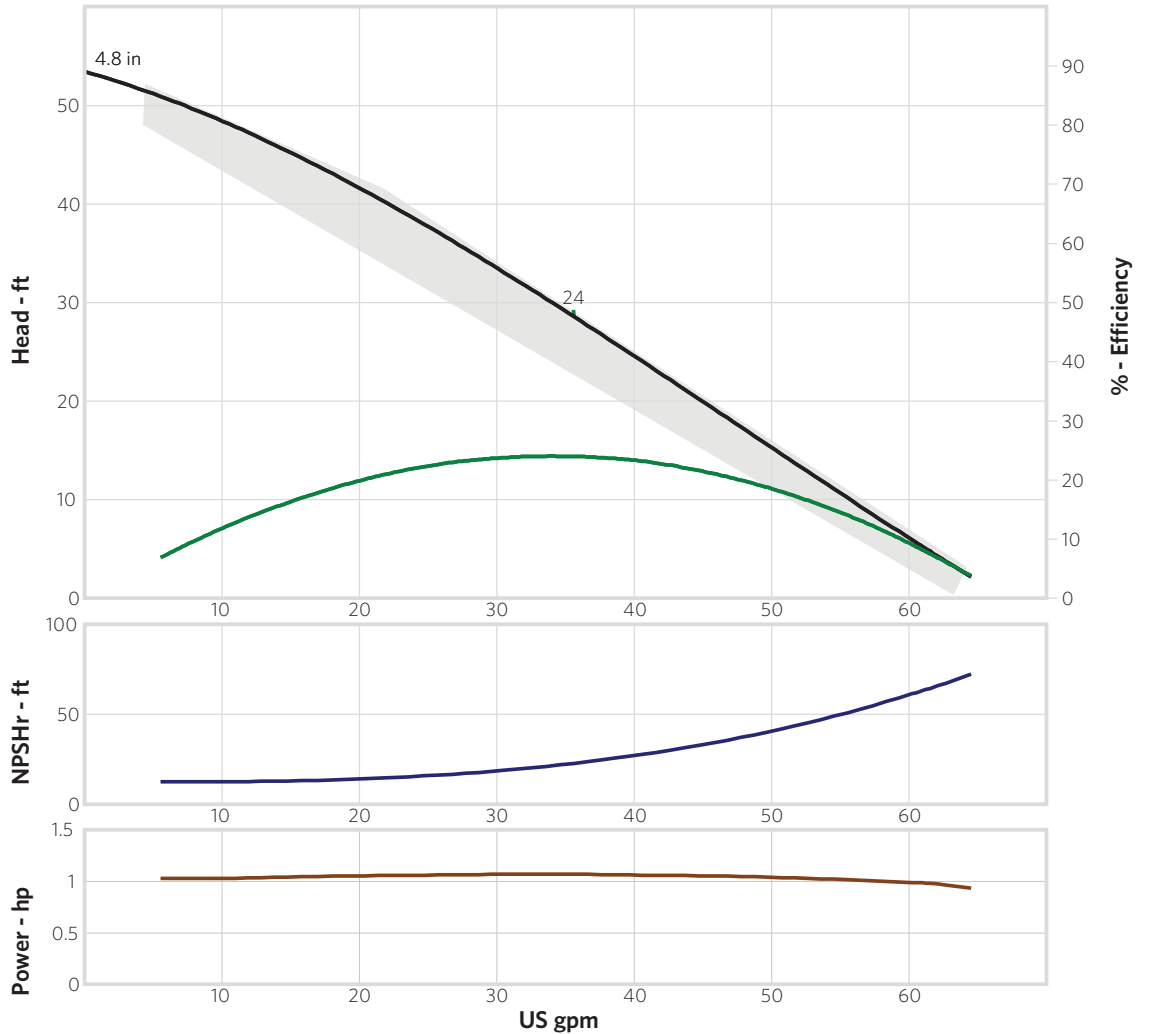
Power: ---
 Eye area: ---

---- Data Point ----

Flow: 35.6 US gpm
 Head: 28.6 ft
 Eff: 24%
 Power: 1.07 hp
 NPSHr: 22.9 ft

---- Design Curve ----

Shutoff head: 53.4 ft
 Shutoff dP: 23.1 psi
 Min flow: ---
 BEP: 24% @ 35.6 US gpm
 NOL power: 1.07 hp @ 30.5 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
61.9	3450	4.43	7.1	0.976	65.6
51.6	3450	13.8	17.3	1.03	43.7
41.3	3450	23.4	22.9	1.06	28.7
31	3450	32.6	23.8	1.07	19.4
20.6	3450	41.1	20.2	1.06	14.4



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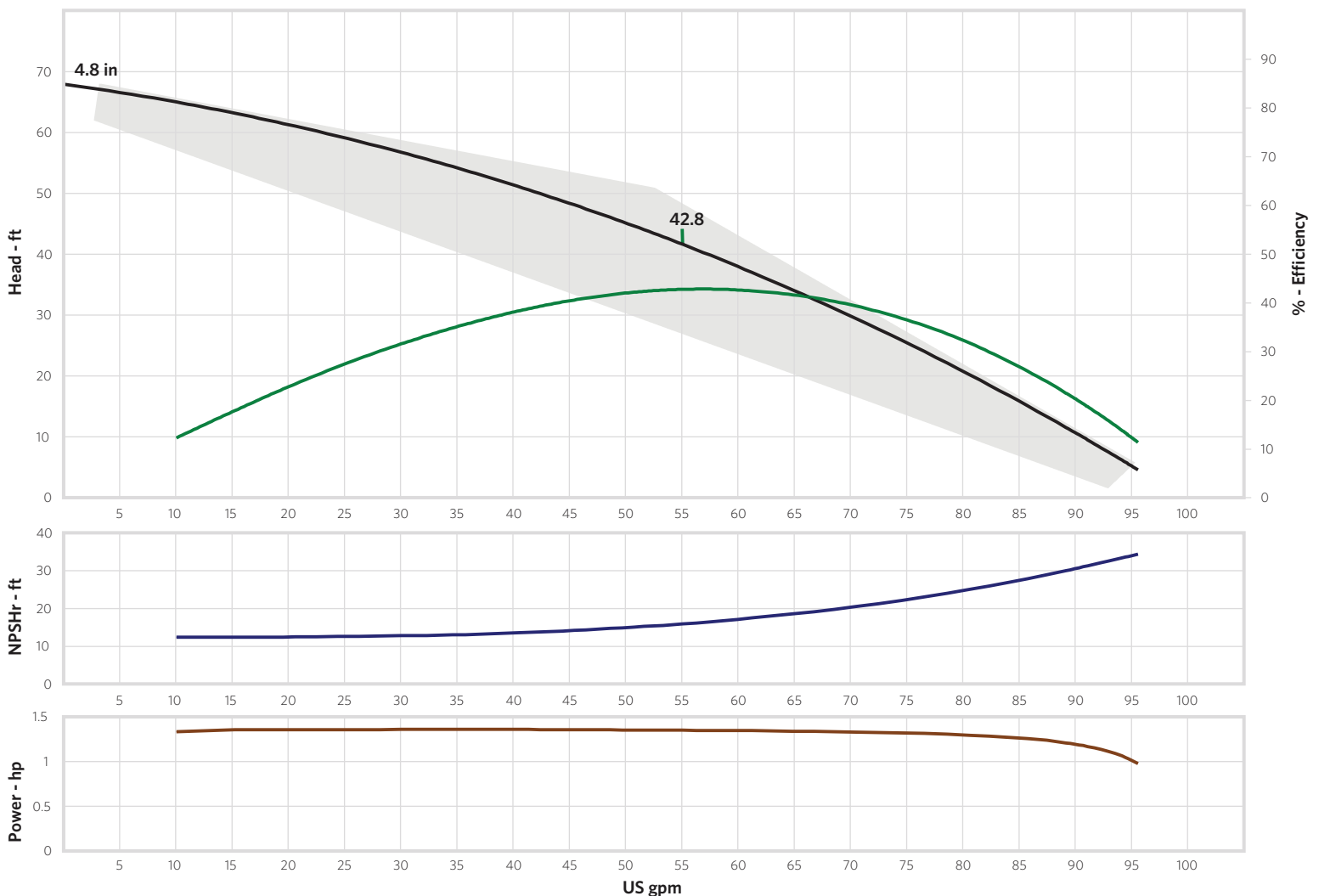
Performance Envelope

- 96 GPM
- 69' Head
- 49% Peak Efficiency

Advance® 4000 2 Pole Full / Minimum Diameter Performance Curve

Speed: 3450 rpm

Size: 4000.053



Pump:

Size: 53
 Type: Advance 4000
 Synch speed: 3600 rpm
 Curve:
 Specific Speeds:
 Dimensions:
 Speed: 3450 rpm
 Dia: 4.8 in
 Impeller: 4000.053
 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

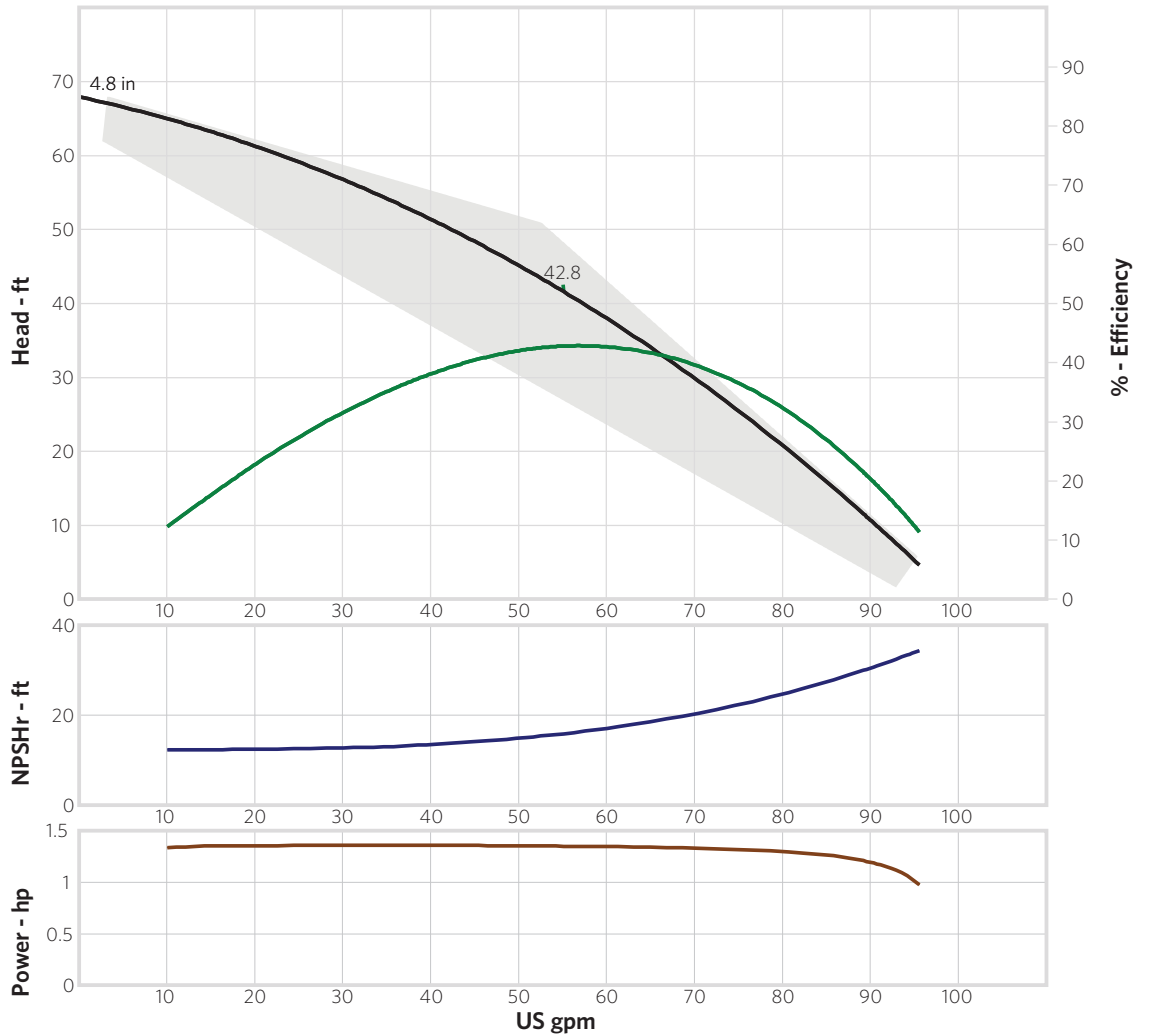
Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 Size: 1.5 hp
 Speed: 3600
 Frame: 56J

Pump Limits:

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

---- Data Point ----	
Flow:	55 US gpm
Head:	41.6 ft
Eff:	42.8%
Power:	1.35 hp
NPSHr:	15.9 ft
---- Design Curve ----	
Shutoff head:	67.9 ft
Shutoff dP:	29.4 psi
Min flow:	---
BEP:	42.8% @ 55 US gpm
NOL power:	1.36 hp @ 35.7 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
91.7	3450	8.84	17.7	1.15	31.7
76.4	3450	24	34.9	1.31	23.2
61.1	3450	37.1	42.5	1.35	17.5
45.8	3450	47.8	40.7	1.36	14.3
30.6	3450	56.4	32	1.36	12.8



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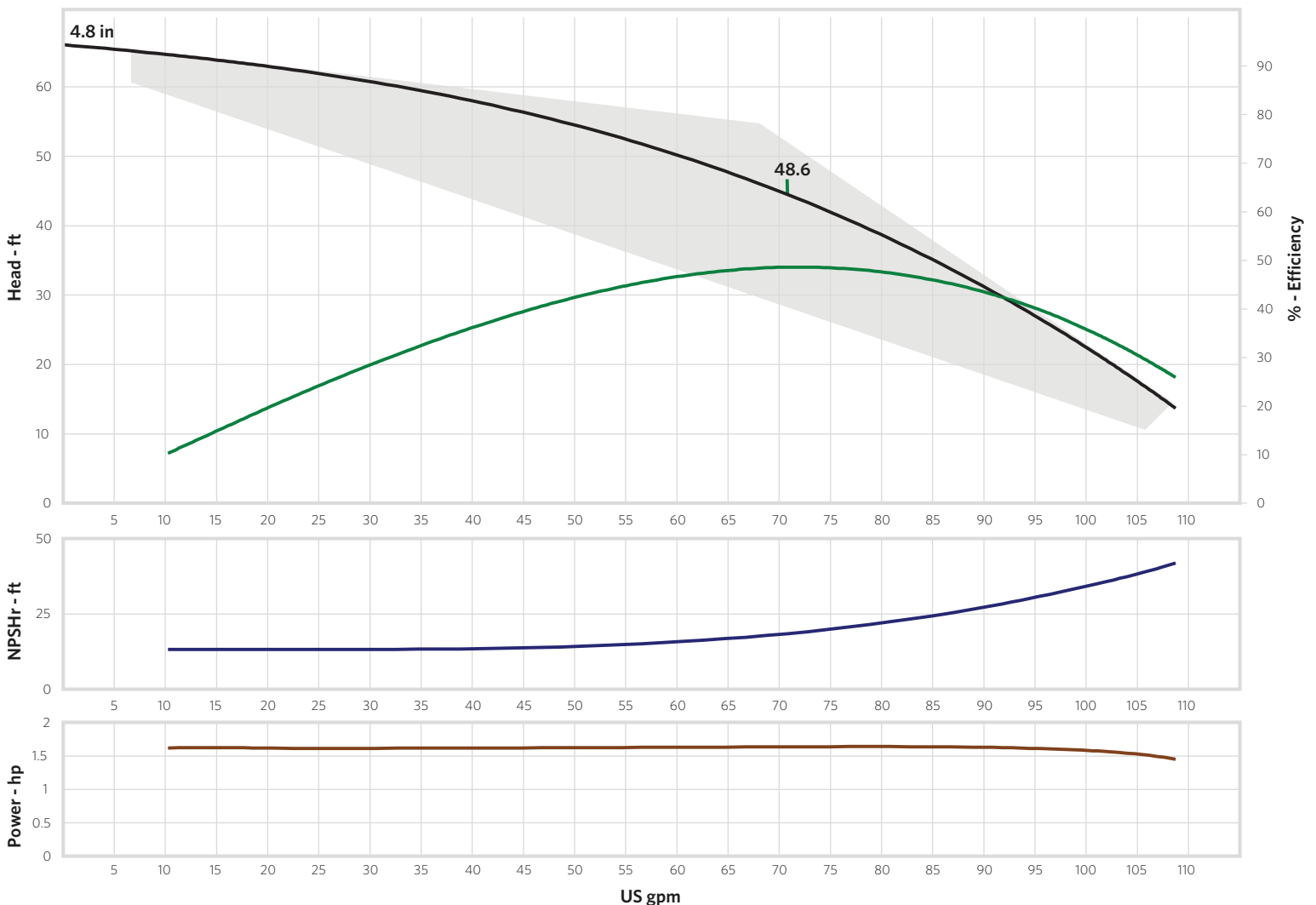
Performance Envelope

- 108 GPM
- 67' Head
- 54% Peak Efficiency

Advance® 4000 2 Pole Full / Minimum Diameter Performance Curve

Speed: 3450 rpm

Size: 4000.054



Pump:

Size: 54
 Type: Advance 4000
 Synch speed: 3600 rpm
 Curve:
 Specific Speeds:
 Dimensions:
 Speed: 3450 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: 2 hp
 Speed: 3600
 Frame: 56J

Pump Limits:

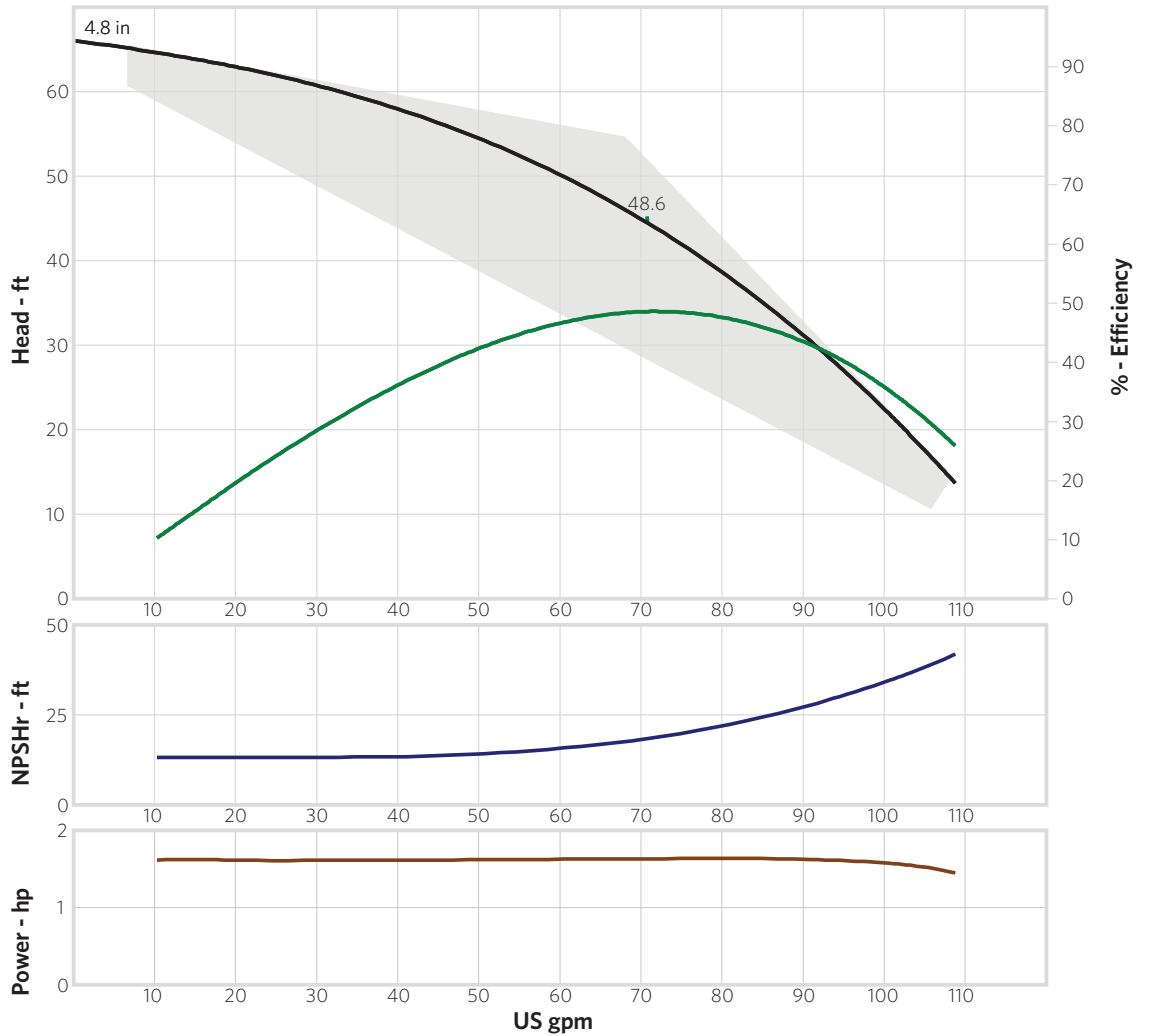
Temperature: ---
 Pressure: ---
 Sphere size: ---
 Power: ---
 Eye area: ---

---- Data Point ----

Flow: 70.8 US gpm
 Head: 44.5 ft
 Eff: 48.6%
 Power: 1.64 hp
 NPSHr: 18.5 ft

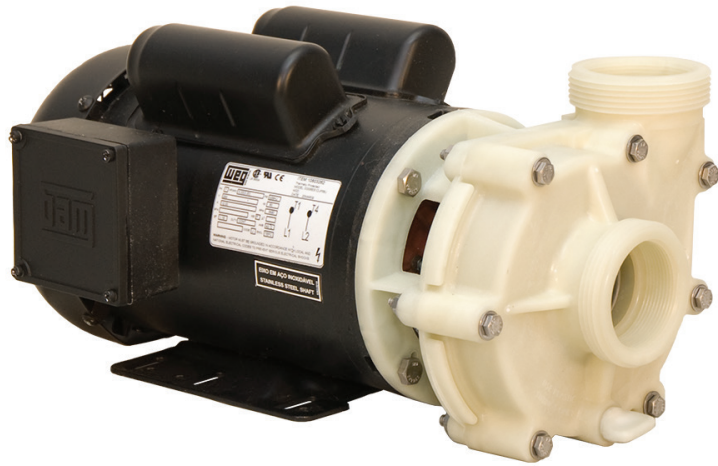
---- Design Curve ----

Shutoff head: 66.1 ft
 Shutoff dP: 28.6 psi
 Min flow: ---
 BEP: 48.6% @ 70.8 US gpm
 NOL power: 1.64 hp @ 80.8 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
104	3450	18.5	31.6	1.54	37.5
87	3450	33.4	44.7	1.63	25.7
69.6	3450	45.1	48.4	1.64	18.2
52.2	3450	53.6	43.4	1.62	14.6
34.8	3450	59.4	32.2	1.62	13.4



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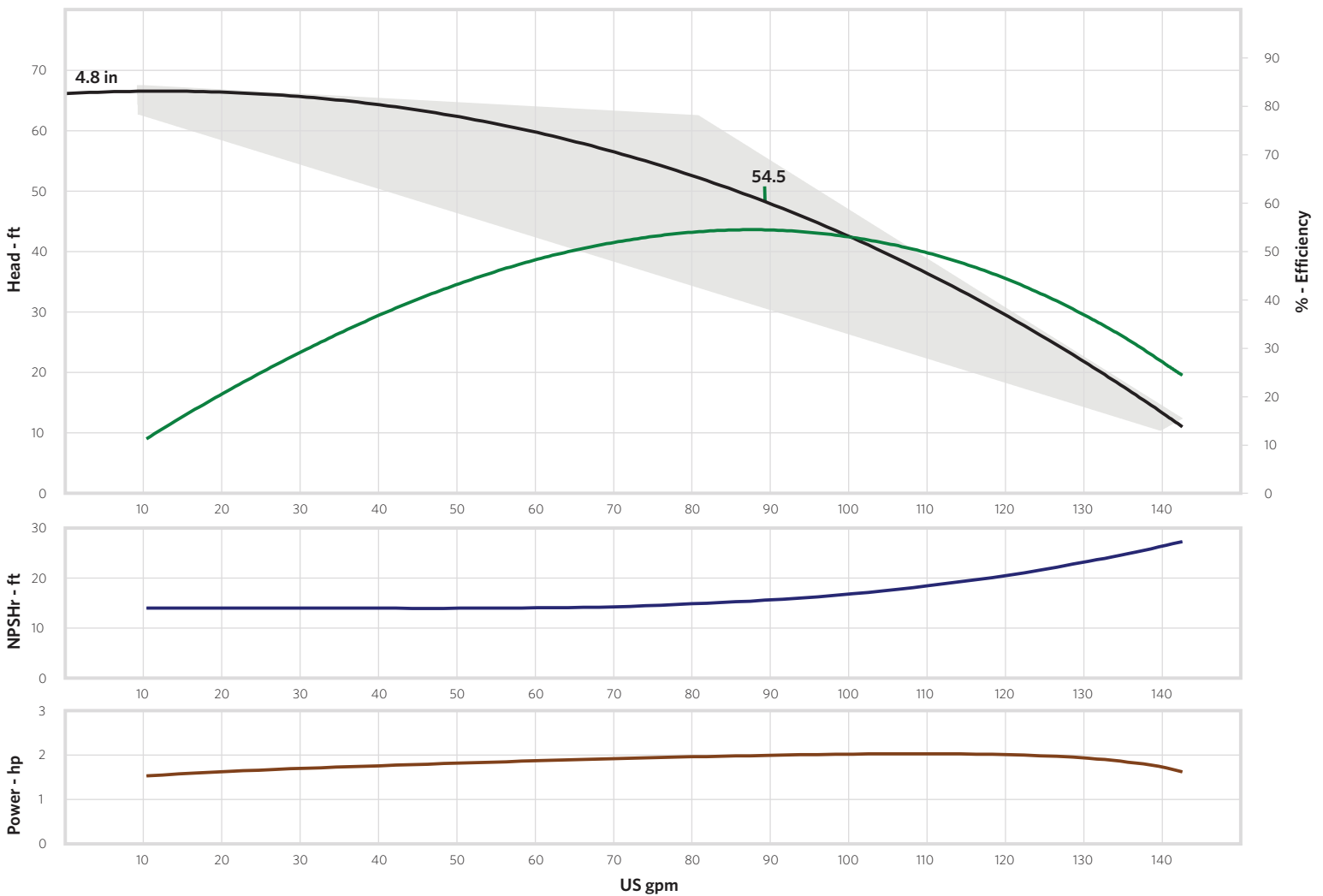
Performance Envelope

- 142 GPM
- 77' Head
- 60% Peak Efficiency

Advance® 4000 2 Pole Full / Minimum Diameter Performance Curve

Speed: 3450 rpm

Size: 4000.055



Pump:

Size: 55
 Type: Advance 4000
 Synch speed: 3600 rpm
 Curve:
 Specific Speeds:
 Dimensions:
 Speed: 3450 rpm
 Dia: 4.8 in
 Impeller: 4000.055
 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: 3 hp
 Speed: 3600
 Frame: 56J

Pump Limits:

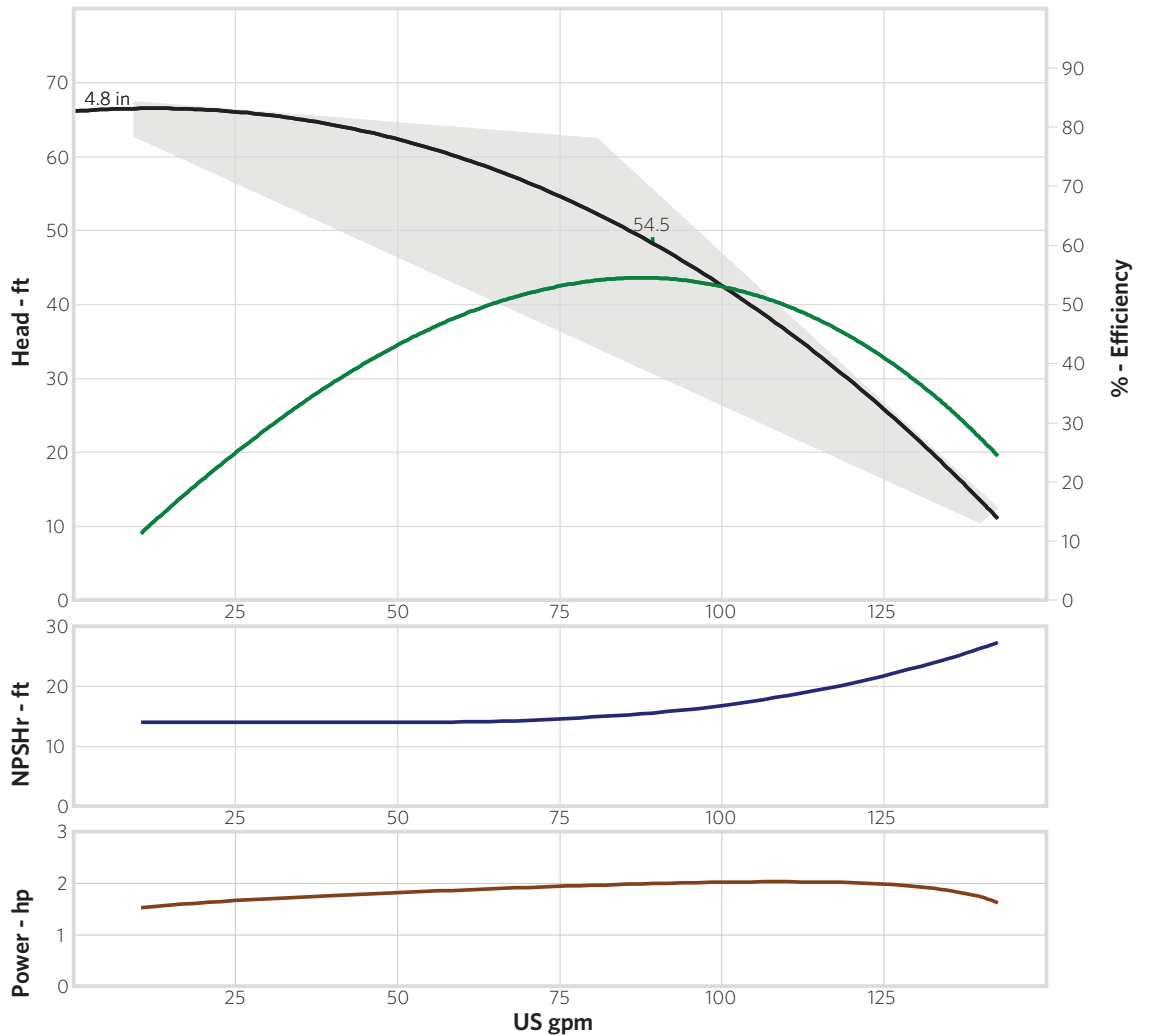
Temperature: ---
 Pressure: ---
 Sphere size: ---
 Power: ---
 Eye area: ---

---- Data Point ----

Flow: 89.3 US gpm
 Head: 48.3 ft
 Eff: 54.5%
 Power: 2 hp
 NPSHr: 15.6 ft

---- Design Curve ----

Shutoff head: 66.1 ft
 Shutoff dP: 28.6 psi
 Min flow: ---
 BEP: 54.5% @ 89.3 US gpm
 NOL power: 2.03 hp @ 110 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
137	3450	15.9	30.3	1.81	25.4
114	3450	33.6	47.6	2.02	19.3
91.2	3450	47.2	54.2	2	15.8
68.4	3450	57	51.3	1.92	14.3
45.6	3450	63.2	40.4	1.8	14



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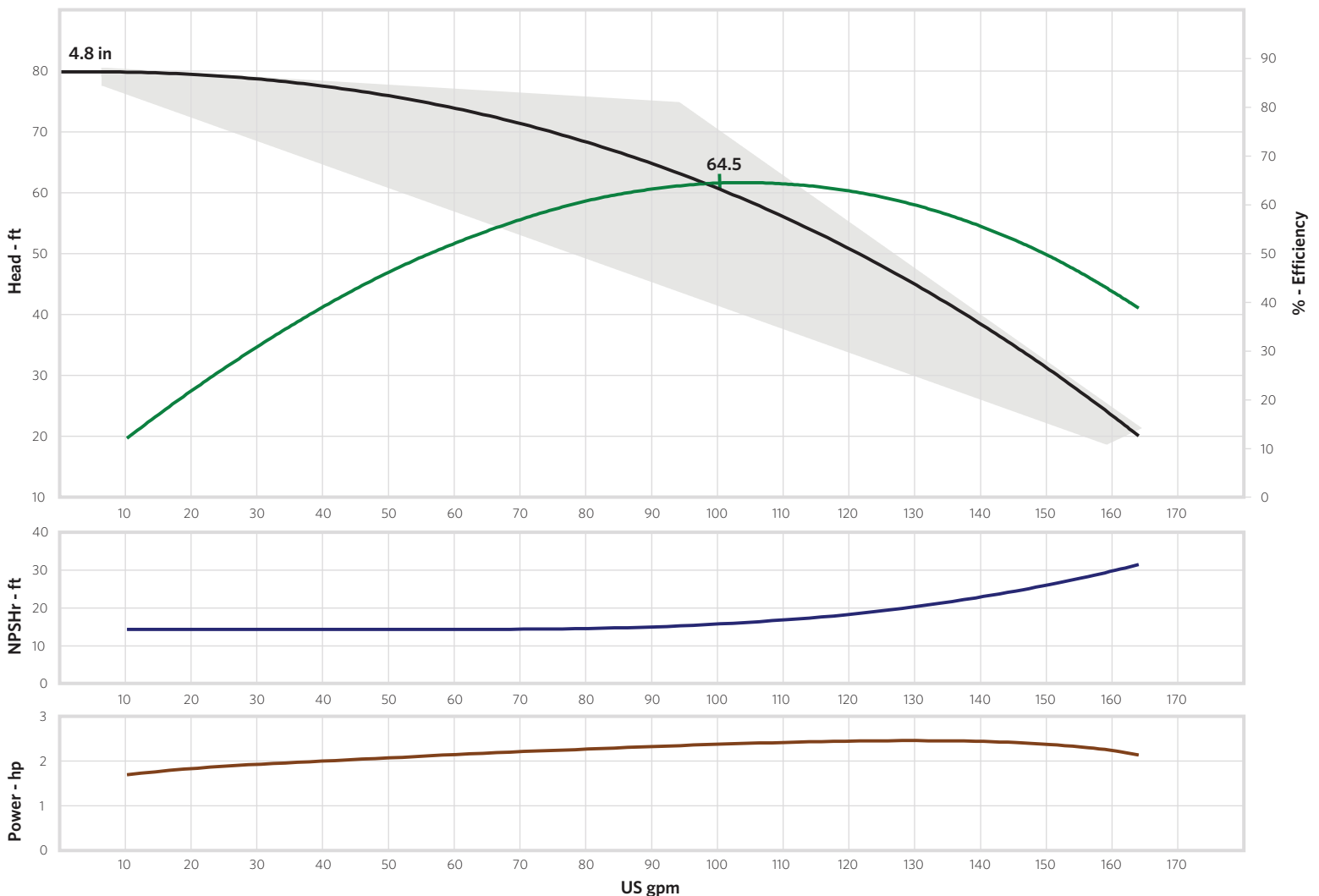
Performance Envelope

- 162 GPM
- 80' Head
- 74% Peak Efficiency

Advance® 4000 2 Pole Full / Minimum Diameter Performance Curve

Speed: 3450 rpm

Size: 4000.056



Pump:

Size: 56
 Type: Advance 4000
 Synch speed: 3600 rpm
 Speed: 3450 rpm
 Dia: 4.8 in
 Curve:
 Impeller: 4000.056
 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

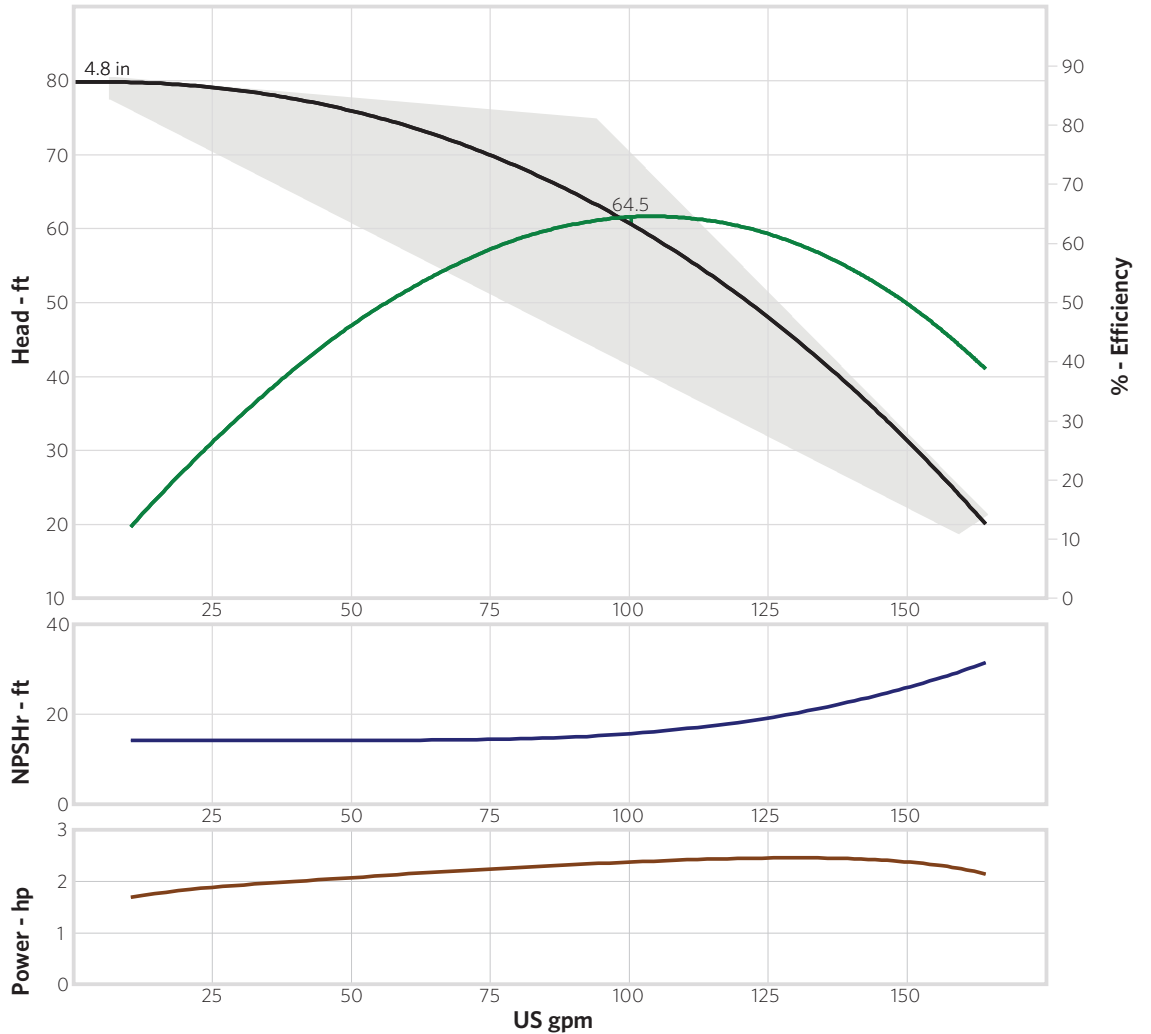
Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 Size: 3 hp
 Speed: 3600
 Frame: 56J

Pump Limits:

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

---- Data Point ----	
Flow:	100 US gpm
Head:	60.6 ft
Eff:	64.5%
Power:	2.38 hp
NPSHr:	15.8 ft
---- Design Curve ----	
Shutoff head:	79.8 ft
Shutoff dP:	34.6 psi
Min flow:	---
BEP:	64.5% @ 100 US gpm
NOL power:	2.46 hp @ 130 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
157	3450	25.8	44.6	2.29	28.6
131	3450	44.3	59.6	2.46	20.6
105	3450	58.4	64.4	2.4	16.3
78.6	3450	68.7	60.3	2.26	14.6
52.4	3450	75.4	47.6	2.09	14.3



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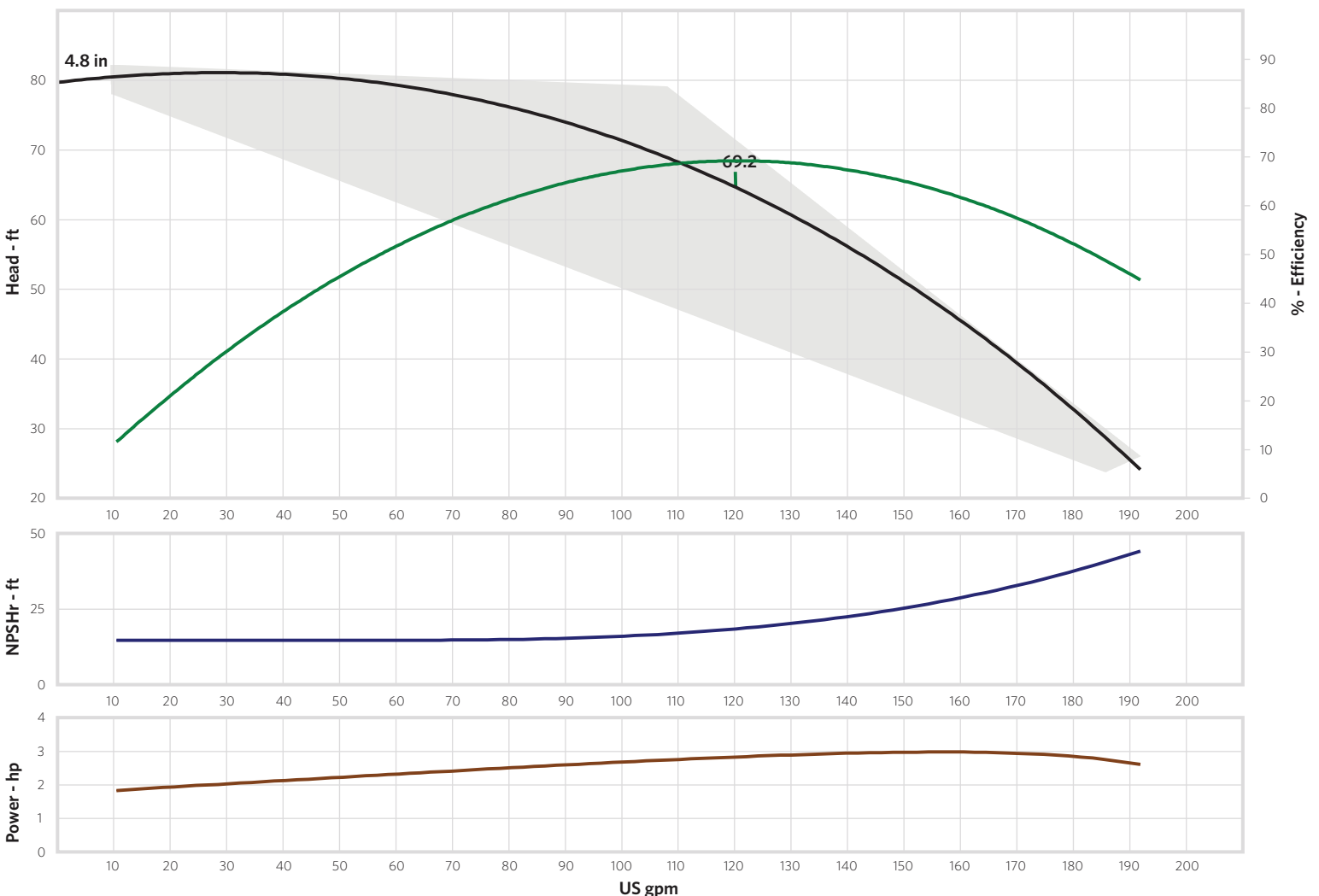
Performance Envelope

- 182 GPM
- 80' Head
- 78% Peak Efficiency

Advance® 4000 2 Pole Full / Minimum Diameter Performance Curve

Speed: 3450 rpm

Size: 4000.057



Pump:

Size: 57
 Type: Advance 4000
 Synch speed: 3600 rpm
 Curve:
 Specific Speeds:
 Dimensions:
 Speed: 3450 rpm
 Dia: 4.8 in
 Impeller: 4000.057
 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

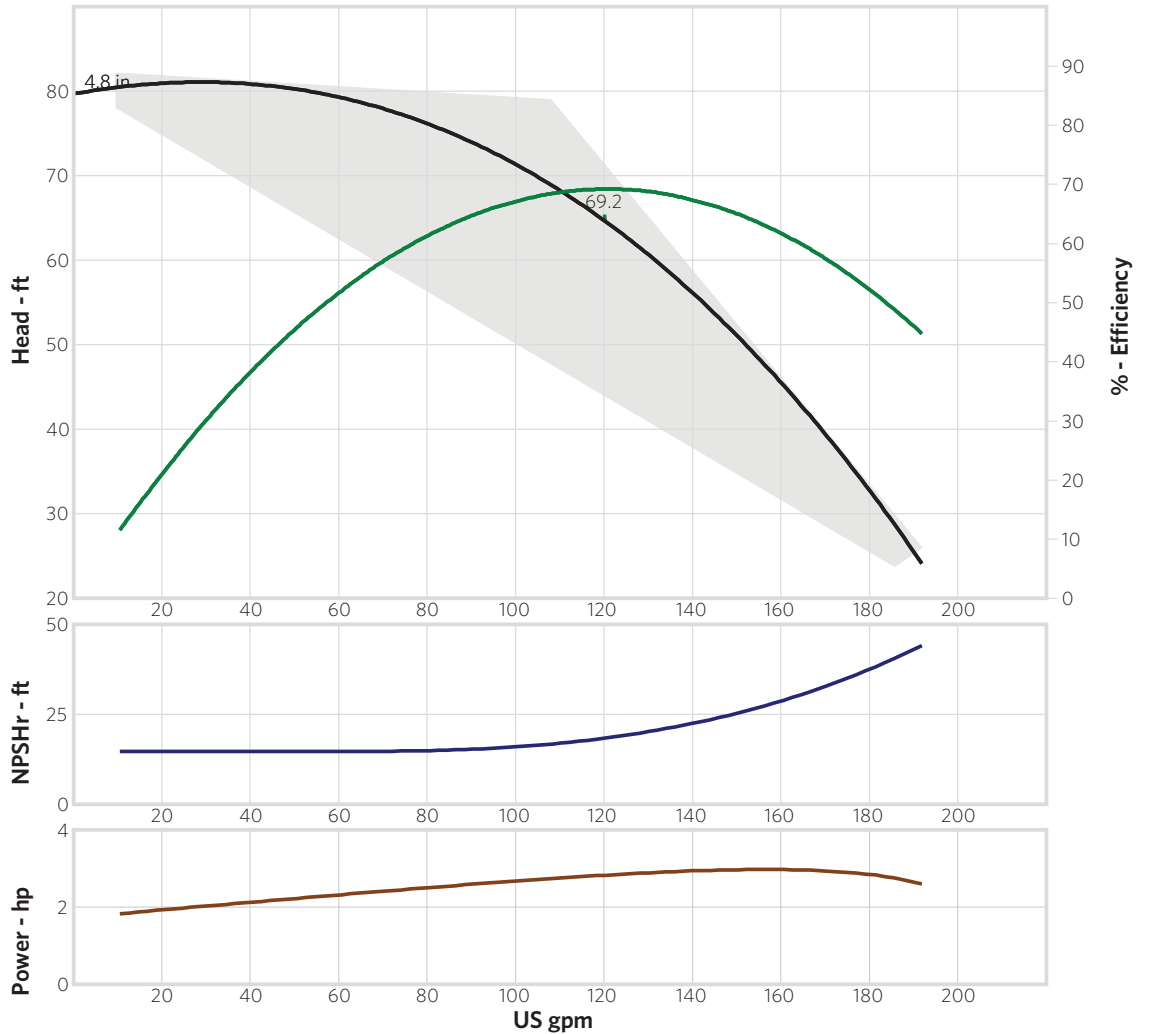
Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 Size: 3 hp
 Speed: 3600
 Frame: 56J

Pump Limits:

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

---- Data Point ----	
Flow:	120 US gpm
Head:	64.7 ft
Eff:	69.2%
Power:	2.83 hp
NPSHr:	18.5 ft
---- Design Curve ----	
Shutoff head:	79.7 ft
Shutoff dP:	34.5 psi
Min flow:	---
BEP:	69.2% @ 120 US gpm
NOL power:	2.98 hp @ 161 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
184	3450	29.8	49.7	2.78	39.8
153	3450	49.4	64	2.98	26.4
122	3450	63.9	69.1	2.85	18.8
91.8	3450	73.5	65.2	2.61	15.5
61.2	3450	79.2	52.4	2.34	14.7



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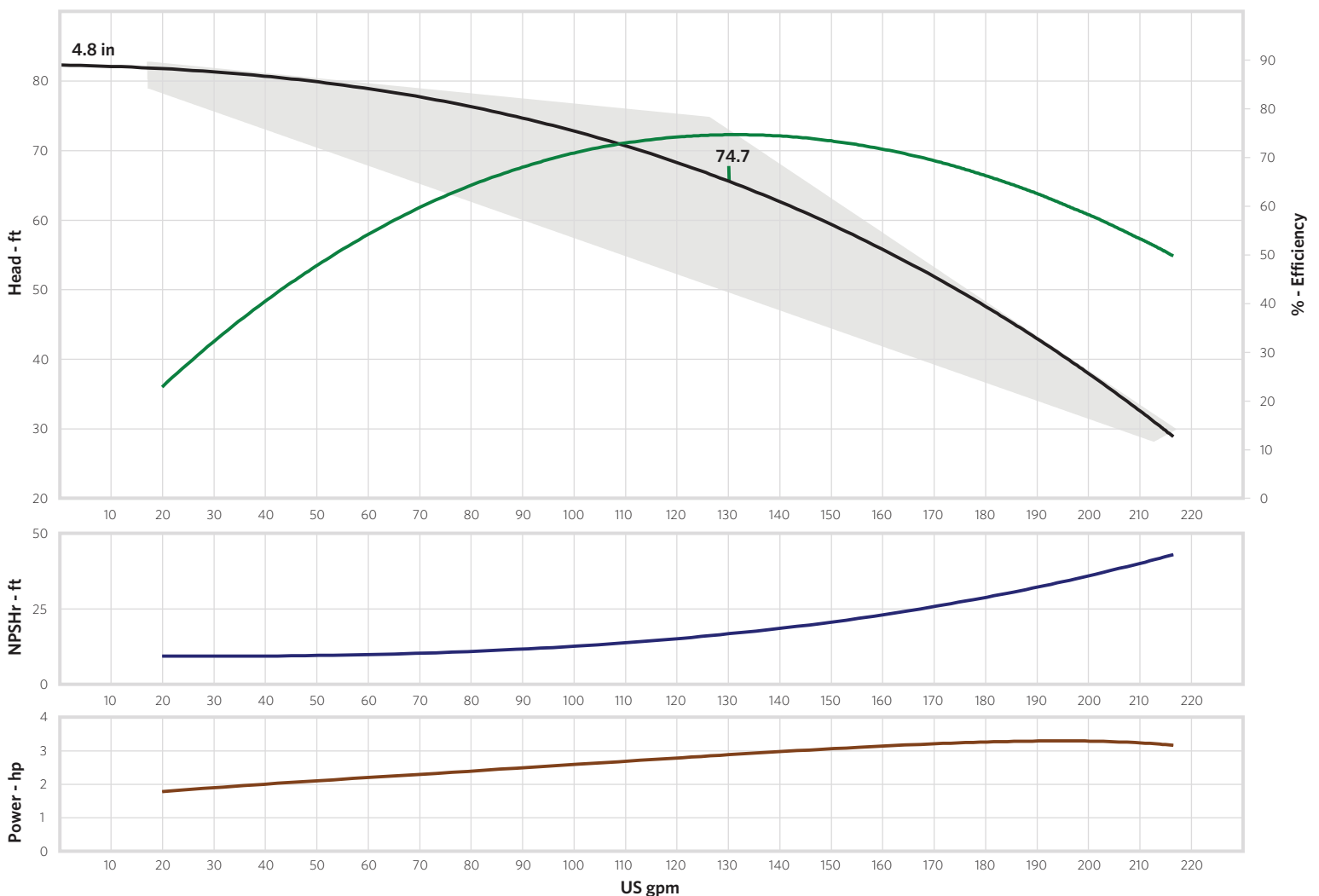
Performance Envelope

- 214 GPM
- 82' Head
- 84% Peak Efficiency

Advance® 4000 2 Pole Full / Minimum Diameter Performance Curve

Speed: 3450 rpm

Size: 4000.058



Pump:

Size: 58
 Type: Advance 4000
 Synch speed: 3600 rpm
 Curve:
 Specific Speeds:
 Dimensions:
 Speed: 3450 rpm
 Dia: 4.8 in
 Impeller: 40000.058
 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

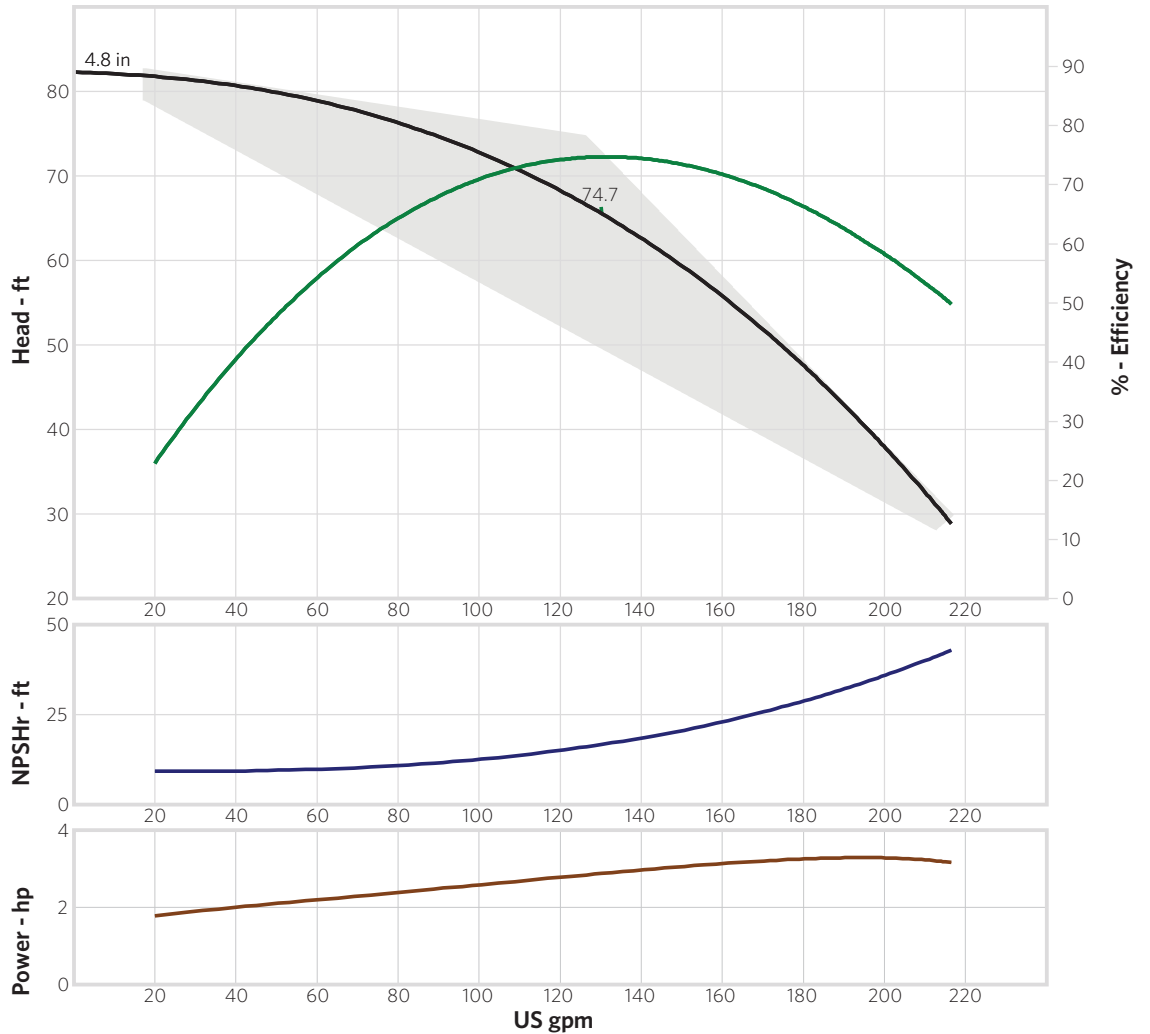
Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 Size: 5 hp
 Speed: 3600
 Frame: 56C

Pump Limits:

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

---- Data Point ----	
Flow:	130 US gpm
Head:	65.6 ft
Eff:	74.7%
Power:	2.88 hp
NPSHr:	16.8 ft
---- Design Curve ----	
Shutoff head:	82.3 ft
Shutoff dP:	35.6 psi
Min flow:	---
BEP:	74.7% @ 130 US gpm
NOL power:	3.3 hp @ 196 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
208	3450	33.6	54.3	3.25	39.3
173	3450	50.6	68.5	3.23	26.7
138	3450	63.2	74.4	2.96	18.2
104	3450	71.9	71.6	2.63	13.1
69.2	3450	77.8	59.1	2.29	10.3

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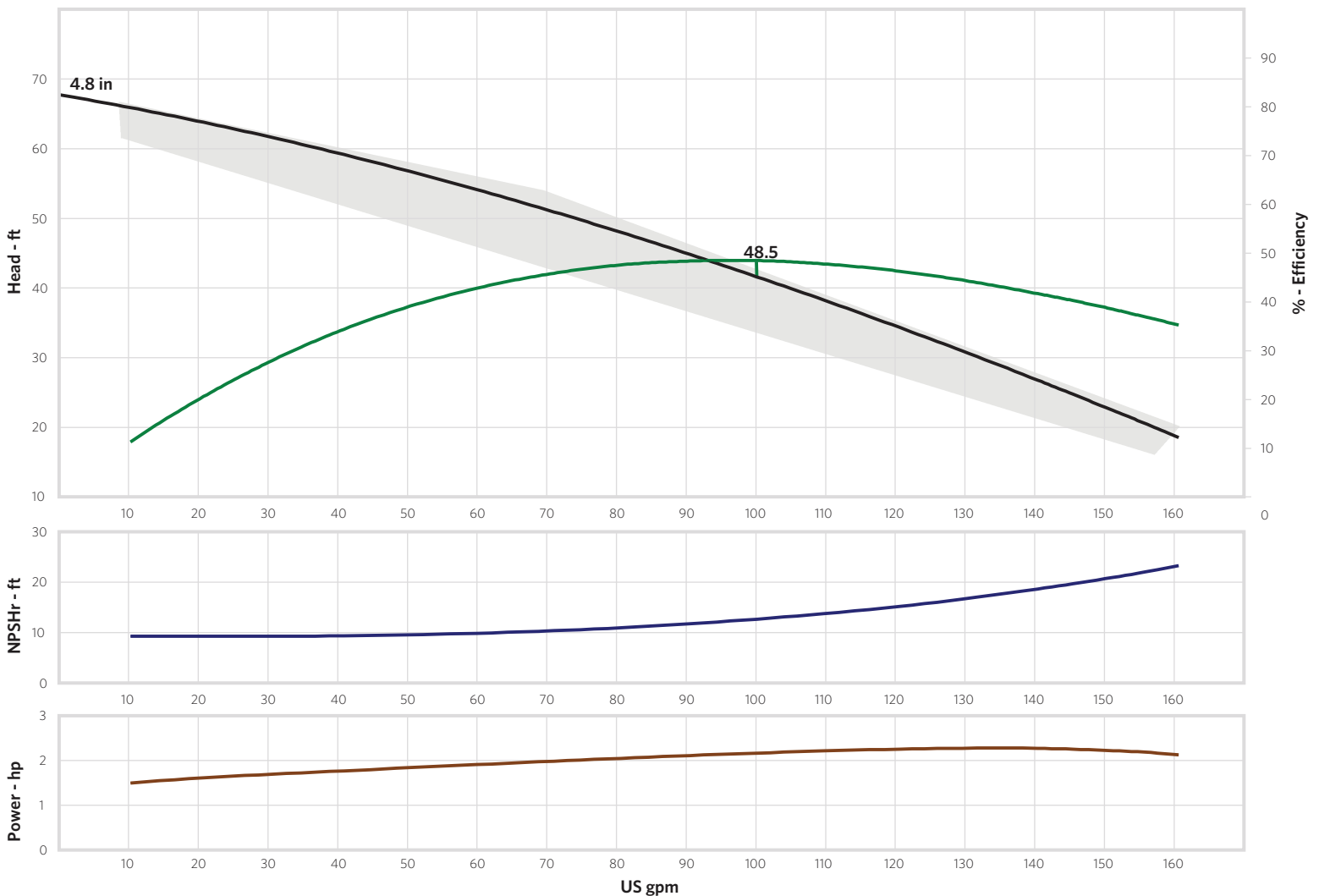
Performance Envelope

- 161 GPM
- 68' Head
- 55% Peak Efficiency

Advance® 4000 2 Pole Full / Minimum Diameter Performance Curve

Speed: 3450 rpm

Size: 4000.058S



Pump:

Size: 58S
 Type: Advance 4000
 Synch speed: 3600 rpm
 Speed: 3450 rpm
 Dia: 4.8 in
 Curve:
 Impeller: 4000.058S
 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

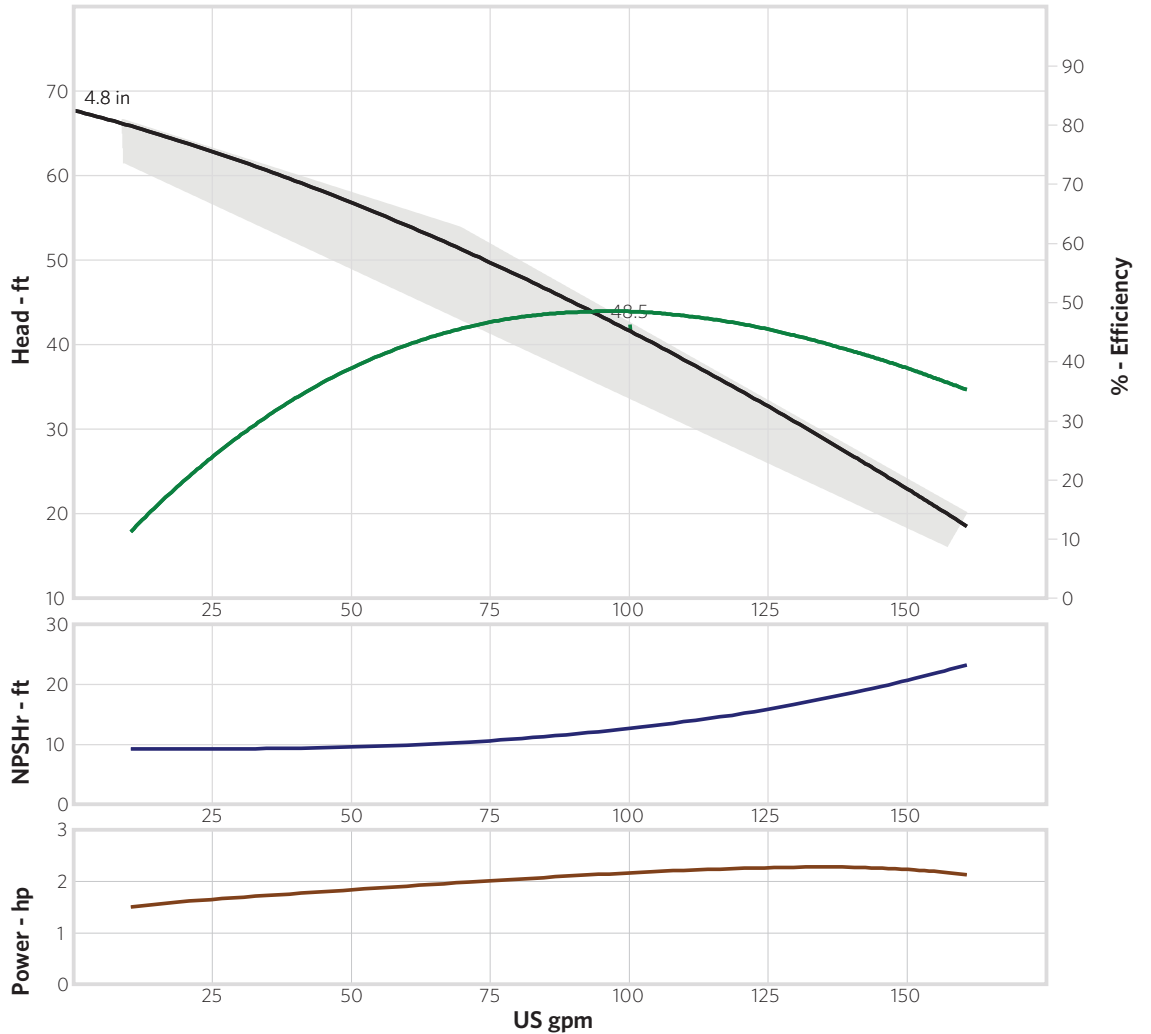
Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 Size: 3 hp
 Speed: 3600
 Frame: 56J

Pump Limits:

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

---- Data Point ----	
Flow:	100 US gpm
Head:	41.6 ft
Eff:	48.5%
Power:	2.17 hp
NPSHr:	12.7 ft
---- Design Curve ----	
Shutoff head:	67.8 ft
Shutoff dP:	29.3 psi
Min flow:	---
BEP:	48.5% @ 100 US gpm
NOL power:	2.28 hp @ 130 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
154	3450	21.3	37.5	2.2	21.6
128	3450	31.6	44.8	2.27	16.4
102	3450	40.9	48.4	2.18	12.9
76.8	3450	49.2	46.9	2.03	10.8
51.2	3450	56.4	39	1.85	9.67