

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: 5.5SS50 (1 stage)
 Type: Submersible
 Synch speed: 3450 rpm
 Curve: 5.5SS50
 Specific Speeds:
 Dimensions:
 Speed: 3450 rpm
 Dia: 4 in
 Impeller:
 Ns: 3450
 Nss: ---
 Suction: --- in
 Discharge: --- in

Pump Limits:

Temperature: 140 °F
 Pressure: 540 psi g
 Sphere size: 0.125 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

Flow: --- US gpm
 Head: --- ft

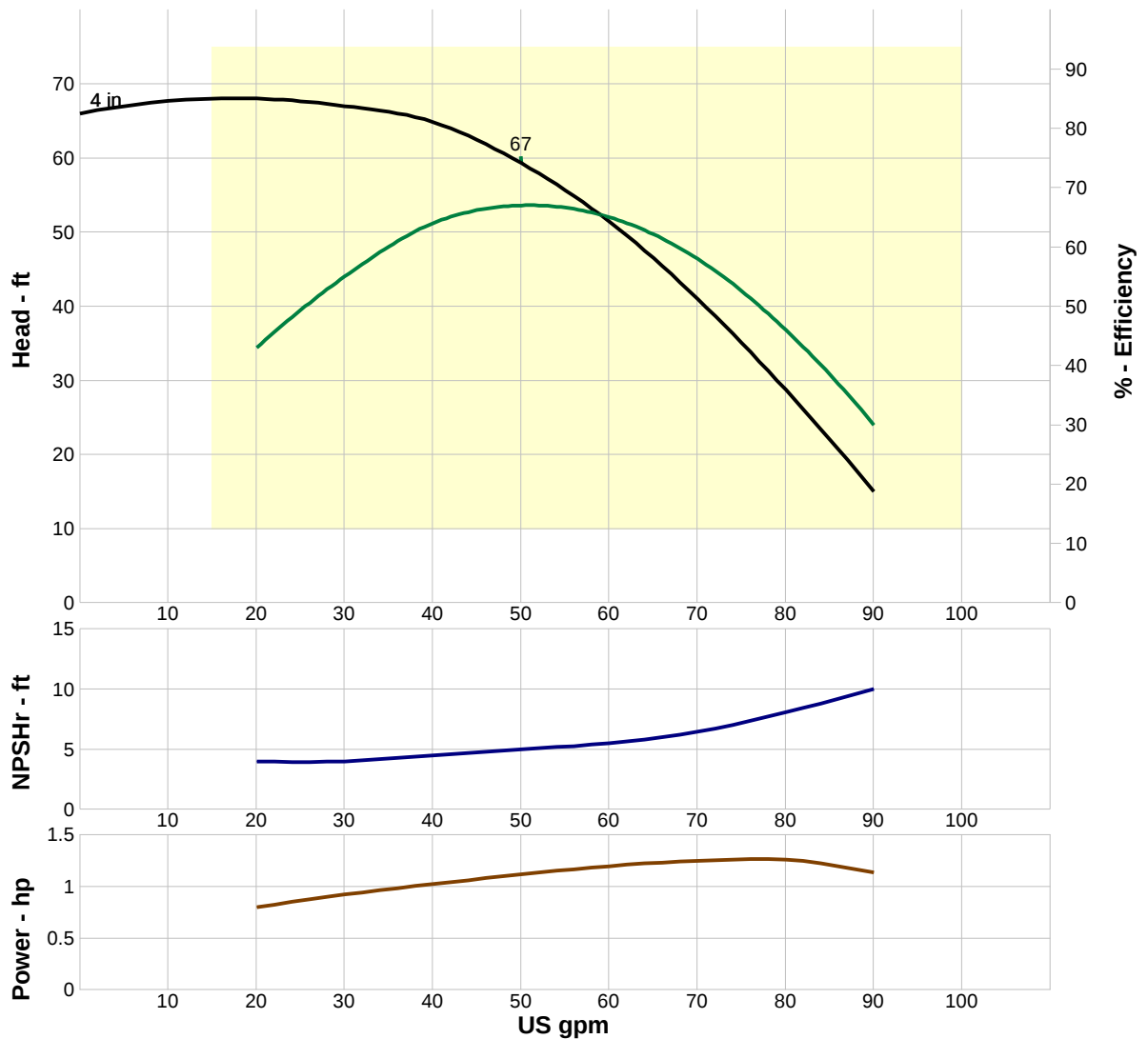
Fluid:

Water
 Density: 62.25 lb/ft³
 Viscosity: 1.105 cP
 NPSHa: --- ft
 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
 --- hp
 Speed: ---
 Frame: ---

---- Data Point ----	
Flow:	50 US gpm
Head:	59.3 ft
Eff:	67%
Power:	1.12 hp
NPSHr:	5 ft
---- Design Curve ----	
Shutoff head:	66 ft
Shutoff dP:	28.5 psi
Min flow:	10 US gpm
BEP:	67% @ 50 US gpm
NOL power:	1.26 hp @ 80 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
86.4	3450	19.9	35.8	1.18	9.3
72	3450	38.5	55.6	1.25	6.78
57.6	3450	53.3	65.5	1.18	5.38
43.2	3450	63.1	65	1.05	4.66
28.8	3450	67.1	53.6	0.908	4