

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 8"5821 (A)
 Type: 5800-HSC
 Synch speed: 1200 rpm
 Curve: 210806A
 Specific Speeds:
 Dimensions:
 Speed: 1170 rpm
 Dia: 9.25 in
 Impeller: D8C1A
 Ns: 3593
 Nss: 10790
 Suction: 10 in
 Discharge: 8 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 0.69 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

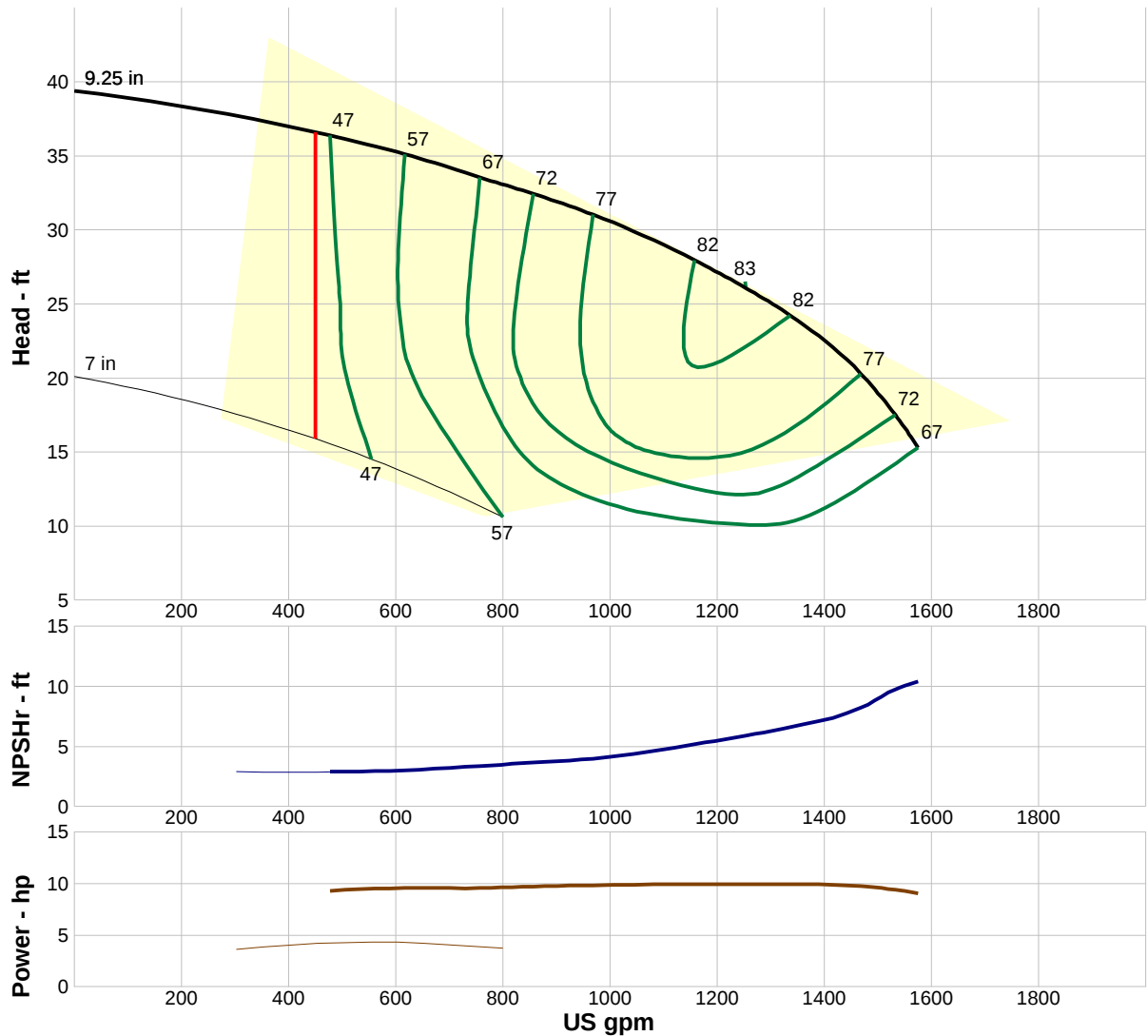
Fluid:

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
 Size: 10 hp
 Speed: 1200
 Frame: 256T

---- Data Point ----	
Flow:	1253 US gpm
Head:	26.1 ft
Eff:	83%
Power:	9.94 hp
NPSHr:	5.92 ft
---- Design Curve ----	
Shutoff head:	39.4 ft
Shutoff dP:	17 psi
Min flow:	450 US gpm
BEP:	83% @ 1253 US gpm
NOL power:	9.97 hp @ 1157 US gpm
-- Max Curve --	
Max power:	9.97 hp @ 1157 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1512	1170	18.4	74	9.52	9.28
1260	1170	25.9	83	9.94	5.98
1008	1170	30.4	78	9.88	4.24
756	1170	33.5	67	9.57	3.38
504	1170	36.1	49	9.37	2.93