

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 8"5821 (C)
 Type: 5800-HSC
 Synch speed: 1200 rpm
 Curve: 210806C
 Specific Speeds:
 Dimensions:
 Speed: 1175 rpm
 Dia: 9.25 in
 Impeller: D8CAC
 Ns: 3238
 Nss: 11365
 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

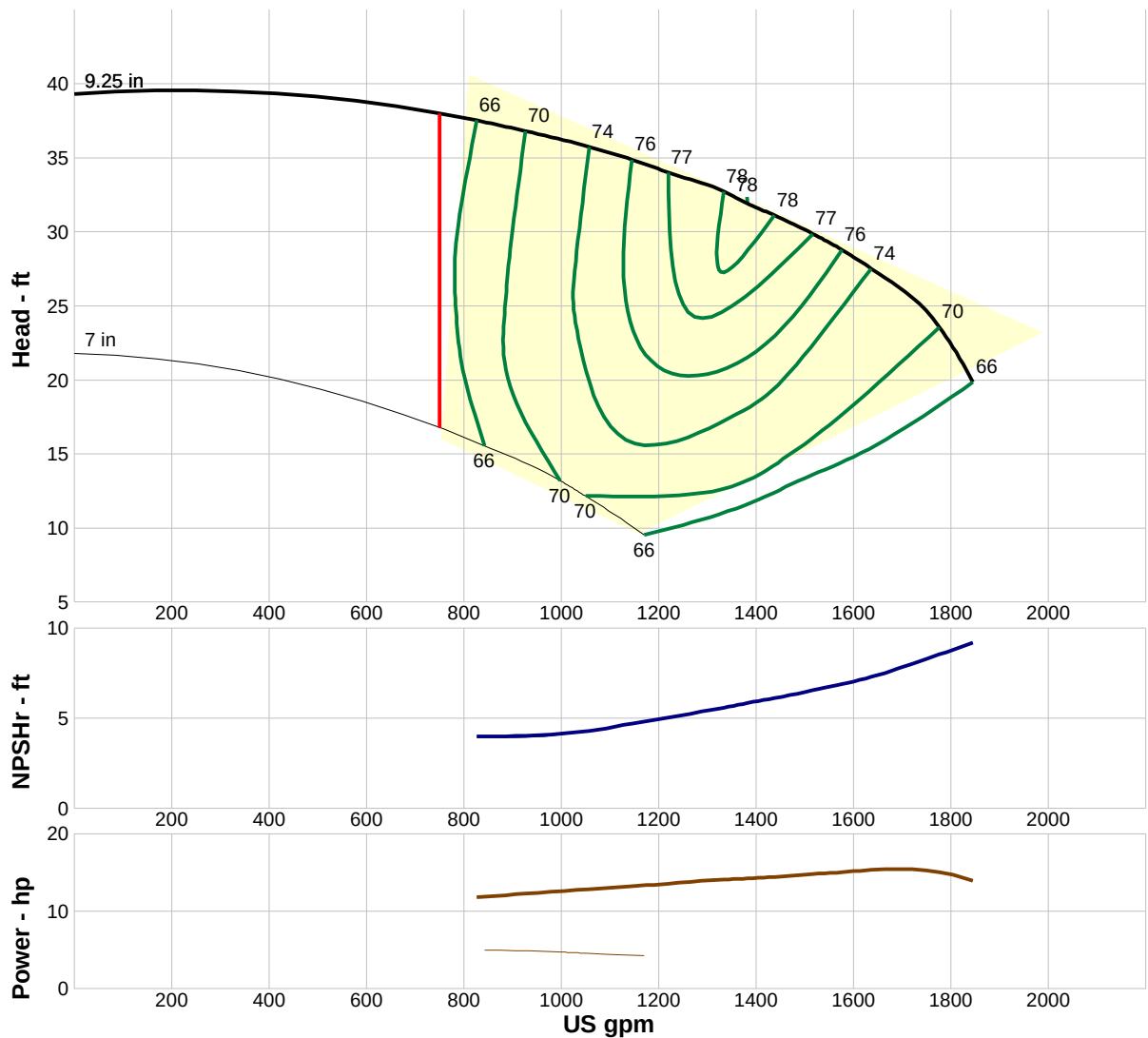
Fluid:

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: 20 hp
 Speed: 1200
 Frame: 286T

---- Data Point ----	
Flow:	1382 US gpm
Head:	31.9 ft
Eff:	78%
Power:	14.3 hp
NPSHr:	5.86 ft
---- Design Curve ----	
Shutoff head:	39.3 ft
Shutoff dP:	17 psi
Min flow:	750 US gpm
BEP:	78% @ 1382 US gpm
NOL power:	15.4 hp @ 1636 US gpm
-- Max Curve --	
Max power:	15.4 hp @ 1636 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1771	1175	23.7	70	15.1	8.51
1476	1175	30.5	78	14.7	6.34
1181	1175	34.5	76	13.4	4.88
886	1175	37.1	68	12.1	4.03
590	1175	---	---	---	---