

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 5"5821
 Type: 5800-HSC
 Synch speed: 1800 rpm
 Curve: 210504B
 Specific Speeds:
 Dimensions:
 Speed: 1760 rpm
 Dia: 8.75 in
 Impeller: D5C1B
 Ns: 2280
 Nss: 8741
 Suction: 6 in
 Discharge: 5 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 0.75 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

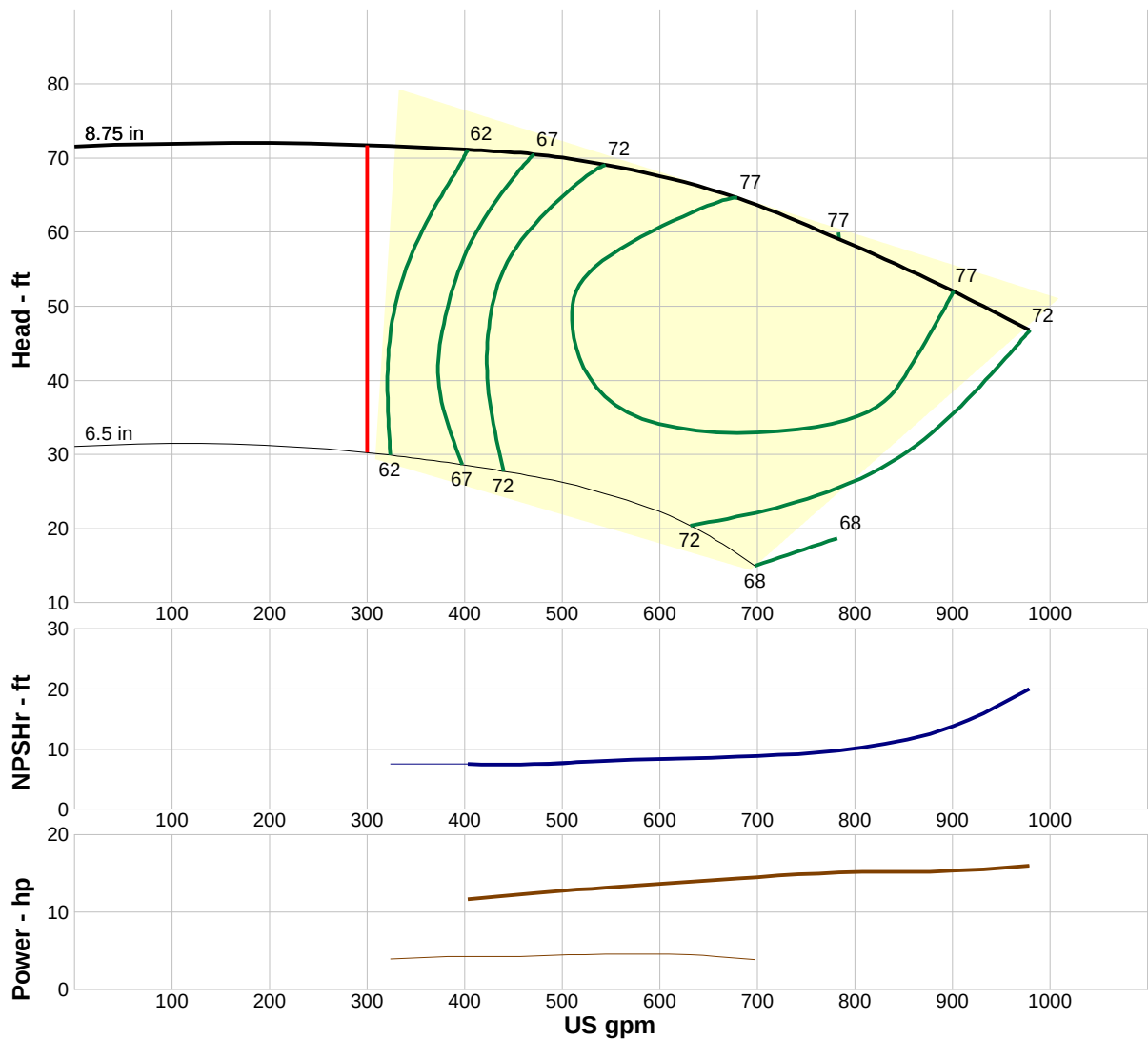
Fluid:

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: 1800
 Frame: 256T

---- Data Point ----	
Flow:	784 US gpm
Head:	59 ft
Eff:	77%
Power:	15.2 hp
NPSHr:	9.81 ft
---- Design Curve ----	
Shutoff head:	71.6 ft
Shutoff dP:	30.9 psi
Min flow:	300 US gpm
BEP:	77% @ 784 US gpm
NOL power:	16 hp @ 979 US gpm
-- Max Curve --	
Max power:	16 hp @ 979 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
940	1760	49.4	74	15.7	16.9
783	1760	59.1	77	15.1	9.79
626	1760	66.4	75	13.9	8.49
470	1760	70.5	67	12.5	7.5
313	1760	71.2	55	10.6	7.5