

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: 8HXH (1 stage)
 Type: Vertical
 Synch speed: 1760 rpm
 Curve: 8HXH
 Specific Speeds:
 Dimensions:
 Vertical Turbine:
 Speed: 1760 rpm
 Dia: 6 in
 Impeller:
 Ns: 1760
 Nss: ---
 Suction: 6 in
 Discharge: 6 in
 Bowl size: --- in
 Max lateral: 0.375 in
 Thrust K factor: ---

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

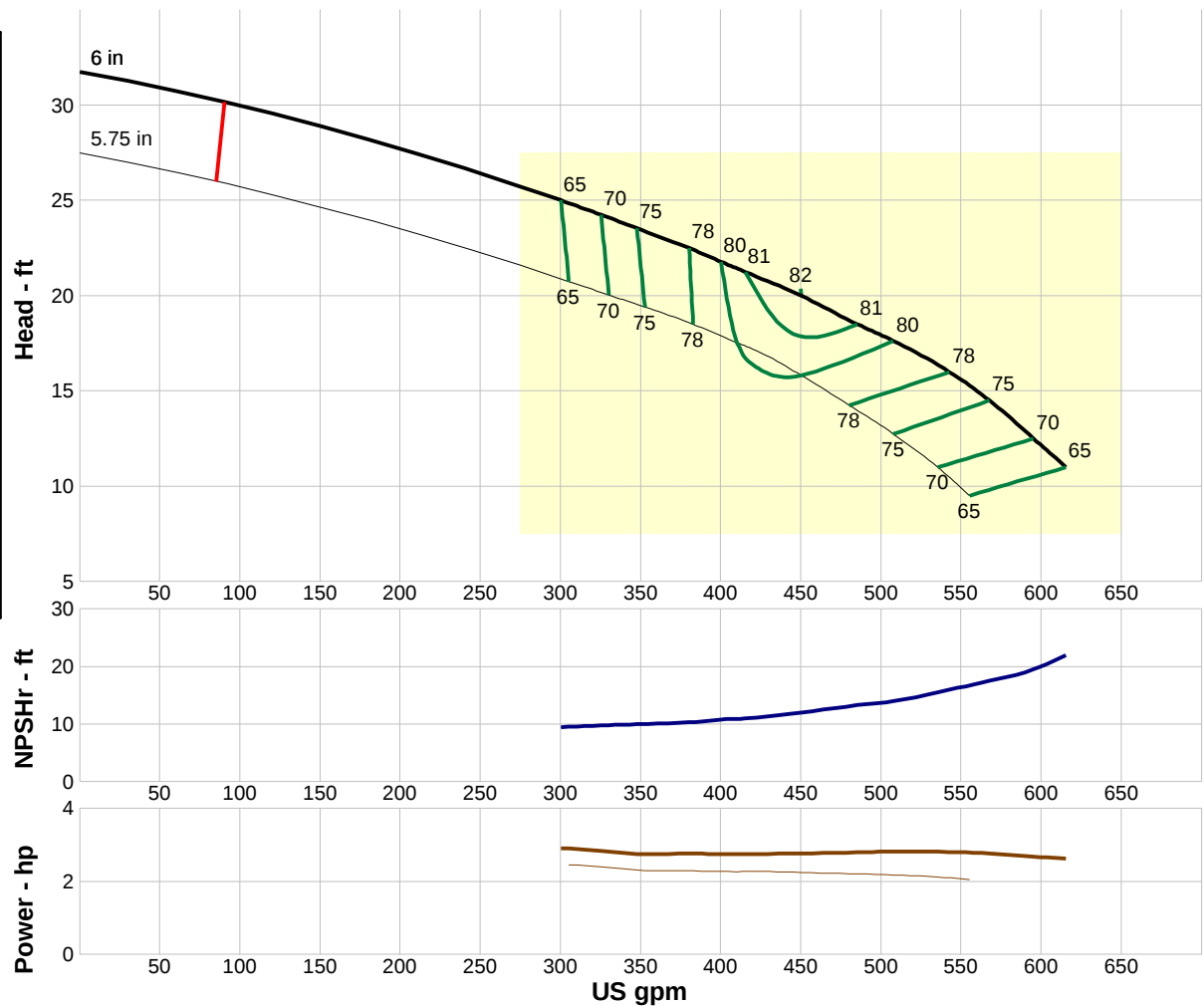
Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 --- hp
 Speed: ---
 Frame: ---

Pump Limits:

Temperature: 140 °F
 Pressure: --- psi g
 Sphere size: 0.75 in
 Power: 150 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	450 US gpm
Head:	20 ft
Eff:	82%
Power:	2.77 hp
NPSHr:	12 ft
---- Design Curve ----	
Shutoff head:	31.8 ft
Shutoff dP:	13.7 psi
Min flow:	90 US gpm
BEP:	82% @ 450 US gpm
NOL power:	3.51 hp @ 90 US gpm
-- Max Curve --	
Max power:	3.51 hp @ 90 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
590	1760	12.9	70.9	2.7	19.1
492	1760	18.2	80.7	2.81	13.5
394	1760	22	79.4	2.76	10.7
295	1760	25.1	64	2.93	9.45
197	1760	27.3	44.4	3.2	8.47