

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: 10HXH (1 stage)
 Type: Vertical
 Synch speed: 1760 rpm
 Curve: 10HXH
 Specific Speeds:
 Dimensions:
 Vertical Turbine:
 Speed: 1760 rpm
 Dia: 8.25 in
 Impeller:
 Ns: 1760
 Nss: ---
 Suction: 6 in
 Discharge: 6 in
 Bowl size: 9.875 in
 Max lateral: 0.75 in
 Thrust K factor: 10.3 lb/ft

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

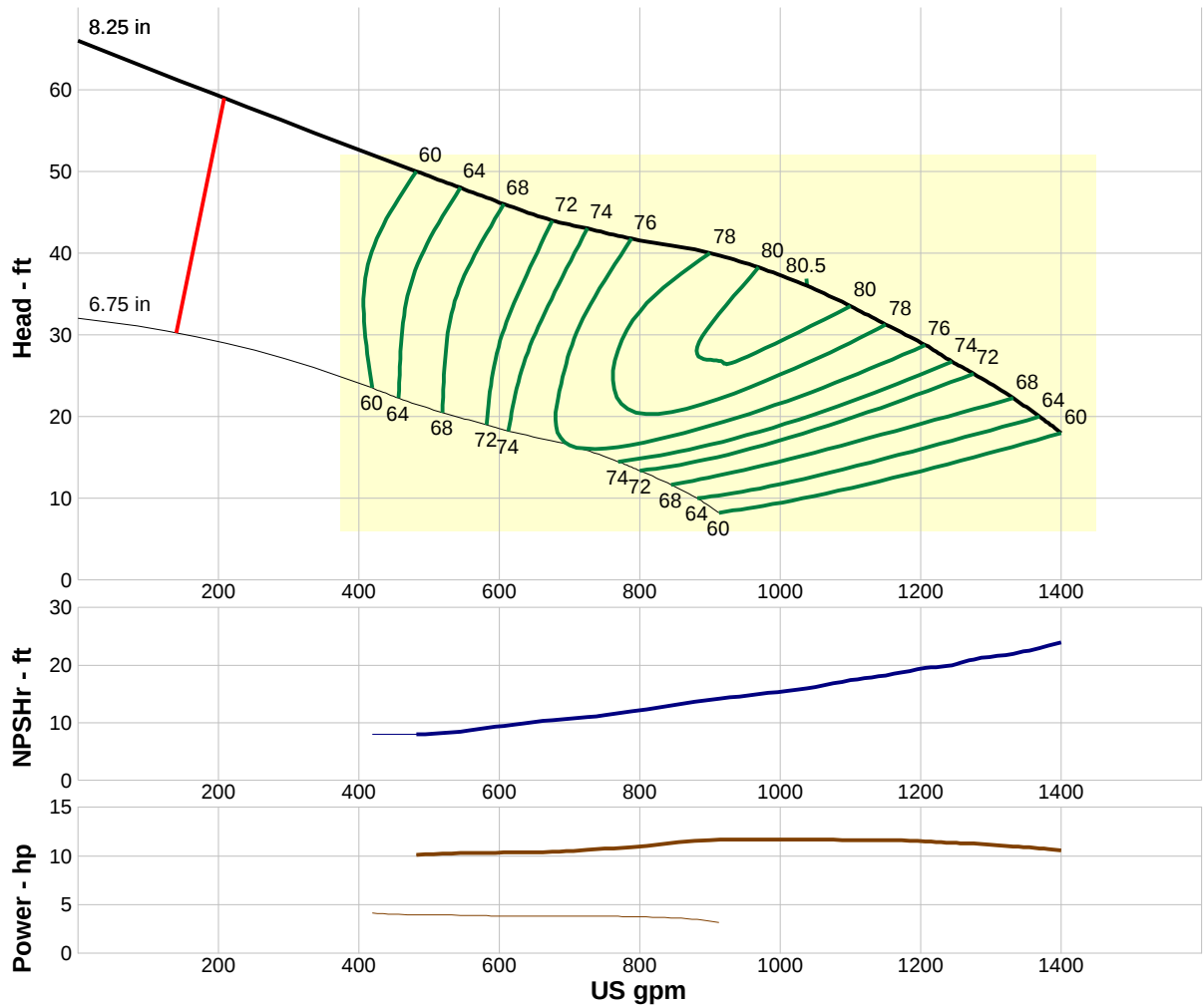
Motor:

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

Pump Limits:

Temperature: 140 °F
 Pressure: 455 psi g
 Sphere size: 0.875 in
 Power: 150 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	1038 US gpm
Head:	36 ft
Eff:	80.5%
Power:	11.7 hp
NPSHr:	16 ft
---- Design Curve ----	
Shutoff head:	66 ft
Shutoff dP:	28.5 psi
Min flow:	208 US gpm
BEP:	80.5% @ 1038 US gpm
NOL power:	11.7 hp @ 1038 US gpm
-- Max Curve --	
Max power:	11.7 hp @ 1038 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1344	1760	21.5	66.6	10.9	22.3
1120	1760	32.6	79.2	11.6	17.7
896	1760	40.1	77.9	11.6	13.9
672	1760	44.1	71.8	10.4	10.5
448	1760	51.1	57.9	10	7.73