

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: 10CC (1 stage)
 Type: Vertical
 Synch speed: 1760 rpm
 Curve: 10CC
 Specific Speeds:
 Dimensions:
 Vertical Turbine:
 Speed: 1760 rpm
 Dia: 8.062 in
 Impeller:
 Ns: 1760
 Nss: ---
 Suction: 6 in
 Discharge: 6 in
 Bowl size: 9.5 in
 Max lateral: 0.75 in
 Thrust K factor: 4 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

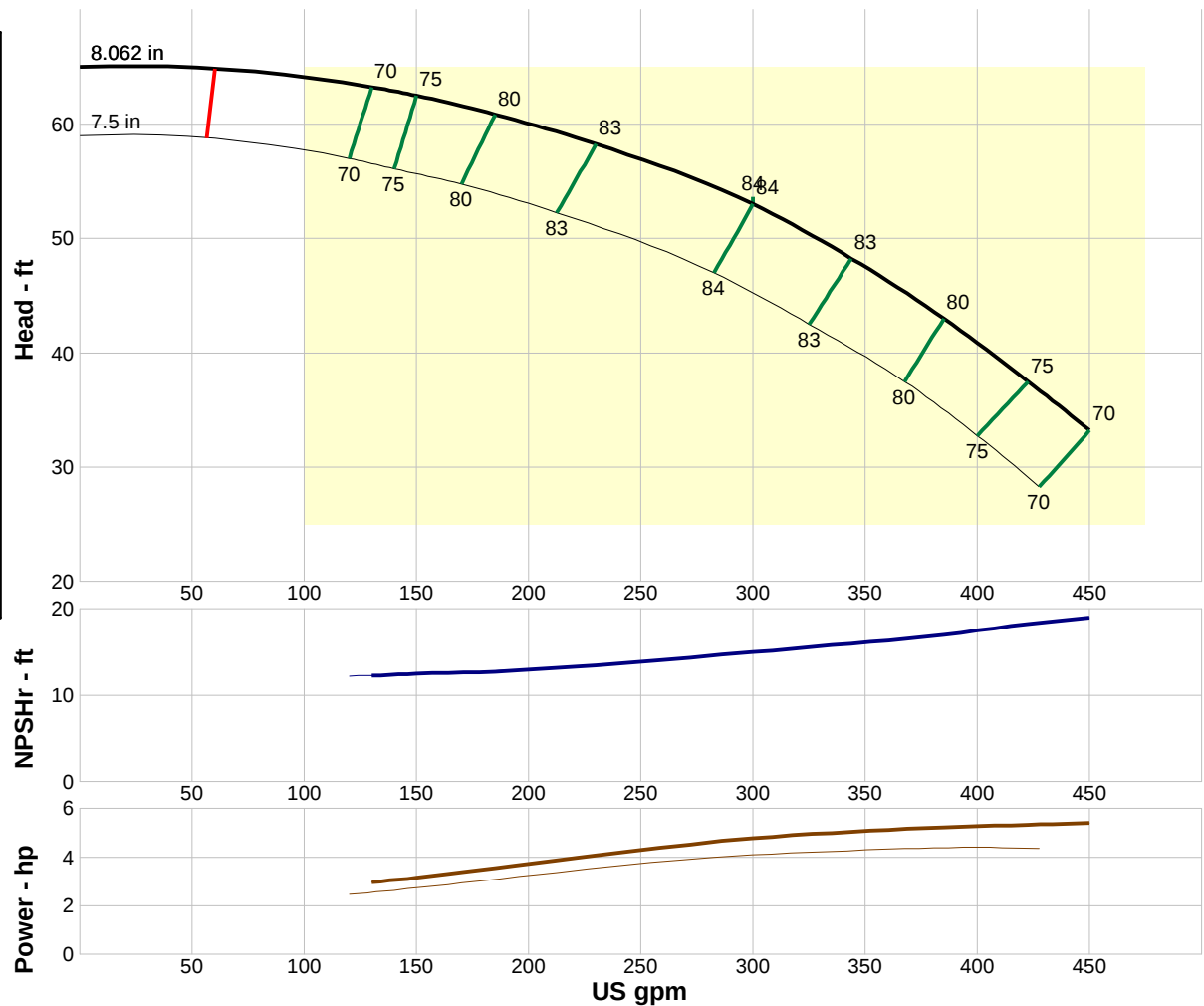
Motor:

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

Pump Limits:

Temperature: 140 °F
 Pressure: 278 psi g
 Sphere size: 0.531 in
 Power: 150 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	300 US gpm
Head:	53 ft
Eff:	84%
Power:	4.78 hp
NPSHr:	15 ft
---- Design Curve ----	
Shutoff head:	65 ft
Shutoff dP:	28.1 psi
Min flow:	60 US gpm
BEP:	84% @ 300 US gpm
NOL power:	5.4 hp @ 450 US gpm
-- Max Curve --	
Max power:	5.4 hp @ 450 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
432	1760	36	73.3	5.36	18.5
360	1760	46.2	81.8	5.12	16.4
288	1760	53.9	83.8	4.66	14.7
216	1760	59.1	82.1	3.91	13.3
144	1760	62.7	73.5	3.1	12.4