

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: 7SS300 (1 stage)
 Type: Submersible
 Synch speed: 3450 rpm
 Curve: 7SS300
 Specific Speeds:
 Dimensions:
 Speed: 3450 rpm
 Dia: 5.4 in
 Impeller:
 Ns: 3450
 Nss: ---
 Suction: --- in
 Discharge: --- in

Pump Limits:

Temperature: 140 °F
 Pressure: 540 psi g
 Sphere size: 0.25 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

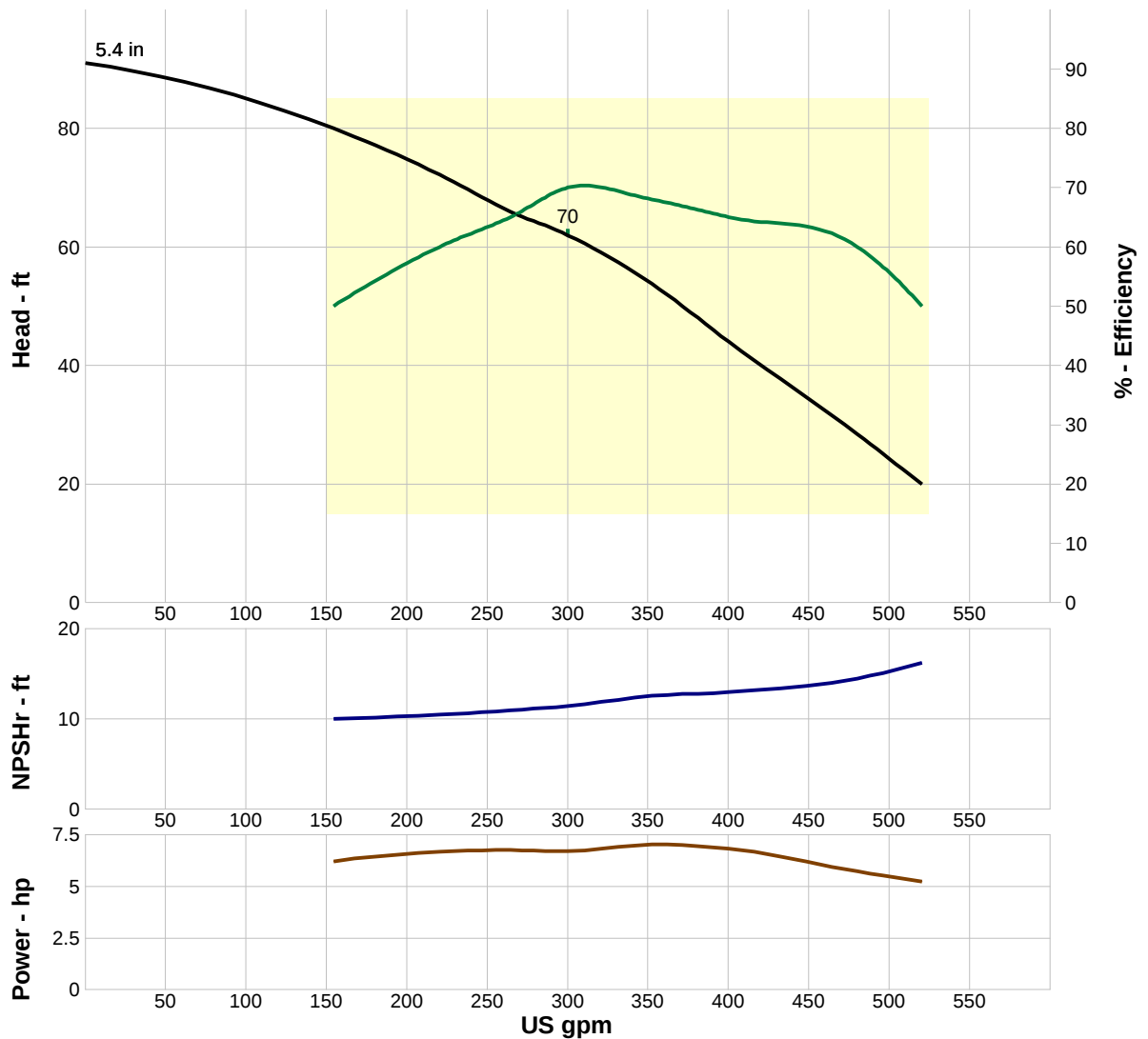
Fluid:

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
 --- hp
 Speed: ---
 Frame: ---

---- Data Point ----	
Flow:	300 US gpm
Head:	62 ft
Eff:	70%
Power:	6.71 hp
NPSHr:	11.5 ft
---- Design Curve ----	
Shutoff head:	91 ft
Shutoff dP:	39.3 psi
Min flow:	60 US gpm
BEP:	70% @ 300 US gpm
NOL power:	7.03 hp @ 352 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
499	3450	24.4	55.3	5.51	15.3
416	3450	40.9	64	6.62	13.3
333	3450	56.8	68.7	6.91	12.2
250	3450	67.9	63.4	6.74	10.8
166	3450	78.6	51.8	6.31	10.1