



Company: Bonneville Power Administration

Name:

Date: 2/8/2007

Pump:

Size: AF10-10-1180

Type: AXIAL FLOW

Synch speed: 1200 rpm

Curve:

Specific Speeds:

Dimensions:

Speed: 1180 rpm

Line: A

Impeller:

Ns: ---

Nss: ---

Suction: --- in

Discharge: --- in

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

Size: 10 hp

Speed: 1200

Frame: 256T

Sizing criteria: Max Power on Design Curve

Pump Limits:

Temperature: --- °F

Pressure: --- psi g

Sphere size: --- in

Power: --- hp

Eye area: --- in²

---- Data Point ----

Flow: 2461 US gpm

Head: 7.87 ft

Eff: 78%

Power: 6.27 hp

NPSHr: 14.3 ft

---- Design Curve ----

Shutoff head: 10.7 ft

Shutoff dP: 4.64 psi

Min flow: --- US gpm

BEP: 78% @ 2461 US gpm

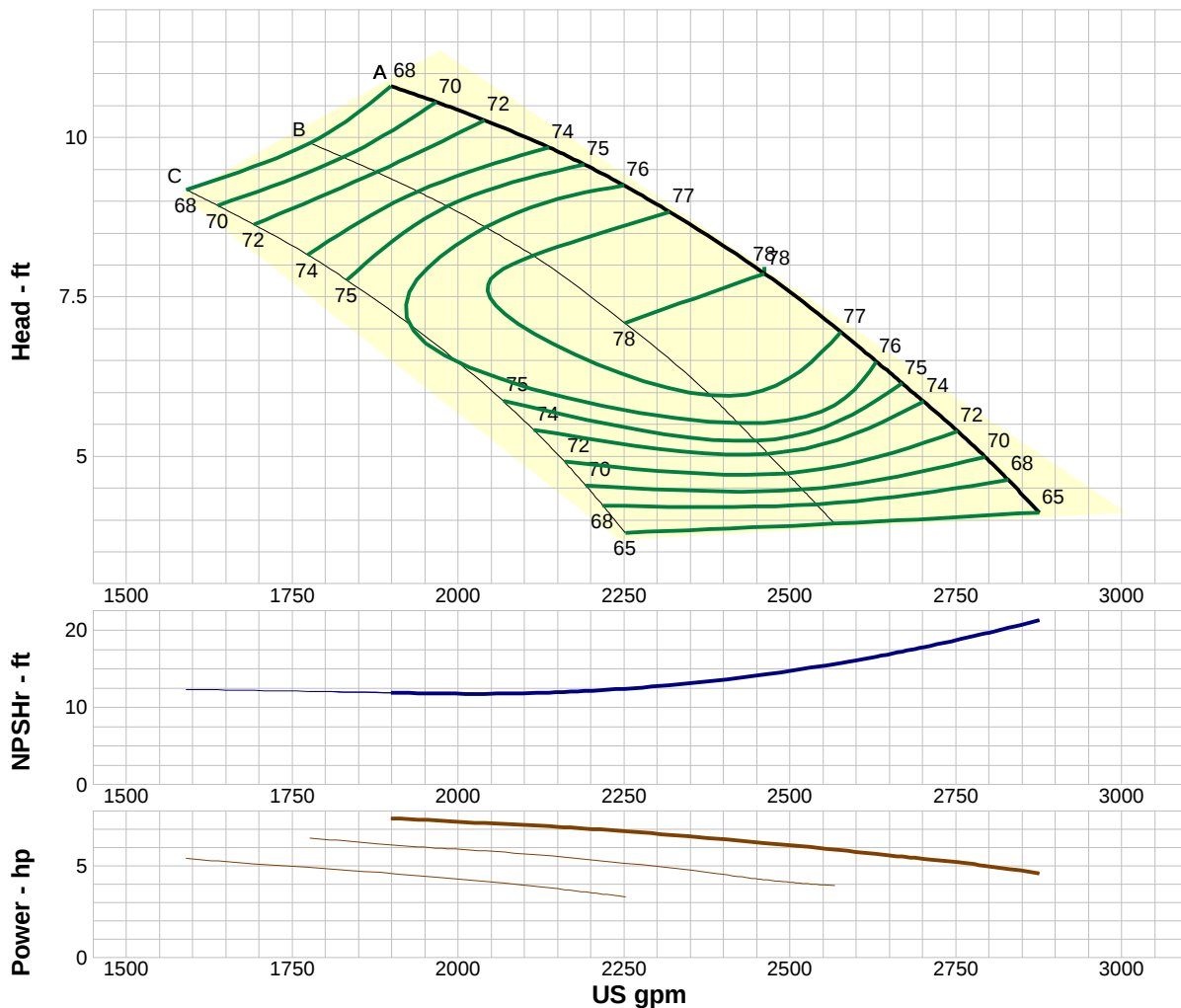
NOL power:

7.62 hp @ 1898 US gpm

-- Max Curve --

Max power:

7.62 hp @ 1898 US gpm



The performance is guaranteed for the design point only when pumping clean water at 85 degrees F. Consult factory for certified performance curve.

Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2760	1180	5.31	71.6	5.17	18.9
2300	1180	8.94	76.7	6.77	12.8
1840	1180	---	---	---	---
1380	1180	---	---	---	---
920	1180	---	---	---	---