



Company: Bonneville Power Administration

Name:

Date: 2/8/2007

Selection: FPI

Pump:

Size: AF24-21-880

Type: AXIAL FLOW
Synch speed: 900 rpm

Curve:

Specific Speeds:

Dimensions:

Speed: 880 rpm
Line: A (24)

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: 125 hp
Speed: 900
Frame: 447T

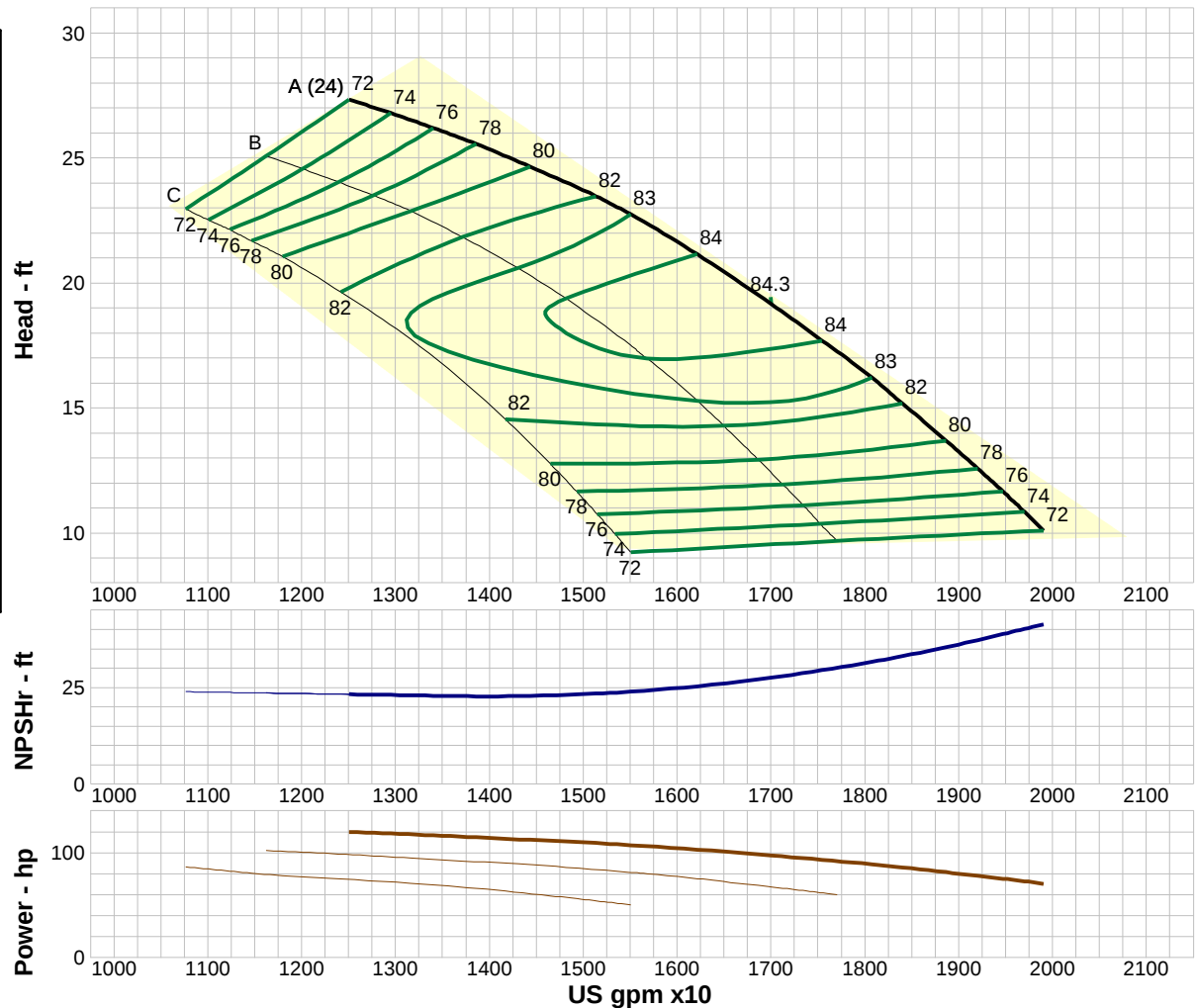
Sizing criteria: Max Power on Design Curve

Pump Limits:

Temperature: --- °F
Pressure: --- psi g
Sphere size: --- in

Power: --- hp
Eye area: --- in²

---- Data Point ----	
Flow:	17000 US gpm
Head:	19.2 ft
Eff:	84.3%
Power:	97.5 hp
NPSHr:	27.6 ft
---- Design Curve ----	
Shutoff head:	26.2 ft
Shutoff dP:	11.3 psi
Min flow:	--- US gpm
BEP:	84.3% @ 17000 US gpm
NOL power:	120 hp @ 12500 US gpm
-- Max Curve --	
Max power:	120 hp @ 12500 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
19104	880	12.9	78.5	79.1	36.8
15920	880	21.8	83.6	105	24.8
12736	880	27.1	73.1	119	23.1
9552	880	---	---	---	---
6368	880	---	---	---	---