



Company: Bonneville Power Administration

Name:

Date: 2/8/2007

Selection: FPI

Pump:

Size: AF54-48-270

Type: AXIAL FLOW

Synch speed: 277 rpm

Curve:

Specific Speeds:

Dimensions:

Speed: 270 rpm

Line: A (54)

Impeller:

Ns: ---

Nss: ---

Suction: --- in

Discharge: --- in

Pump Limits:

Temperature: --- °F

Pressure: --- psi g

Sphere size: --- 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

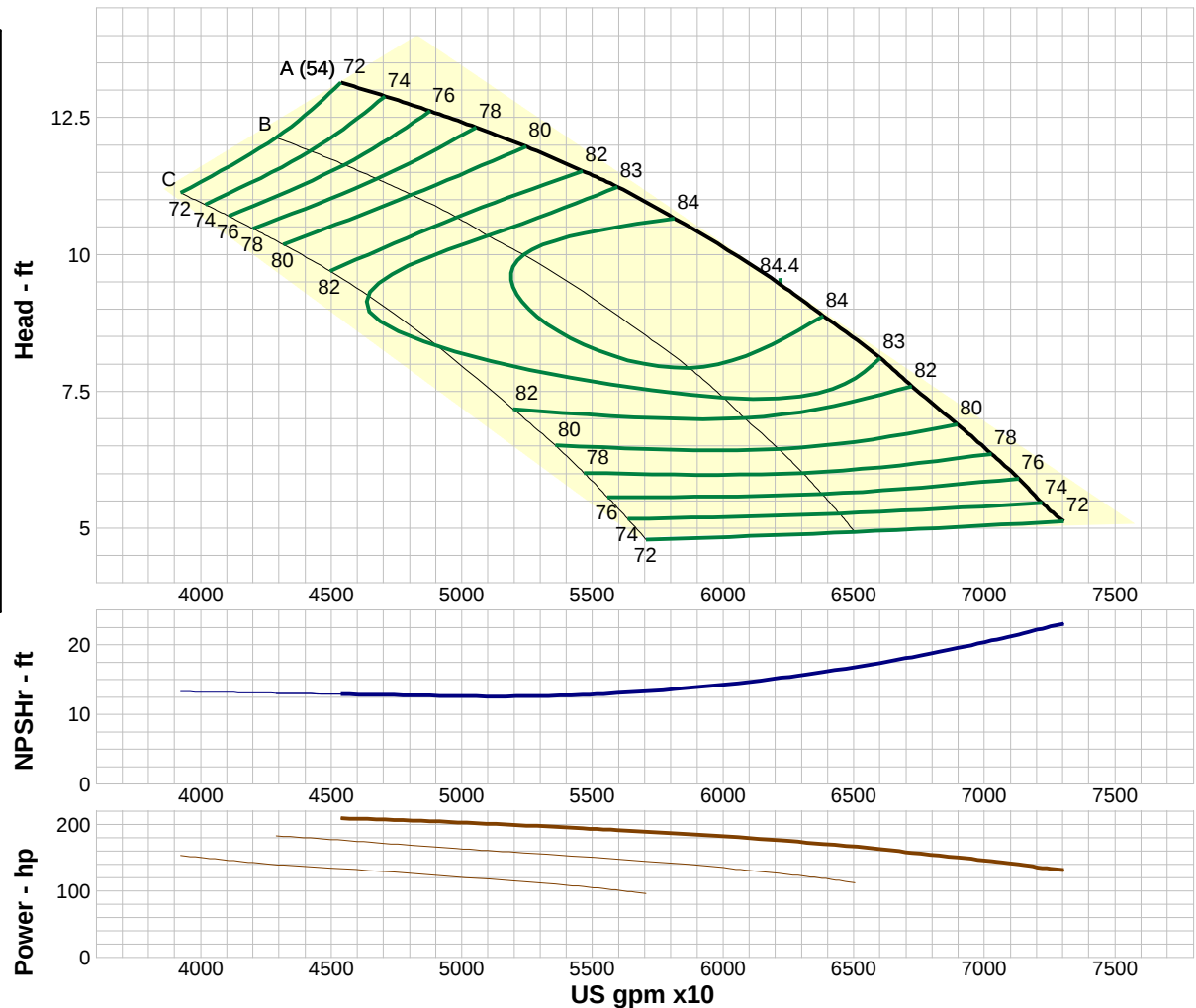
--- hp

Speed: ---

Frame: ---

Sizing criteria: Max Power on Design Curve

---- Data Point ----	
Flow:	62196 US gpm
Head:	9.44 ft
Eff:	84.4%
Power:	176 hp
NPSHr:	15.3 ft
---- Design Curve ----	
Shutoff head:	12.7 ft
Shutoff dP:	5.48 psi
Min flow:	--- US gpm
BEP:	84.4% @ 62196 US gpm
NOL power:	209 hp @ 45346 US gpm
-- Max Curve --	
Max power:	209 hp @ 45346 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
70090	270	6.43	78.3	145	20.5
58408	270	10.6	84	186	13.8
46726	270	12.9	73.6	207	12.9
35045	270	---	---	---	---
23363	270	---	---	---	---