

Selection list: ---

Catalog: Aurora Pumps.60 vers 3.0

Search Criteria:

Flow: 750 US gpm
Head: 122 ft
Tolerance: --- % of head

Pump: 4x5x15

Type: 410-HSC
Synch speed: 1800 rpm
Speed: 1750 rpm
Dia: 12.4375 in
Curve no.: PC117373

Fluid: Water

Temperature: 60 °F
SG: 1
Viscosity: 1.105 cP
Vapor pressure: 0.2563 psi a
Atm pressure: 14.7 psi a

Specific Speeds

Ns: 973 Nss: 5104

Dimensions:

Suction: 5 in Discharge: 4 in

NPSHa: --- ft

Advanced Criteria:

Preferred Operating Area: ---
Secondary Operating Point: ---
Max temperature: --- °F
Max suction pressure: --- psi g
Max sphere size: --- in
Max power: --- bhp
Max suction specific speed: --- (Nss)
Min trim: --- % of max diameter
Min head rise: --- % to shutoff

Pump Limits:

Temperature: 275 °F
Pressure: 250 psi g
Sphere size: 0.625 in
Power: --- bhp

Motor: 40 hp

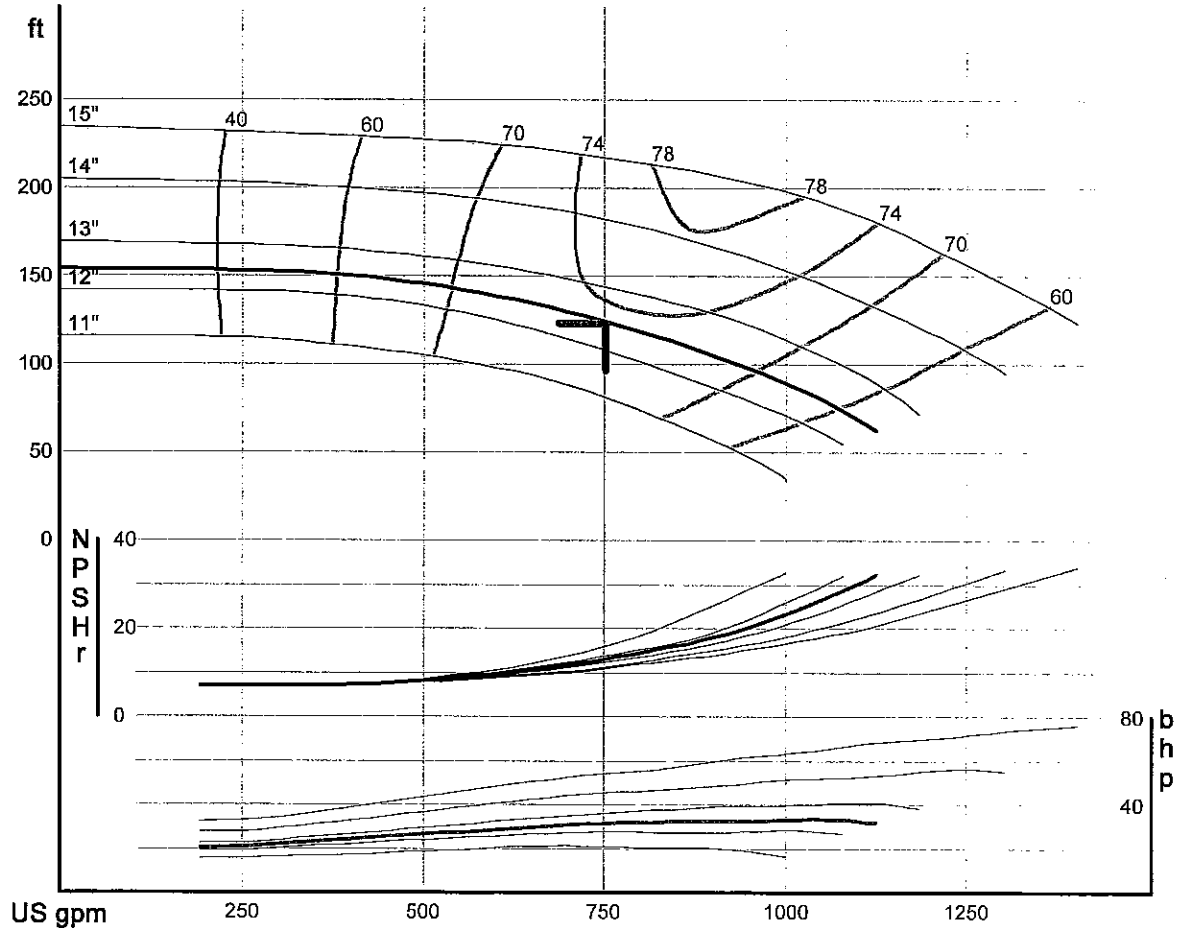
Speed: 1800
Frame: 324T
Standard: NEMA
Enclosure: TEFC
Sizing criteria: Max Power on Design Curve

Curve Corrections: none

--- Data Point ---
Flow: 750 US gpm
Head: 123 ft
Eff: 73%
Power: 31.6 bhp
NPSHr: 13.1 ft

-- Design Curve --
Shutoff Head: 153 ft
Shutoff dP: 66.2 psi
Min Flow: --- US gpm
BEP: 73% eff
@ 763 US gpm
NOL Pwr: 33.3 bhp
@ 1070 US gpm

-- Max Curve --
Max Pwr: 75.8 bhp
@ 1400 US gpm



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Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Pump %eff	Power bhp	NPSHr ft	Motor %eff	Motor kW	Hrs/yr	Cost /kWh
900	1750	103	71	32.4	18.5				
750	1750	123	73	31.6	13.1				
600	1750	136	71	28.7	9.95				
450	1750	146	64	25.5	7.73				
300	1750	151	50	22.3	7				