



Company: Systecore Inc.
 Name: State of Michigan Flint
 Date: 07/22/08

P-7, P-8

Pump:

Model: E2.5F9A-1
 Type: HVES
 Synch speed: 1800 rpm
 Size: 3x2.5x9.5
 Specific Speeds:
 Dimensions:
 Speed: 1760 rpm
 Dia: 8.5625 in
 Impeller: D05-87174
 Ns: 1216
 Nss: 4996
 Suction: 3 in
 Discharge: 2.5 in

Search Criteria:

Flow: 255 US gpm Head: 65 ft

Fluid:

Water
 SG: 1
 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
 Size: 7.5 hp
 Speed: 1800
 Frame: 213T

Pump Limits:

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

---- Data Point ----

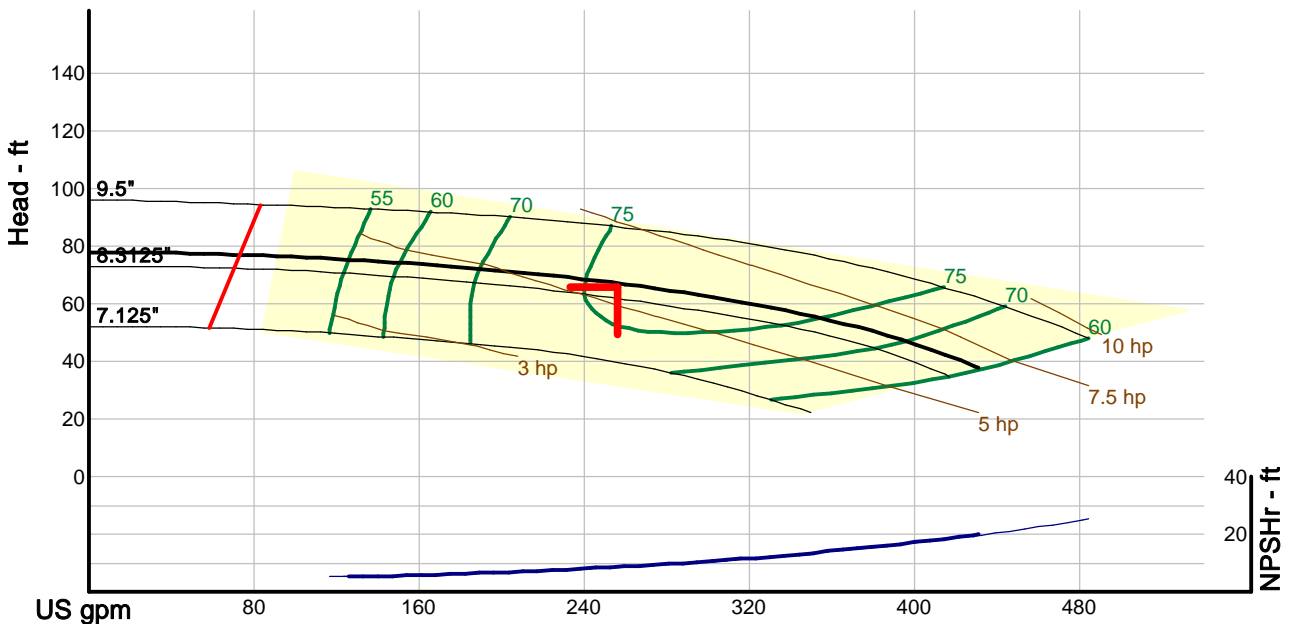
Flow: 255 US gpm
 Head: 66.2 ft
 Eff: 75.5%
 Power: 5.61 hp
 NPSHr: 8.85 ft

-- Design Curve --

Shutoff Head: 77.1 ft
 Shutoff dP: 33.3 psi
 Min Flow: 73.8 US gpm
 BEP: 76.8% eff
 @ 295 US gpm
 NOL Pwr: 6.69 hp
 @ 429 US gpm

-- Max Curve --

Max Pwr: 9.63 hp
 @ 482 US gpm



Refer to Working Pressure vs. Temperature chart for maximum rated working pressure. All data are subject to change. Contact factory for certified data.

Performance Evaluation:

| Flow US gpm | Speed rpm | Head ft | Pump %eff | Power hp | NPSHr ft |
|----------------|--------------|------------|--------------|-------------|-------------|
| 306 | 1760 | 60.8 | 76.4 | 6.11 | 11.1 |
| 255 | 1760 | 66.2 | 75.5 | 5.61 | 8.85 |
| 204 | 1760 | 70.3 | 71.5 | 5.03 | 7.13 |
| 153 | 1760 | 73.3 | 60.8 | 4.65 | 5.82 |
| 102 | 1760 | 75 | 50.3 | 3.95 | 5.38 |