

# Pump Data Sheet -

Company: WTC  
Name: HIRAM RIOS  
Date: 10/31/2023

@150 GPM



## Pump:

Size: 8FAHC (stages: 17) Dimensions: Suction: ---  
Type: Turbine Discharge: ---  
Synch Speed: 1800 rpm  
Dia: 6.1875 in  
Curve: ---  
Impeller: 8FAHC

## Fluid:

Name: Water  
SG: 1 Vapor Pressure: 0.256 psi a  
Density: 62.4 lb/ft<sup>3</sup> Atm Pressure: 14.7 psi a  
Viscosity: 1.1 cP  
Temperature: 60 °F Margin Ratio: 1

## Search Criteria:

Flow: 150 US gpm Near Miss: ---  
Head: 555 ft Static Head: 430 ft

## Pump Limits:

Temperature: --- Sphere Size: ---  
Wkg Pressure: ---

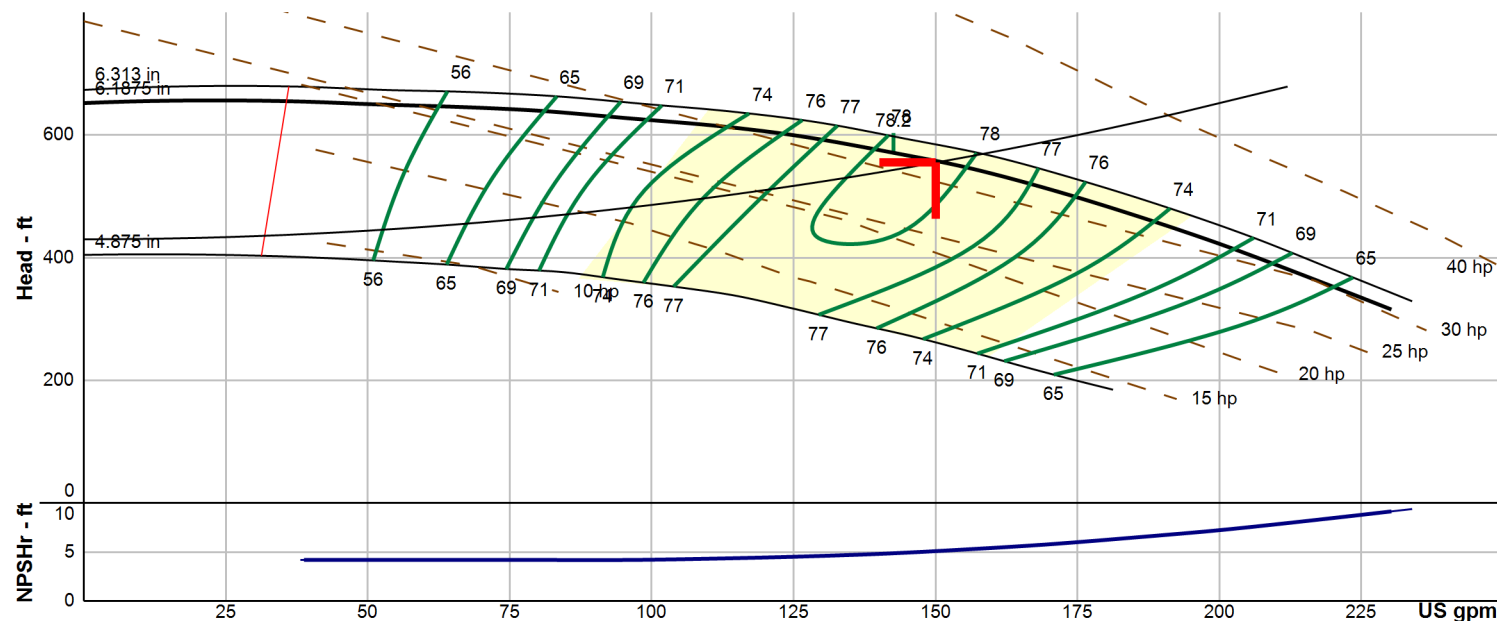
## Motor:

Standard: NEMA Size: 40 hp  
Enclosure: TEFC Speed: 1800 rpm  
Frame: 324T  
Sizing Criteria: Max Power on Design Curve

## Pump Selection Warnings:

None

--- Duty Point ---	
Flow:	151 US gpm
Head:	556 ft
Eff:	78%
Power:	27.1 hp
NPSHr:	5.12 ft
Speed:	1780 rpm
--- Design Curve ---	
Shutoff Head:	652 ft
Shutoff dP:	282 psi
Min Flow:	35.6 US gpm
BEP:	78.2% @ 143 US gpm
NOL Power:	30.6 hp @ 230 US gpm
--- Max Curve ---	
Max Power:	32.4 hp @ 234 US gpm



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Performance Evaluation:

Flow	Speed	Head	Efficiency	Power	NPSHr
	rpm		%		
180	1780	484	75.3	29.2	6.24
150	1780	557	78	27.1	5.1
120	1780	606	75.4	24.3	4.44
90	1780	632	68.2	21.1	4.18
60	1780	648	53.6	18.3	4.19