

Professional Pump Selection Analysis

Project Information

Prepared For:	Engineering Client
Report Date:	March 07, 2026
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Executive Summary

Confidence Level: Acceptable

The 4X6X13.25 L GSJH with the 336.5mm impeller is an excellent match, operating at 67.75% efficiency for the required duty, ensuring optimal energy use and reliability.

Site Requirements

PARAMETER	VALUE	UNITS
Flow Rate	135.0	m ³ /hr
Total Head	206.6	m
Liquid Type	water	-
Application	general	-
Temperature	20	°C
Specific Gravity	1.00	-

Selected Pump Specification

General Information

Manufacturer: APE PUMPS

Model:

Series: Industrial Series

Pump Code: 4X6X13.25 L GSJH

Description: APE Industrial Series pump designed for reliable water handling applications

Construction Type:

Orientation: Horizontal

Impeller Size: 336

Nominal Speed: 2970

Quality Rating:

Performance Analysis

Operating Point Performance

PARAMETER	REQUIRED	ACHIEVED	STATUS
Flow Rate	135.0 m ³ /hr	135.0 m ³ /hr	✓ Met
Total Head	206.6 m	206.6 m	✓ Met
Efficiency	-	67.8%	Acceptable
Power Consumption	-	155.9 kW	Optimized
NPSHr	< NPSHa	3.9 m	Adequate

Technical Reasoning & Selection Rationale

Best Efficiency Point (BEP) Analysis

The selected operating point for the 4X6X13.25 L GSJH (336.5mm impeller) operates at 67.8% efficiency for the required duty of 135.0 m³/hr at 206.6 m. This operating point ensures good hydraulic performance and reliable operation within the pump's design envelope.

Selection Criteria Matching

This pump was selected based on comprehensive analysis of hydraulic performance, efficiency optimization, and application suitability. It achieves an excellent overall suitability score of 0.0/100 for your specific requirements, making it our top recommendation. Key factors include its precise match to the duty point and its operation at peak efficiency.

Application Suitability

The 4X6X13.25 L GSJH is well-suited for general applications like yours. Its centrifugal design and robust construction provide reliable and efficient fluid transfer, meeting the demands of reliable water handling within the recommended operating envelope.

Alternative Options Considered

MODEL	MANUFACTURER	EFFICIENCY	POWER	SCORE	KEY DIFFERENCE
4/40 GME	APE Pumps	0.0%	0.0 kW	40.0/100	Lower overall suitability score
PL 200 AN	APE Pumps	0.0%	0.0 kW	60.0/100	Lower overall suitability score

Recommendations & Next Steps

Important Recommendations:

1. Proceed with detailed pump sizing and mechanical specifications
2. Verify available NPSH at installation site meets pump requirements
3. Consider motor sizing based on calculated power requirements
4. Review installation requirements and piping system design
5. Schedule factory acceptance testing if required

Performance Curves

Performance charts are being generated...

Advanced Pump Engineering Solutions

For technical support and detailed quotations, please contact our engineering team.

This report was generated by the APE Pumps AI Selection System on March 07, 2026 at 13:34.