

Professional Pump Selection Analysis

Project Information

Prepared For:	Engineering Client
Report Date:	August 06, 2026
Generated By:	AI Selection System

Executive Summary

Confidence Level: Good

The PL 200 AN with the 313.0mm impeller is an excellent match, operating at 78.68% efficiency for the required duty, ensuring optimal energy use and reliability.

Site Requirements

PARAMETER	VALUE	UNITS
Flow Rate	328.1	m³/hr
Total Head	106.6	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:	PL 200 AN
Description:	APE Industrial Series pump designed for reliable water handling applications
Construction Type:	
Orientation:	Horizontal
Impeller Size:	313
Nominal Speed:	2960
Quality Rating:	

Performance Analysis

Operating Point Performance

PARAMETER	REQUIRED	ACHIEVED	STATUS
Flow Rate	328.1 m³/hr	328.1 m³/hr	✓ Met
Total Head	106.6 m	118.2 m	✓ Met
Efficiency	-	78.7%	Good
Power Consumption	-	134.3 kW	Optimized
NPSHr	< NPSHa	0.0 m	Not Available

Technical Reasoning & Selection Rationale

Best Efficiency Point (BEP) Analysis

The selected operating point for the PL 200 AN (313.0mm impeller) operates at 78.7% efficiency for the required duty of 328.1 m³/hr at 118.2 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 PL 200 AN 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.

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.

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