

PRODUCT SELECTION REPORT

Model:XST50-160/55

Name:End Suction Centrifugal Pump



LEO GROUP PUMP CO.,LTD.

2026.2.14

Project Name: Koslan

Personal Name: Koslan
Company Address:

Company Name:

Website: www.leopump.com
Company Name:

Product Model: XST50-160/55
LEO GROUP PUMP CO., LTD.

Product Recommendations

Flow(m³/h): 50 **Head(m):** 27 **Power(kW):** 5.5

Based on provided information and product parameters, LEO PUMP recommends model: XST50-160/55

Introduction

Application

Circulation and transfer of clean, chemically non-aggressive water and other liquids;
Water supply & irrigation;
Water circulation in air conditioning systems;
Fire fighting system;

Operating Conditions

Delivery: up to 210 m³/h;
Head: up to 95 m;
Liquid temperature: Standard -10°C to 85°C;
Maximum operating pressure: 12 bar (PN12) Anti-clockwise rotation when facing pump's suction port
Impeller: AISI304, HT200;
Mechanical seal in compliance with DIN 24960
Lubricated by internal recirculating pumped liquid; Counter flange available on request.

Product Parameters

Nameplate

Pump flow rate(m ³ /h):	50	Total manometric head H(m):	27
Overall efficiency(%):	76.3	Speed(rpm):	2900

Technical

Motor power(kW):	5.5	Shaft Power(kW):	4.82
Curve tolerance:	ISO9906 Appendix A	Maximum lift(m):	32
Minimum usage flow(m ³ /h):	5	Maximum use flow(m ³ /h):	76
Impeller diameter(mm):	163		

Material

Impeller:	HT200	Pump body:	HT200
Chassis:	ADC12	Rear end cover:	ADC12

Bracket: HT200
Mechanical seal:

Single mechanical seal20-22

Working conditions

Max. ambient temperature(°C): 40
Max. Operating Pressure: 12bar
Pumped medium:

Max. liquid temperature(°C): 85
Water or other liquids similar to water

Installation

Inlet&Outlet Diameter: 65-50

Connection standard: Flange connection

Motor

Motor phase: Three phase
Motor poles: 2
Motor power(kW) : 5.5
Rated voltage(V): 380
Drive end bearing: 6306
Starting current(A): 114

Protection class: IP54
Insulation class: F
Frequency(Hz): 50
Rated current(A): 11.5
Non-drive end bearing: 6206

Weight/Packaging

Gross weight(kg): 74

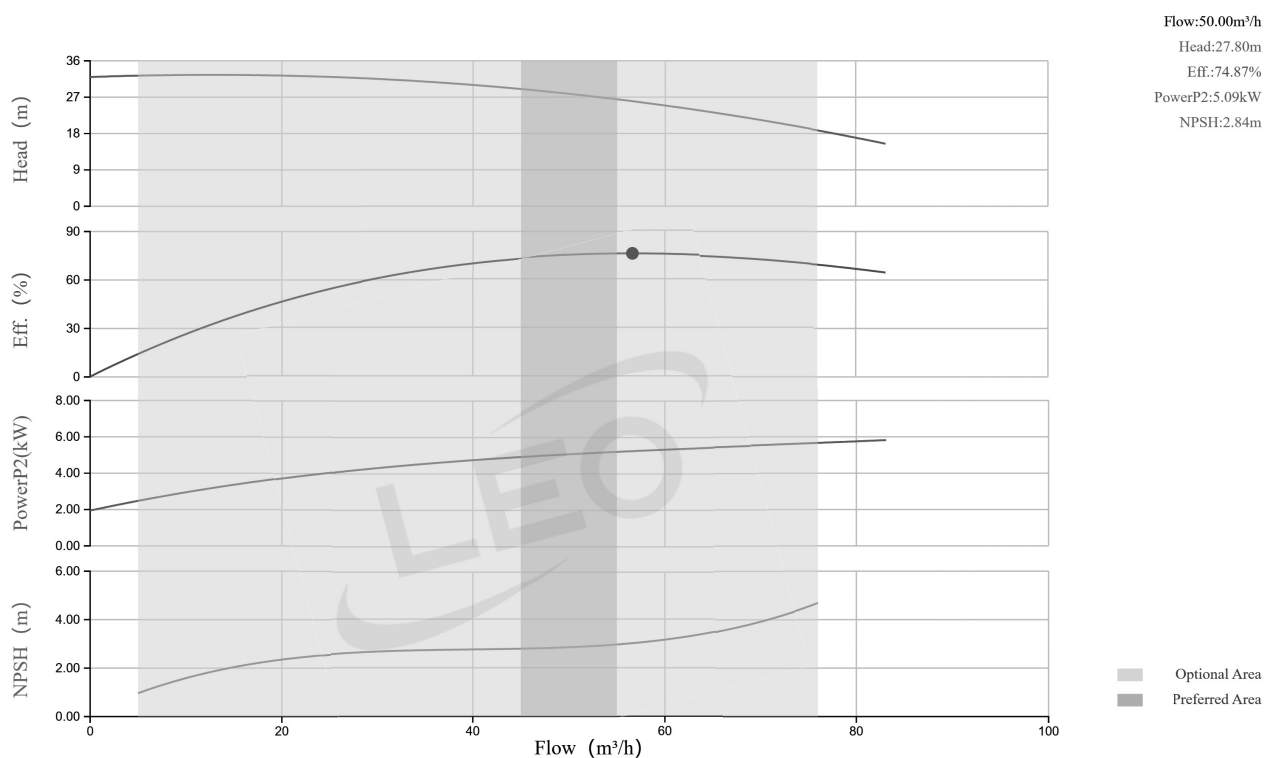
Package size(mm): 615*325*455

Area Range Parameters

Max Q(m³/h): 76.0
Allowable Maximum (m³/h): 76.0
Max Value Optimal area (m³/h): 55.0

Allowable Minimum (m³/h): 5.0
Min Value Optimal area (m³/h): 45.0

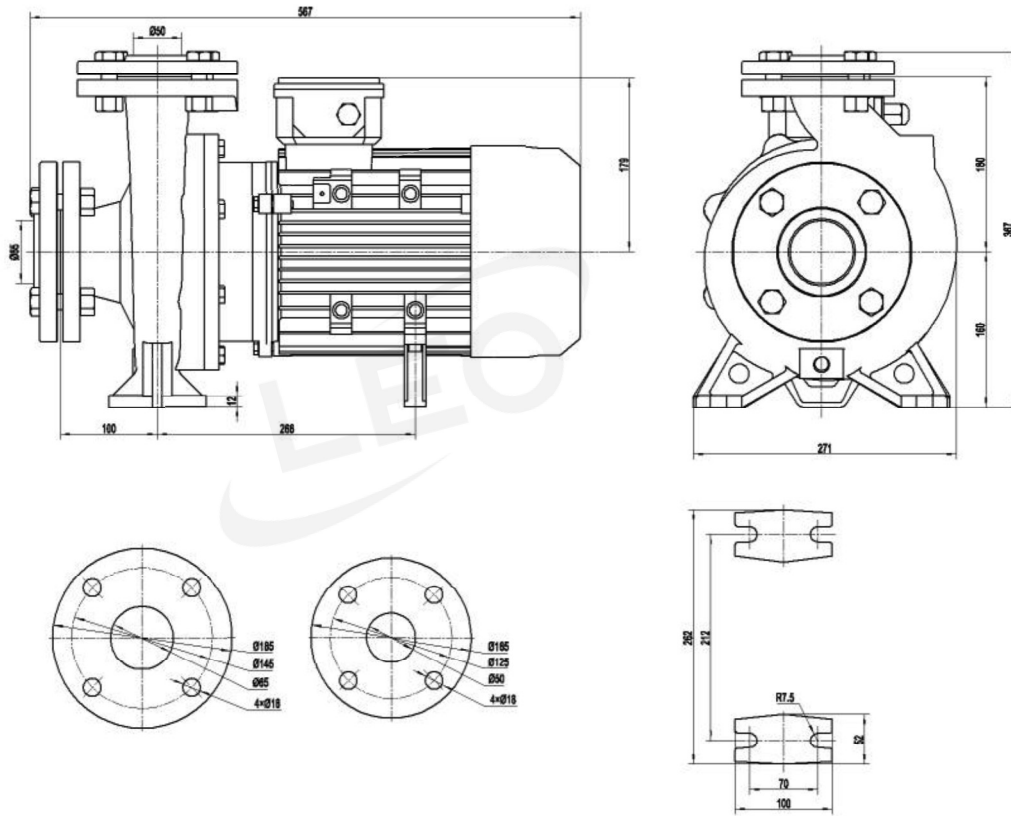
Performance Curve



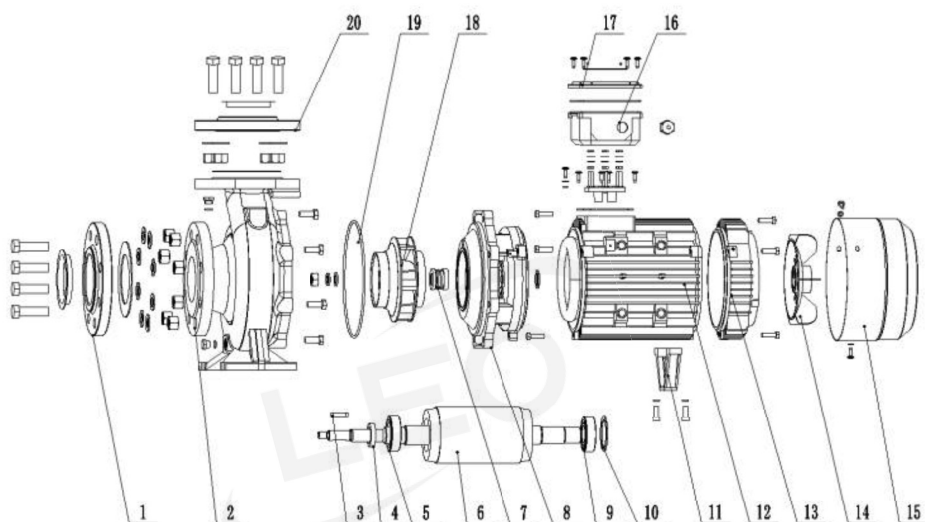
Basic Parameters

	Pump flow rate(m ³ /h)	Total manometric head H(m)	Pump efficiency(%)	Shaft power (kW)	NPSHr(m)
Rated Point	50.00	27.00	76.3	4.82	2.84
Work Point	50.00	27.80	74.87	5.09	2.84
Minimum Allowed Point	5.00	32.33	14.19	2.47	0.96
Maximum Allowed Point	76.00	18.79	69.49	5.66	4.68
Optimal Working Area (Small)	45.00	29.01	73.05	4.93	2.78
Optimal Working Area (Large)	55.00	26.46	75.62	5.21	2.95

Shape & Size



Exploded View



20	Impeller	HT200	10	Wave spring	65Mn
19	O-ring	NBR	9	Bearing	
18	Impeller	HT200	8	Connector	HT200
17	Terminal box cover		7	Mechanical seal	
16	Terminal box	ADC12	6	Rotor	
15	Fan cover	Q8F	5	Bearing	
14	Fan	PP	4	Framework sealing	
13	Rear cover	ADC12	3	Key	AT51304
12	Stator		2	Pump inlet	HT200
11	Motor support	HT200	1	Impeller	HT200
			No.	Name	Material
			Part Name		



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