PRODUCT SELECTION REPORT

Model:65SWUm24-8.5-1.5L
Name:Submersible Sewage Pump



LEO GROUP PUMP CO.,LTD.

2025.10.13

Project Name:	Koslan		
Personal Name:	Koslan	**Company Name:**	
Company Address:			
Website:	www.leopump.com	**Product Model:**	65SWUm24-8.5-1.5L
Company Name:			LEO GROUP PUMP CO., LTD.

Product Recommendations

Flow(m³/h): 24 **Head(m):** 8.5 **Power(kW):** 1.5

Based on provided information and product parameters, LEO PUMP recommends model: 65SWUm24-8.5-1.5L

Introduction

Application
• Drainage of wastewater from the attenuation tank, purifyiing tank and sewage tank in water treatment plant
• Drainage of waste water containing fibrous additives fromleather factory and food processing factory
• Sewage management, accumulated water, septic tank, stoock farm
• Pumping sewage form hotels, restaurants, schools and public buildings

Pump
• Open vortex impeller, suitable for liquid containing impurities and long fiber substance
• Flexible installations with hoses, pipes or quick-coupling ssystems
• Double-end mechanical seal
• Stainless steel welded shaft
• Liquid temperature: 0 - 40 °C
• Liquid PH value: 4 - 10
• Max. immersion depth:10 m

Motor
• Frequency/Pole number: 50 Hz/2
• Insulation class: F
• Enclosures class: IP68
• Bearing: Ball type

Product Parameters

Nameplate

Pump flow rate(m³/h):	24	Total manometric head H(m):	8.5
Overall efficiency(%):	24.4	Speed(rpm):	2900

Technical

Motor power(kW):	1.5	Curve tolerance:	GB/T 3216 AppendixA

Maximum lift(m):	13	Maximum use flow(m³/h):	31
Pump power input(kW):	2.28		

Material

Impeller:	HT200	Pump body:	HT200
Pump shaft:	06Cr19Ni10+45#	Pump cover:	HT200
Upper bearing seat:	HT200	Guide:	06Cr19Ni10
Hanging chain:	06Cr19Ni10	Coupling mounting base:	HT200
Up cover:	HT200	Motor casing:	HT200
Mechanical seal:		Double mechanical seaWQ-20	

Working conditions

Medium temperature high(°C):	≤40	Max. Particles Size(mm):	55
PH value of medium:	4 ~ 10	Max. liquid density(Kg/m³):	1.3X10³Kg/m³
Max. ambient temperature(°C):	40	Max. Operating Pressure:	PN6
Volume ratio of solid phase:	0.03	Flange rating:	PN6
Max. immersion depth(m):	5		

Pumped medium:
Capable of pumping sludge water containing solid particles, sewage, construction wastewater, and industrial effluents

Installation

Coupling Model:	SW65-65(PN6)	Installation:	Wet installation
Outlet diameter(mm):	65	Connection standard:	Hose connection
Flange Standard:	GB/T 17241.6	Pipe Diameter(mm):	65
Installation form:	Vertical	Optional accessories:	Hose bend

Motor

Motor phase:	SIngle phase	Protection class:	IP68
Motor poles:	2	Insulation class:	F
Motor power(kW) :	1.5	Frequency(Hz):	50
Rated voltage(V):	220	Rated current(A):	10
Power factor:	0.93	Drive end bearing:	6305
Non-drive end bearing:	6204	Cable length(m):	10
Outer diameter of stator(mm):	135	Starting current(A):	69

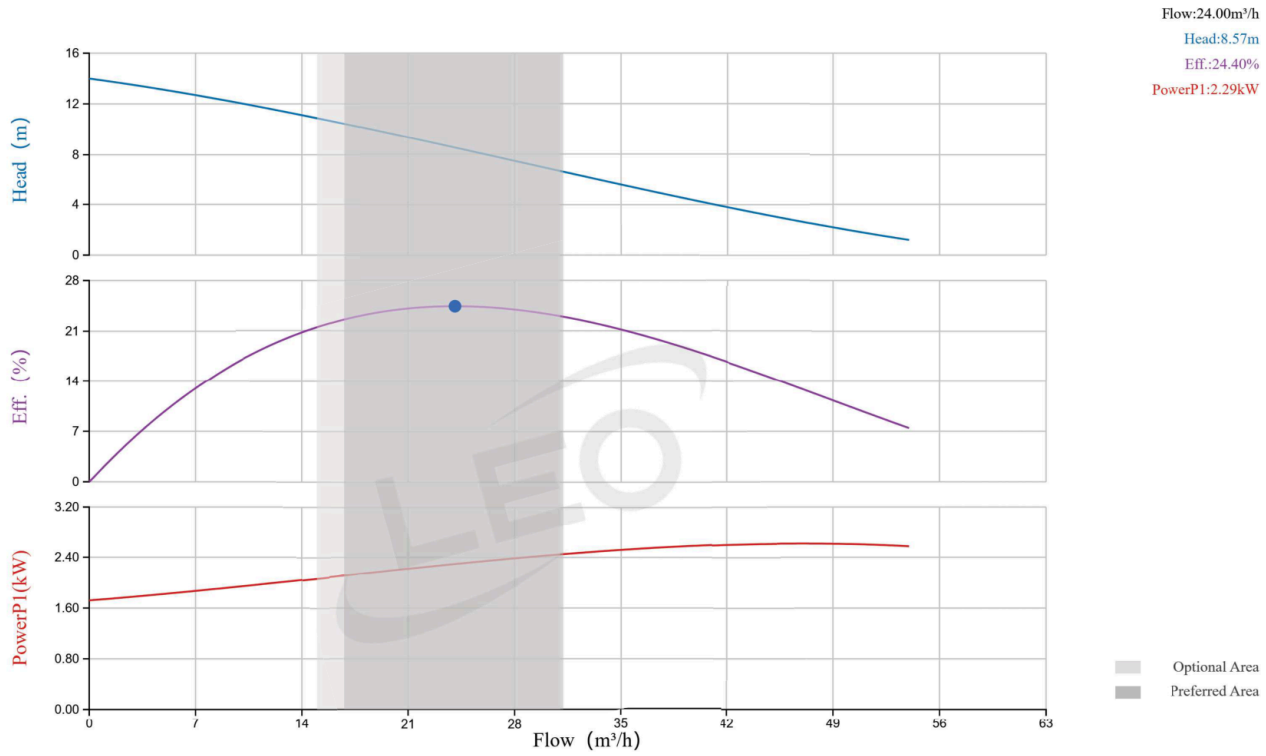
Weight/Packaging

Gross weight(kg):	59.9	Package size(mm):	924*284*363

Area Range Parameters

Max Q(m³/h):	31.0	Allowable Minimum (m³/h):	15.0
Allowable Maximum (m³/h):	31.0	Min Value Optimal area (m³/h):	16.8
Max Value Optimal area (m³/h):	31.2		

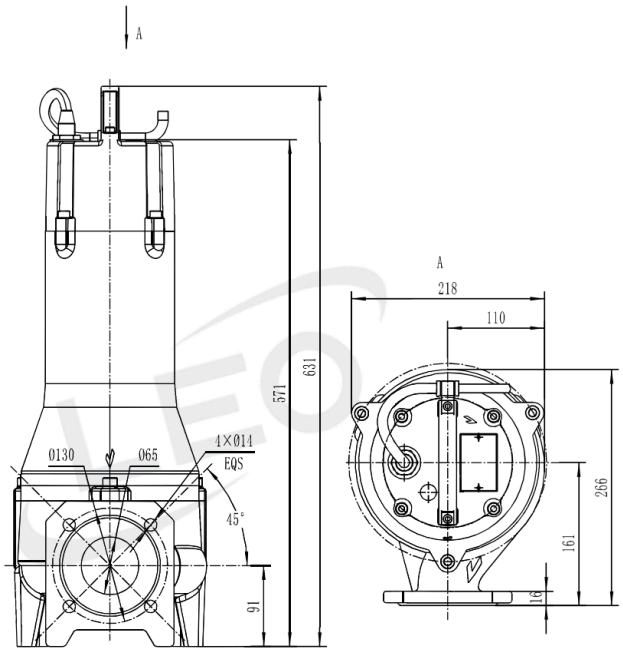
Performance Curve



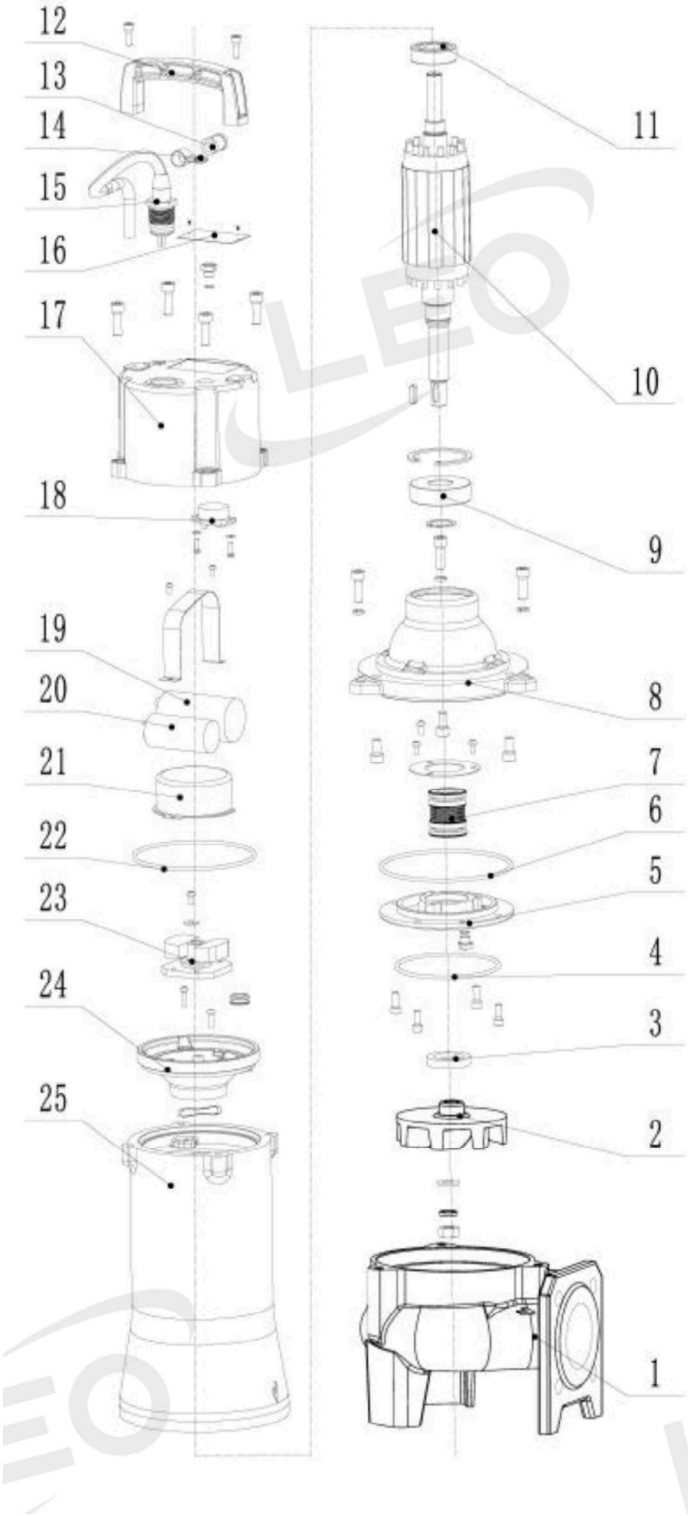
Basic Parameters

	Pump flow rate(m³/h)	Total manometric head H(m)	Overall efficiency(%)	Pump power input(kW)
Rated Point	24.00	8.50	24.4	2.28
Work Point	24.00	8.57	24.40	2.29
Minimum Allowed Point	15.00	10.87	21.45	2.06
Maximum Allowed Point	31.00	6.66	23.02	2.44
Optimal Working Area (Small)	16.80	10.42	22.54	2.11
Optimal Working Area (Large)	31.20	6.60	22.94	2.45

Shape & Size



Exploded View



No.	Part Name	Material
25	Stator	
24	End Cover	HT200
23	centrifugal switch	
22	O_sealing ring	NBR
21	Centrifugal switch cover	08F
20	capacitor	
19	Capacitor	
18	Thermal protector	
17	Top cover	HT200
16	Nameplate	304
15	Cable Assembly	
14	Cable clamp	304
13	Cable protective case	NBR
12	Handle	ZG45
11	Bearing	
10	Rotor	
9	Bearing	
8	oil chamber	HT200
7	Double mechanical seal	
6	O_sealing ring	NBR
5	Casing cover	HT200
4	O_sealing ring	NBR
3	Skeleton oil seal	
2	Impeller	HT200
1	Pump body	HT200

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