Reliable Partner on Intelligent Fluid Solutions

PRODUCT SELECTION REPORT

Model:50SWUm12-8-0.75L
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:**	50SWUm12-8-0.75L
Company Name:			LEO GROUP PUMP CO., LTD.

Product Recommendations

Flow(m^3/h):	12	**Head(m):**	8	**Power(kW):**	0.75

Based on provided information and product parameters, LEO PUMP recommends model:
50SWUm12-8-0.75L

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(m^3/h):	12	Total manometric head H(m):	8
Overall efficiency(%):	31.12	Speed(rpm):	2900

Technical

Motor power(kW):	0.75	Curve tolerance:	GB/T 3216 AppendixA

Maximum lift(m):	13	Maximum use flow(m^3/h):	16.5
Pump power input(kW):	0.874		

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 sea202-14

Working conditions

Medium temperature high(°C):	≤40	Max. Particles Size(mm):	35
PH value of medium:	4 ~ 10	Max. liquid density(Kg/m^3):	1.3X10^{3}Kg/m^3
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:	SW50-50(PN6)	Installation:	Wet installation
Outlet diameter(mm):	50	Connection standard:	Hose connection
Flange Standard:	GB/T 17241.6	Pipe Diameter(mm):	50
Installation form:	Vertical	Optional accessories:	Hose bend

Motor

Motor phase:	SIngle phase	Protection class:	IP68
Motor poles:	2	Insulation class:	F
Motor power(kW) :	0.75	Frequency(Hz):	50
Rated voltage(V):	220	Rated current(A):	5.2
Power factor:	0.95	Drive end bearing:	6203
Non-drive end bearing:	6202	Cable length(m):	10
Outer diameter of stator(mm):	110	Starting current(A):	33

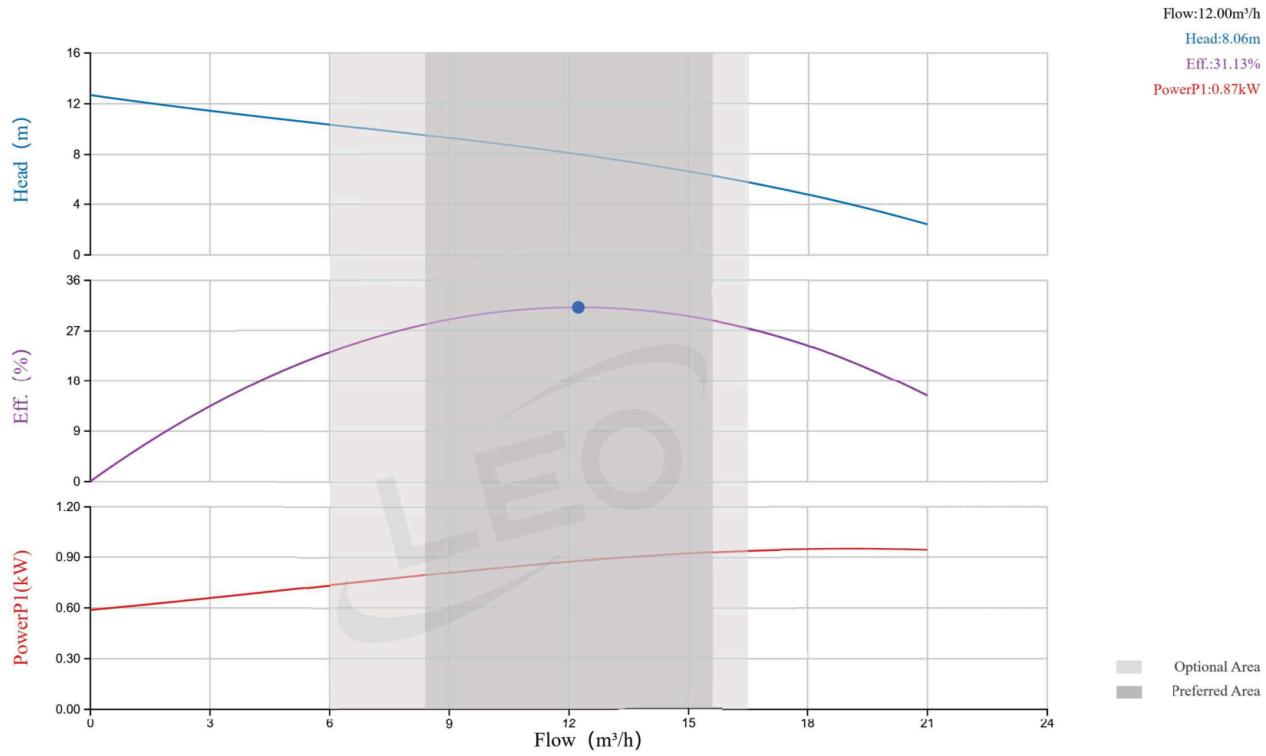
Weight/Packaging

Gross weight(kg):	39.2	Package size(mm):	740*250*275

Area Range Parameters

Max Q(m^3/h):	16.5	Allowable Minimum (m^3/h):	6.0
Allowable Maximum (m^3/h):	16.5	Min Value Optimal area (m^3/h):	8.4
Max Value Optimal area (m^3/h):	15.6		

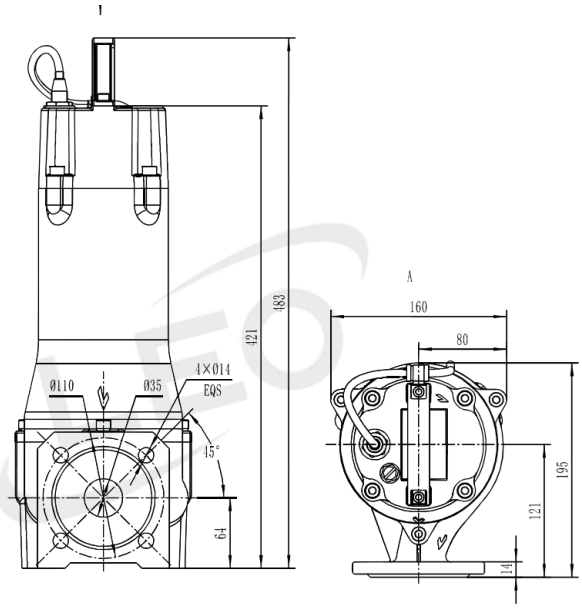
Performance Curve



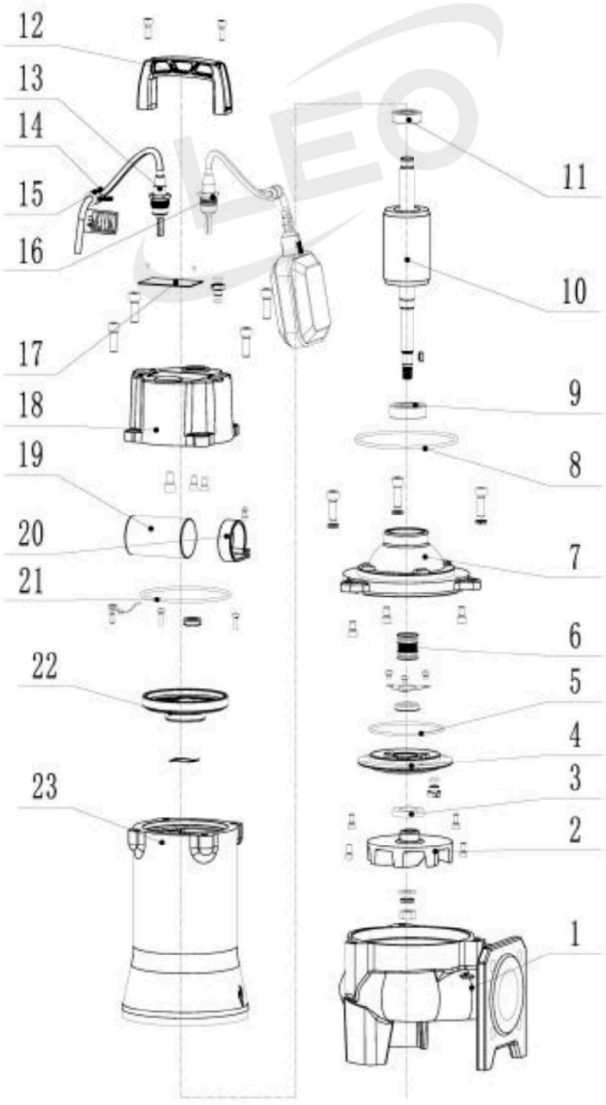
Basic Parameters

	Pump flow rate(m^3/h)	Total manometric head H(m)	Overall efficiency(%)	Pump power input(kW)
Rated Point	12.00	8.00	31.12	0.874
Work Point	12.00	8.06	31.13	0.87
Minimum Allowed Point	6.00	10.36	23.09	0.73
Maximum Allowed Point	16.50	5.75	27.38	0.93
Optimal Working Area (Small)	8.40	9.49	28.10	0.79
Optimal Working Area (Large)	15.60	6.28	28.80	0.93

Shape & Size



Exploded View



№	Part Name	Material
23	Stator	
22	End Cover	HT200
21	O_sealing ring	NBR
20	Capacitance clamp	PP-GF10
19	Double lead capacitor	
18	Top cover	HT200
17	nameplate	304
16	float switch	
15	Cable clamp	304
14	Cable protective case	
13	Cable Assembly	
12	Handle	ZG45
11	Bearing	
10	Rotor	
9	Bearing	
8	O_sealing ring	NBR
7	oil chanber	HT200
6	Double mechanical seal	
5	O_sealing ring	NBR
4	Casing cover	HT200
3	Skeleton oil seal	
2	Impeller	HT200
1	Pump body	HT200

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