

PRODUCT SELECTION REPORT

Model:50WQD15-9-1.1T/QG
Name:Submersible Sewage Pump



LEO GROUP PUMP CO.,LTD.

2025.10.13

Project Name: Koslan

Personal Name: Koslan
Company Address:

Company Name:

Website: www.leopump.com
Company Name:

Product Model: 50WQD15-9-1.1T/QG
LEO GROUP PUMP CO., LTD.

Product Recommendations

Flow(m³/h): 15 Head(m): 9 Power(kW): 1.1

Based on provided information and product parameters, LEO PUMP recommends model:
50WQD15-9-1.1T/QG

Introduction

Application

Wastewater drainage in factories, construction sites and commercial facilities;
Drainage system in municipal sewage treatment plants;
Drainage station in residential quarters;
Municipal projects;
Methane pools and field irrigation in countryside.

Pump

Cable Length: Standard with 10m;
All electrophoresis casting parts. High strength cutting system;
Flexible installations with hoses, pipes or quick-coupling;
Double-end mechanical seal;
Stainless Steel welded shaft;
Liquid density $\leq 1.2 \times 10^3 \text{ kg/m}^3$;
Liquid temperature: 0 - 40°C;
Liquid PH value: 4 - 10;
Max. immersion Depth: 5m.

Product Parameters

Nameplate

Pump flow rate(m ³ /h):	15	Total manometric head H(m):	9
Overall efficiency(%):	30.96	Speed(rpm):	3000

Technical

Motor power(kW):	1.1	Curve tolerance:	GB/T 3216 Appendix A
Maximum lift(m):	14	Maximum use flow(m ³ /h):	25
Pump power input(kW):	1.188		

Material

Impeller:	HT200	Pump body:	HT200
Cylinder head:	HT200	Chassis:	HT200
Upper bearing seat:	HT200	Up cover:	HT200
Mechanical seal:		Upper: Ceramic/Carbon, &Lower: Sic/Carbon	

Working conditions

Max. liquid density(Kg/m ³):	1.05X10 ³ Kg/m ³	Max. ambient temperature(°C):	40
Max. liquid temperature(°C):	40	Max. Operating Pressure:	PN6
Max. immersion depth(m):	5		
Pumped medium:	It can pump sewage containing long fibers, plastic bags, cloth gloves, etc.		

Installation

Coupling Model:	DN50	Connection standard:	Hose connection
Pipe Diameter(mm):	50		

Motor

Motor phase:	Single phase	Protection class:	IP68
Motor poles:	2	Insulation class:	F
Motor power(kW) :	1.1	Frequency(Hz):	50
Rated voltage(V):	220	Rated current(A):	6.5
Power factor:	0.87	Drive end bearing:	6204
Non-drive end bearing:	6203	Starting current(A):	30

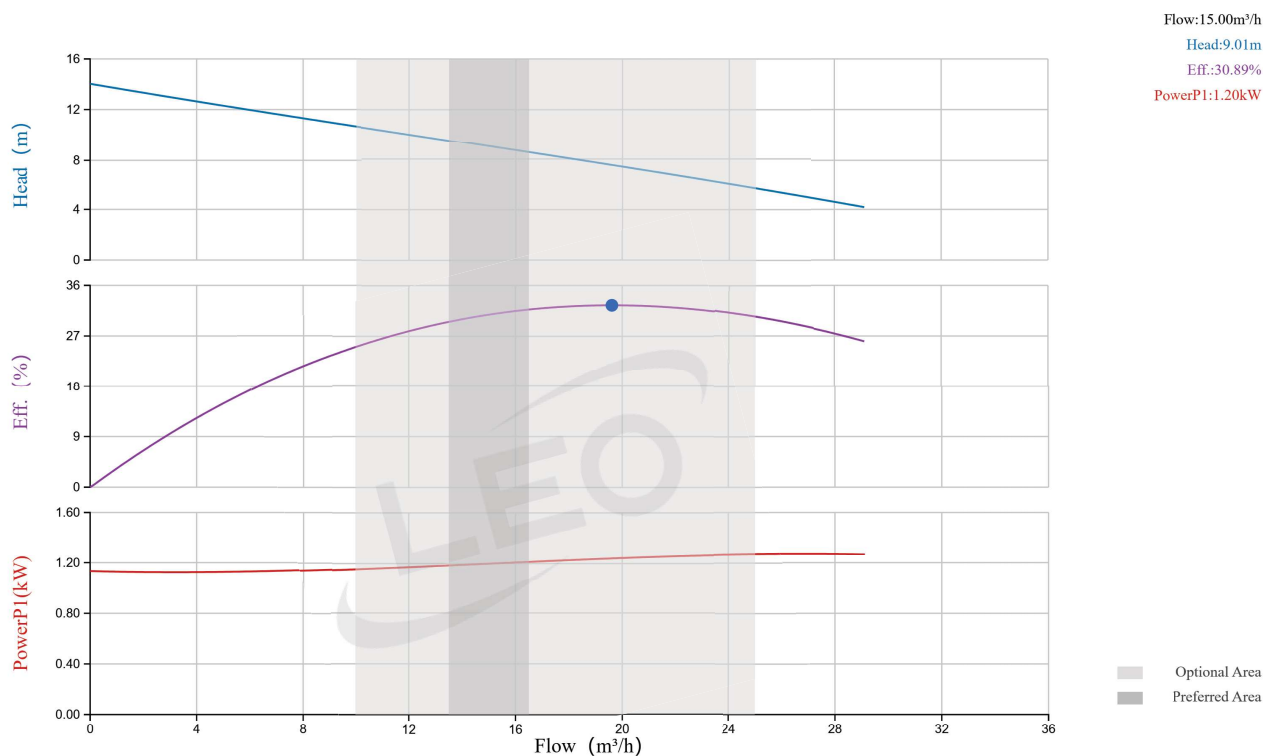
Weight/Packaging

Gross weight(kg):	27	Package size(mm):	544*269*244
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Area Range Parameters

Max Q(m ³ /h):	25.0	Allowable Minimum (m ³ /h):	10.0
Allowable Maximum (m ³ /h):	25.0	Min Value Optimal area (m ³ /h):	13.5
Max Value Optimal area (m ³ /h):	16.5		

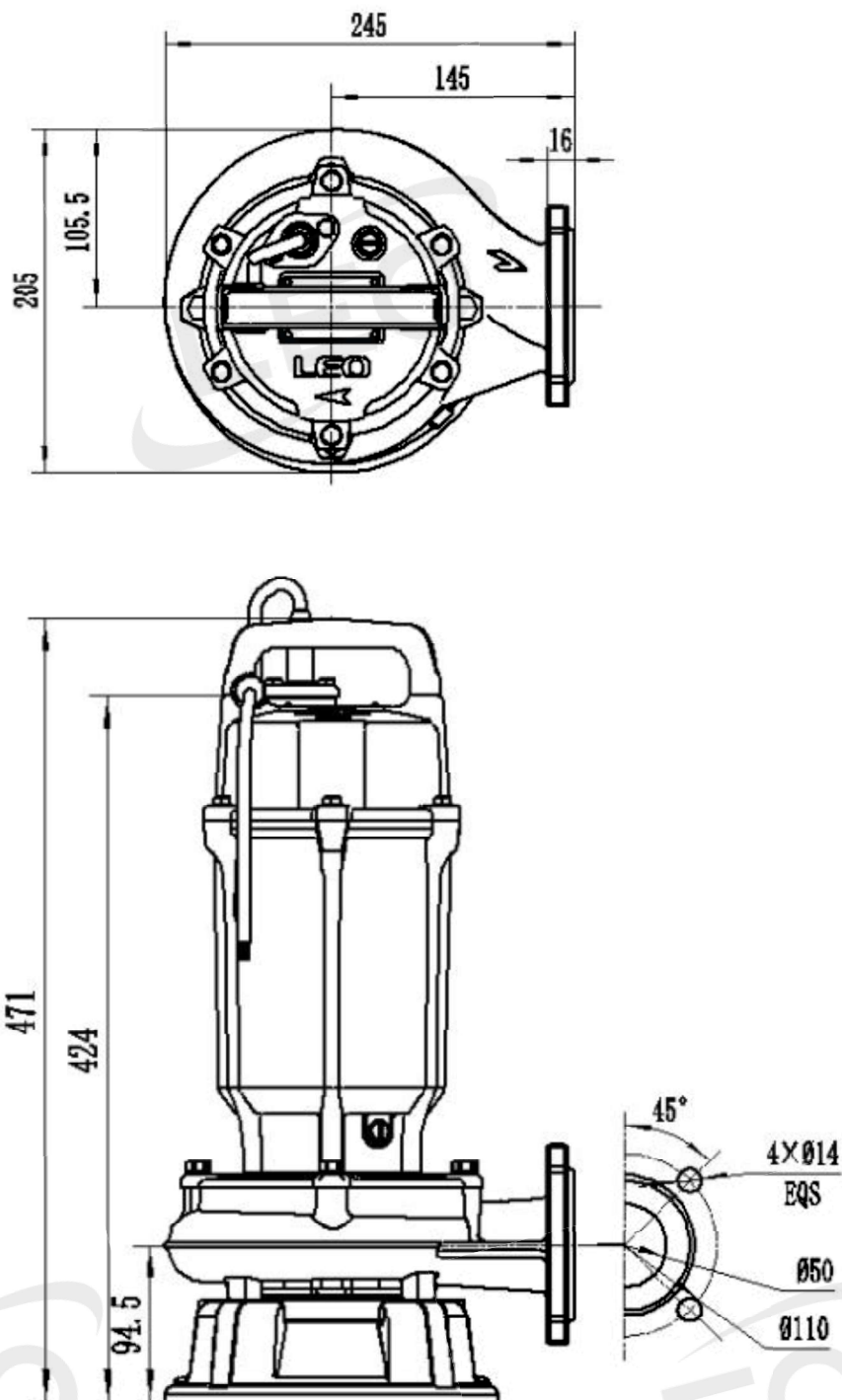
Performance Curve



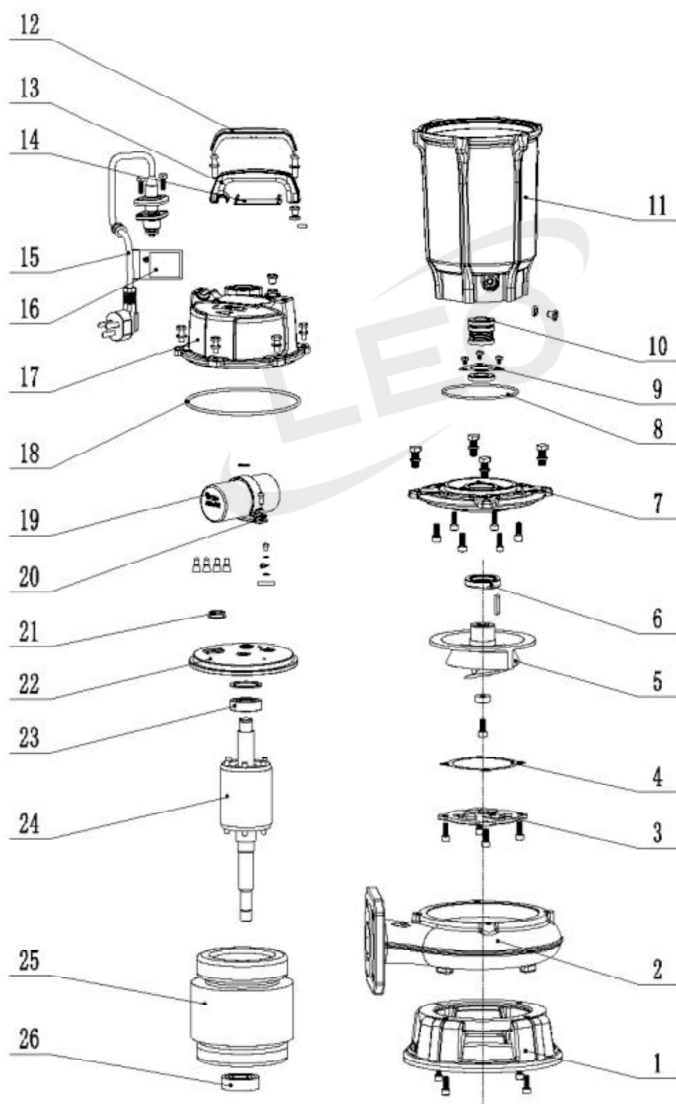
Basic Parameters

	Pump flow rate(m ³ /h)	Total manometric head H(m)	Overall efficiency(%)	Pump power input(kW)
Rated Point	15.00	9.00	30.96	1.188
Work Point	15.00	9.01	30.89	1.20
Minimum Allowed Point	10.00	10.65	25.09	1.15
Maximum Allowed Point	25.00	5.68	30.37	1.27
Optimal Working Area (Small)	13.50	9.52	29.56	1.18
Optimal Working Area (Large)	16.50	8.55	31.74	1.21

Shape & Size



Exploded View



26	Bearing	
25	Stator	
24	Rotor	
23	Bearing	
22	Upper cover	HT200
21	Cable holder	NBR
20	Capacitor clamp	PP-GF10
19	Capacitor	
18	O-ring	NBR
17	Up cover	HT200
16	Warning slogans	PET
15	Power cable	
14	Nameplate	304
13	Handle	PP-GF10
12	Handle lining	PP-GF10
11	Motor shell	HT200
10	Mechanical seal	
9	Mechanical seal pressing plate	304
8	O-ring	NBR
7	Pump cover	HT200
6	OIL SEAL	
5	Impeller	HT200
4	Paper gasket	Barley paper
3	Fixed cutter head	9Cr18
2	Pump body	HT200
1	Base frame	HT200
No.	Part	Material



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