PRODUCT SELECTION REPORT

Model:50WQD10-10-1.1TM/QG
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:** 50WQD10-10-1.1TM/QG
Company Name: LEO GROUP PUMP CO., LTD.

Product Recommendations

Flow(m^3/h): 10 **Head(m):** 10 **Power(kW):** 1.1

Based on provided information and product parameters, LEO PUMP recommends model:
50WQD10-10-1.1TM/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 Stell welded shaft;
Liquid density ≤1.2x10³kg/m³;
Liquid temperature: 0 - 40°C;
Liquid PH value: 4 -10;
Max.immersion Depth: 5m.

Product Parameters

Nameplate

Pump flow rate(m^3/h):	10	Total manometric head H(m):	10
Overall efficiency(%):	18.91	Speed(rpm):	3000

Technical

Motor power(kW):	1.1	Curve tolerance:	GB/T 3216 AppendixA
Maximum lift(m):	17.5	Maximum use flow(m^3/h):	13
Pump power input(kW):	1.441		

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/m³):	1.05X10³Kg/m³	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

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):	7.2
Power factor:	0.93	Drive end bearing:	6204
Non-drive end bearing:	6203	Starting current(A):	30

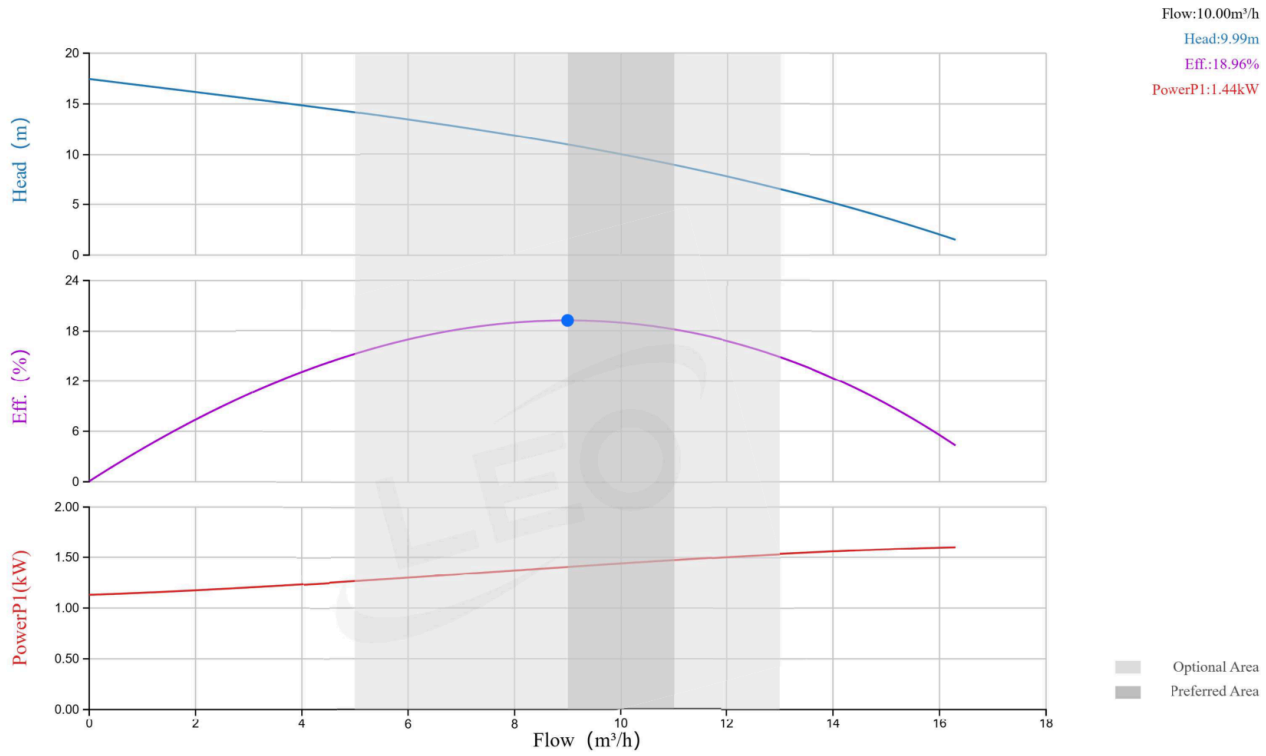
Weight/Packaging

Gross weight(kg):	26	Package size(mm):	544*269*244

Area Range Parameters

Max Q(m³/h):	13.0	Allowable Minimum (m³/h):	5.0
Allowable Maximum (m³/h):	13.0	Min Value Optimal area (m³/h):	9.0
Max Value Optimal area (m³/h):	11.0		

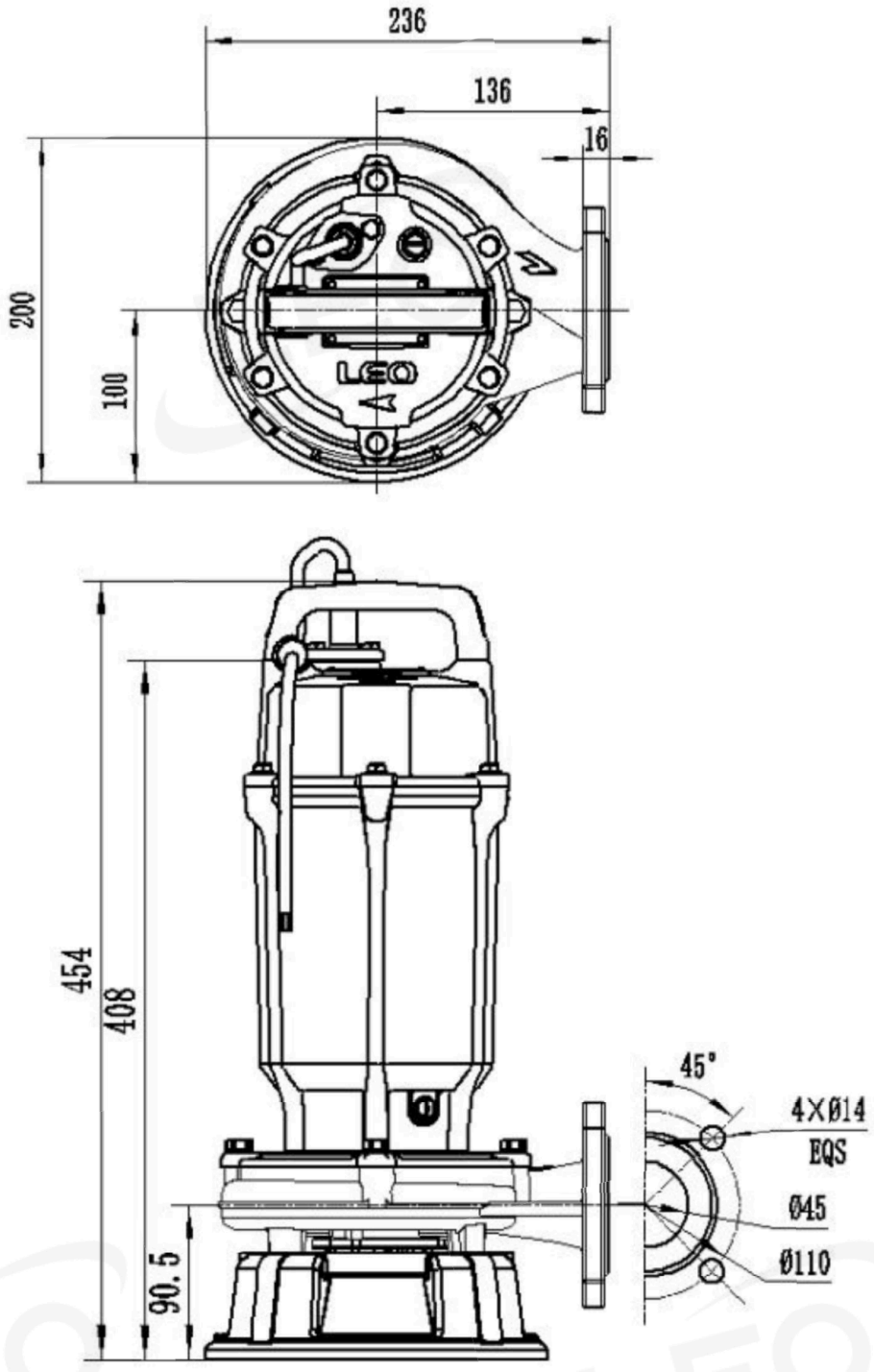
Performance Curve



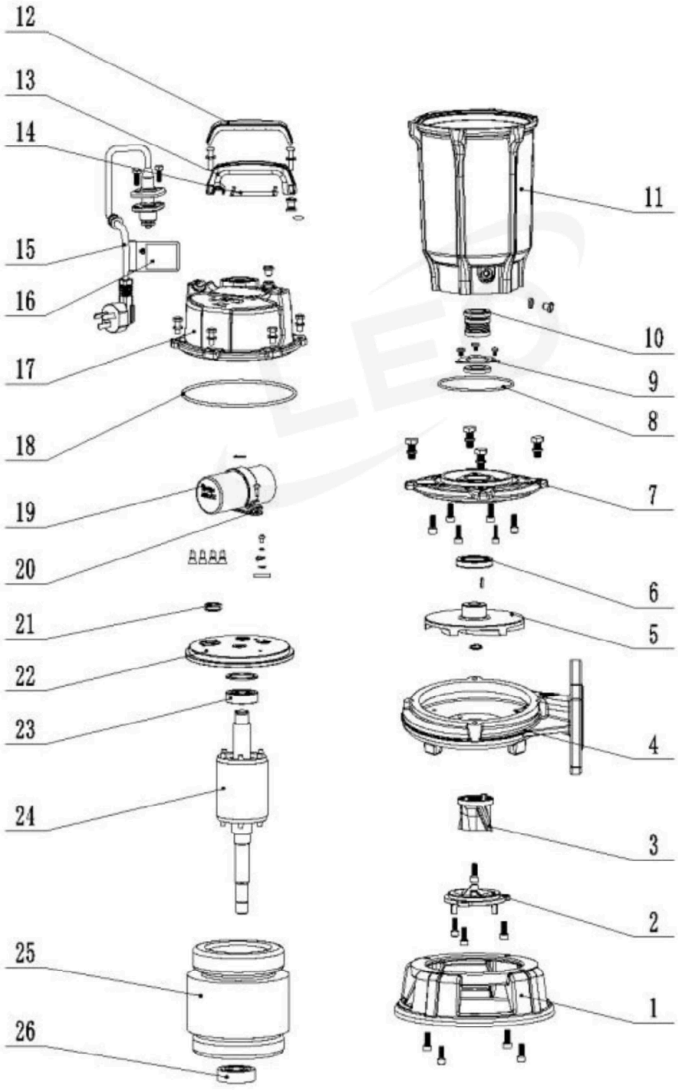
Basic Parameters

	Pump flow rate(m³/h)	Total manometric head H(m)	Overall efficiency(%)	Pump power input(kW)
Rated Point	10.00	10.00	18.91	1.441
Work Point	10.00	9.99	18.96	1.44
Minimum Allowed Point	5.00	14.17	15.24	1.26
Maximum Allowed Point	13.00	6.52	14.88	1.53
Optimal Working Area (Small)	9.00	10.95	19.22	1.40
Optimal Working Area (Large)	11.00	8.93	18.15	1.47

Shape & Size



Exploded View



No.	Part	Material
26	Bearing	
25	定子	
24	转子	
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	Pump body	HT200
3	Rotary cutterhead	9Cr18
2	Fixed cutter head	9Cr18
1	Base frame	HT200

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