

PRODUCT SELECTION REPORT

Model:80WQ50-13-4T/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: 80WQ50-13-4T/QG
LEO GROUP PUMP CO., LTD.

Product Recommendations

Flow(m³/h): 50 Head(m): 13 Power(kW): 4

Based on provided information and product parameters, LEO PUMP recommends model:
80WQ50-13-4T/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):	50	Total manometric head H(m):	13
Overall efficiency(%):	51.85	Speed(rpm):	3000

Technical

Motor power(kW):	4	Curve tolerance:	GB/T 3216 AppendixA
Maximum lift(m):	24	Maximum use flow(m ³ /h):	70
Pump power input(kW):	3.415		

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:	DN80	Connection standard:	Hose connection
Pipe Diameter(mm):	80		

Motor

Motor phase:	Three phase	Protection class:	IP68
Motor poles:	2	Insulation class:	F
Motor power(kW) :	4	Frequency(Hz):	50
Rated voltage(V):	380	Rated current(A):	8
Power factor:	0.81	Drive end bearing:	6306
Non-drive end bearing:	6304	Starting current(A):	61

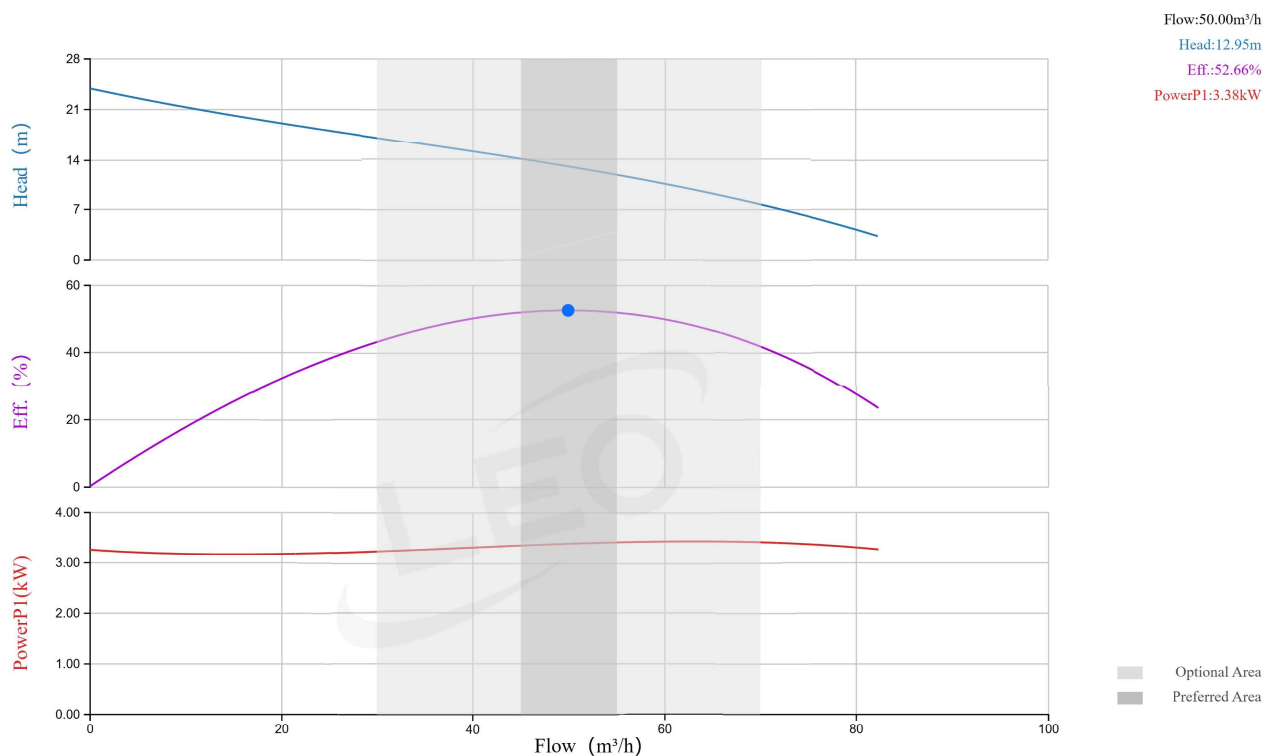
Weight/Packaging

Gross weight(kg):	56	Package size(mm):	744*324*289
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Area Range Parameters

Max Q(m ³ /h):	70.0	Allowable Minimum (m ³ /h):	30.0
Allowable Maximum (m ³ /h):	70.0	Min Value Optimal area (m ³ /h):	45.0
Max Value Optimal area (m ³ /h):	55.0		

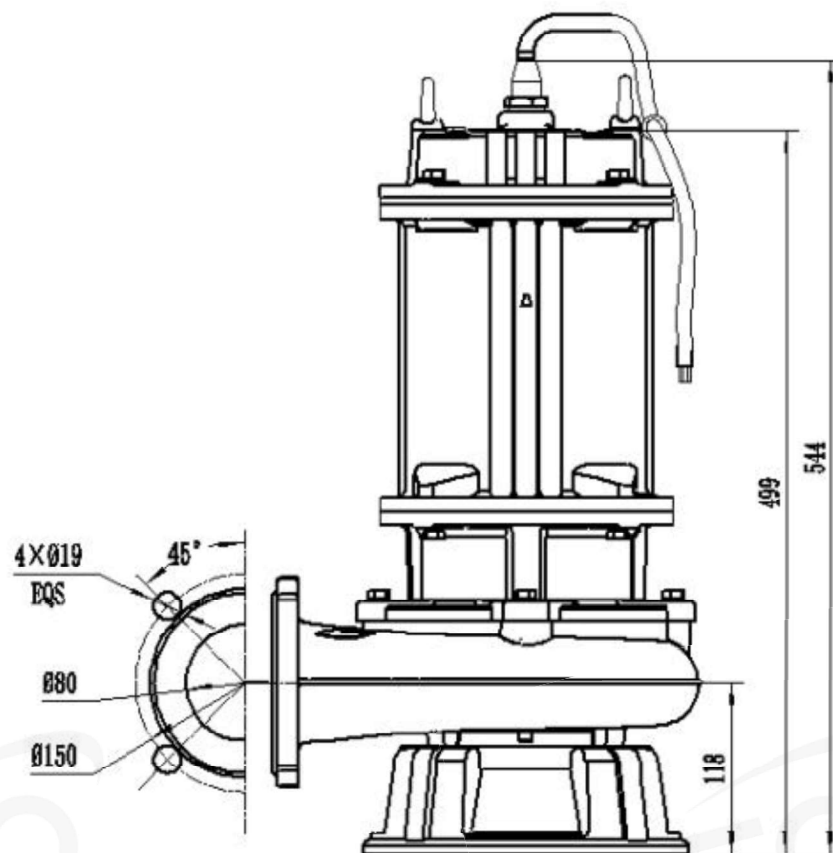
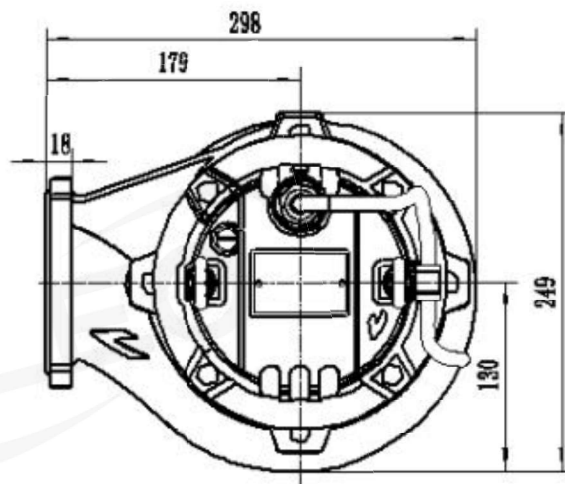
Performance Curve



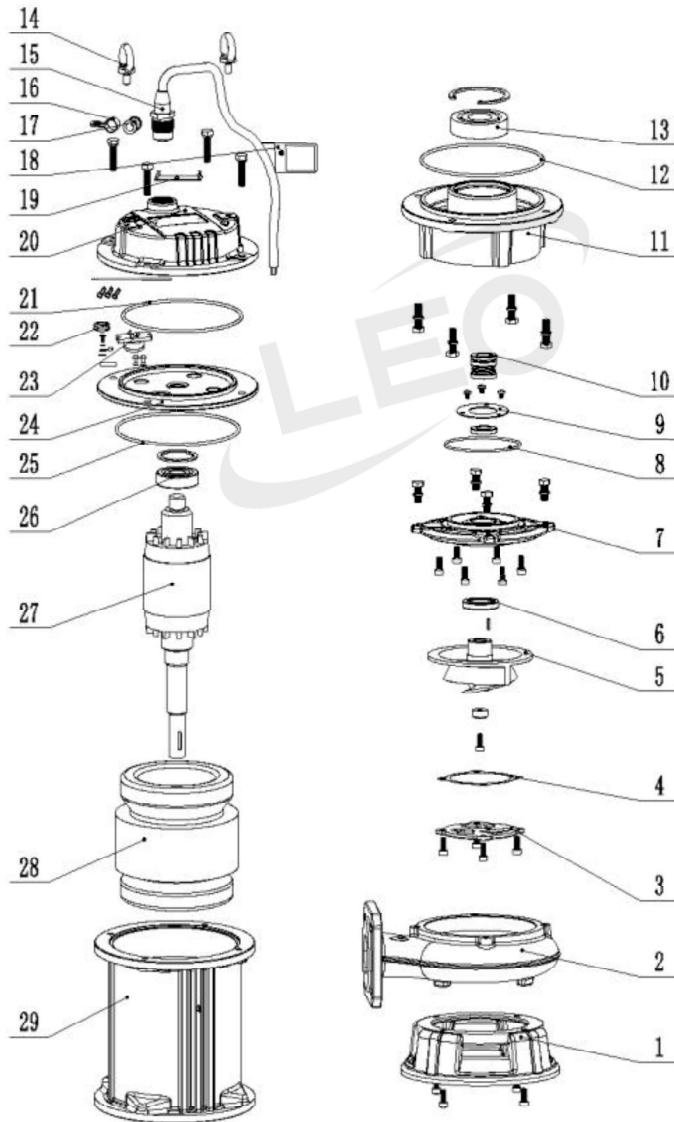
Basic Parameters

	Pump flow rate(m³/h)	Total manometric head H(m)	Overall efficiency(%)	Pump power input(kW)
Rated Point	50.00	13.00	51.85	3.415
Work Point	50.00	12.95	52.66	3.38
Minimum Allowed Point	30.00	17.05	43.32	3.23
Maximum Allowed Point	70.00	7.70	41.85	3.41
Optimal Working Area (Small)	45.00	14.04	52.05	3.34
Optimal Working Area (Large)	55.00	11.81	52.00	3.41

Shape & Size



Exploded View



29	Motor shell	HT200
28	Stator	
27	Rotor	
26	Bearing	
25	O-ring	NBR
24	Up cover	HT200
23	Over current protector	
22	Cable holder	NBR
21	O-ring	NBR
20	Up cover	HT200
19	Nameplate	304
18	Warning slogans	PET
17	Cable clamp sheath	NBR
16	Cable clamp	304
15	Power cable	
14	Ring	304
13	Bearing	
12	O-ring	NBR
11	Oil chamber	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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