

PRODUCT SELECTION REPORT

Model:50WQD10-20-1.5TA
Name:Submersible Sewage Pump



Project Name:

Personal Name:
Company Address:

Company Name:

Website: www.leopump.com
Company Name:

Product Model: 50WQD10-20-1.5TA
LEO GROUP PUMP CO., LTD.

Product Recommendations

Flow(m³/h): 10 Head(m): 20 Power(kW): 1.5

Based on provided information and product parameters, LEO PUMP recommends model: **50WQD10-20-1.5TA**

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

- Max. immersion depth: 10m
- 0.25-4kw. Standard PN6 pump body with hose coupling 5.5-7.5kW. Standard PN6 pump body with hose coupling. optional PN10 pump body, without hose coupling 11-22kW. Standard PN10 pump body, without hose coupling. optional PN6 pump body with hose coupling
- Can be equipped with hose connection choose flange connection
- Cable Length: 10m (under 30kW), 8m (30-45kW)
- Max. liquid temperature: up to +40°C
- Liquid PH value: 4-10
- Max. liquid density: 1.3x10³kg/m³
- Allowed by the particle diameter: 20-80mm
- Single phase optional

Motor

- Copper winding
- Insulation class: F
- Enclosures class: IP68
- Motor protection: 0.25 - 4kW(5.5kW and above need control cabinet)
- 0.25-4kW: Star connection; 5.5-37kW: Delta connection; 45kW: Star-triangle connection

Product Parameters

Nameplate

Pump flow rate(m³/h): 10 Total manometric head H(m): 20

Overall efficiency(%): 31.21 Speed(rpm): 3450

Technical

Motor power(kW):	1.5	Curve tolerance:	GB/T 3216 Appendix A
Maximum lift(m):	22	Maximum use flow(m ³ /h):	20
maximum diving depth (m):	10	maximum diameter of particles (mm):	20
Pump power input(kW):	1.79		

Material

Impeller:	HT200	Pump body:	HT200
Cylinder head:	HT200	Chassis:	HT200
Upper bearing seat:	HT200	Up cover:	HT200
Mechanical seal:			Double mechanical seal202-20

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
pipe diameter (mm):	50	connection method:	Hose connection
Pumped medium:	It can pump sewage containing long fibers, plastic bags, cloth gloves, etc.		

Installation

Coupling Model: DN50

Motor

Motor phase:	Single phase	Protection class:	IP68
Motor poles:	2	Insulation class:	F
Motor power(kW) :	1.5	Rated current(A):	10
Power factor:	0.83	Drive end bearing:	6305
Non-drive end bearing:	6203	Efficiency(%):	1.5
Cable length(m):	10	Power frequency(Hz):	60
Rated voltage(V):	220		

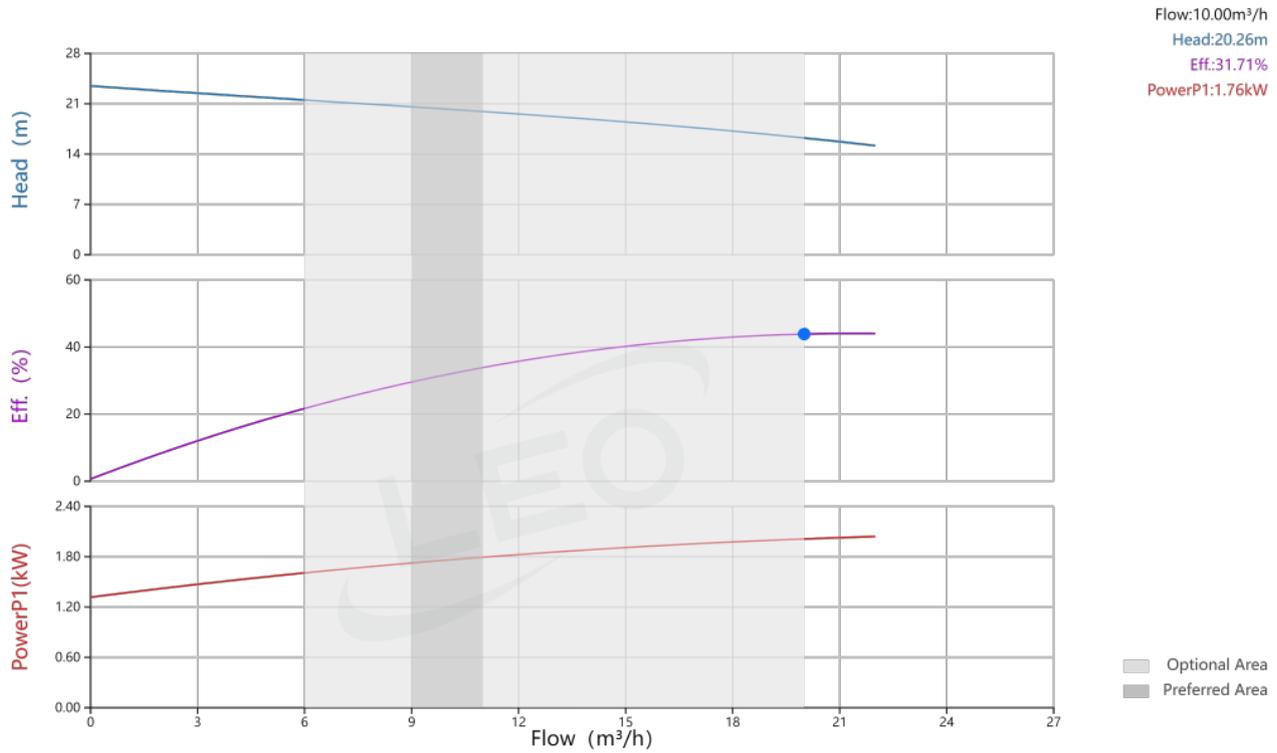
Weight/Packaging

Gross weight(kg): 36 Package size(mm): 604*269*244

Area Range Parameters

Max Q(m ³ /h):	0.0	Allowable Minimum (m ³ /h):	6.0
Allowable Maximum (m ³ /h):	20.0	Min Value Optimal area (m ³ /h):	9.0
Max Value Optimal area (m ³ /h):	11.0		

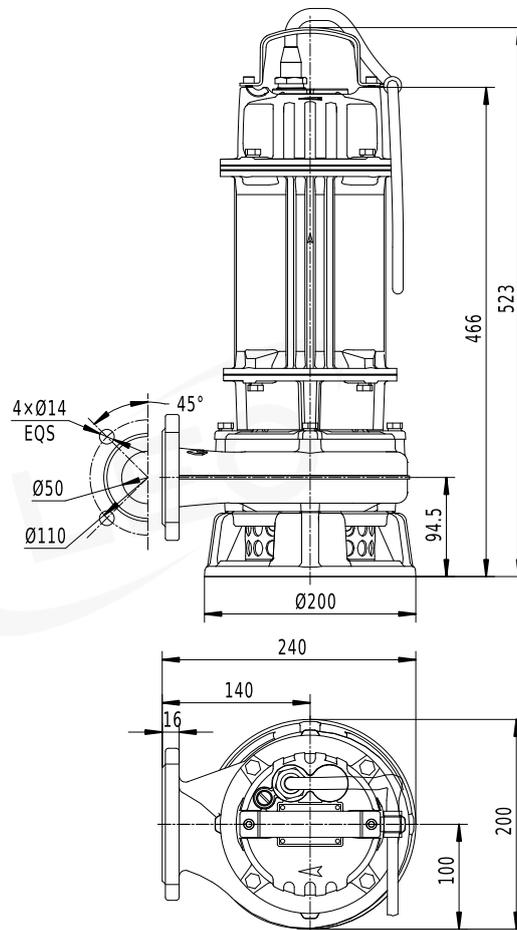
Performance Curve



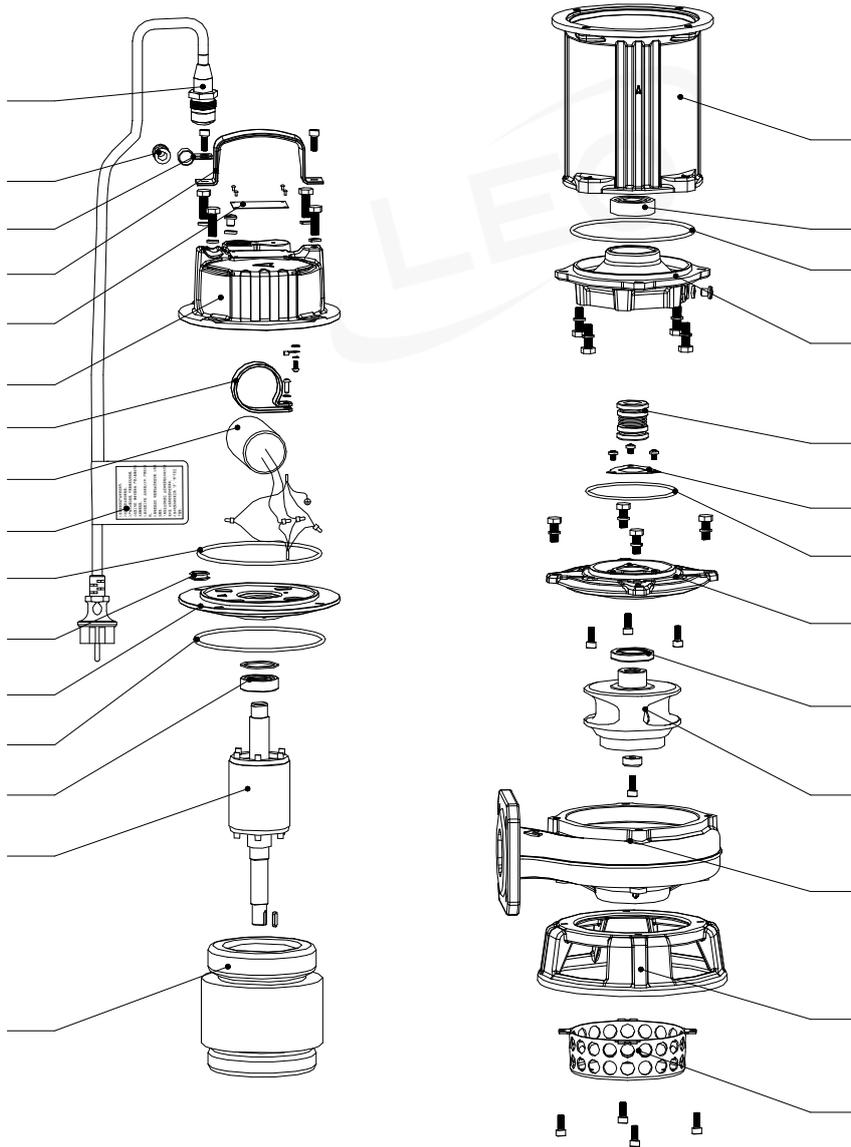
Basic Parameters

	Pump flow rate(m ³ /h)	Total manometric head H(m)	Overall efficiency(%)	Pump power input(kW)
Rated Point	10.00	20.00	31.21	1.79
Work Point	10.00	20.26	31.71	1.76
Minimum Allowed Point	6.00	21.52	21.66	1.60
Maximum Allowed Point	20.00	16.24	43.85	2.01
Optimal Working Area (Small)	9.00	20.57	29.56	1.72
Optimal Working Area (Large)	11.00	19.91	33.87	1.79

Shape & Size



Exploded View



29	Stator	
28	Rotor	
27	Bearing	
26	O-ring seal	NBR
25	Upper end cover	HT200
24	Outlet nozzle	NBR
23	O-ring seal	NBR
22	Warning label	Poly Acis Silver Adhesive
21	Capacitor	
20	Capacitor clamp	PP-GF10
19	Top cover	HT200
18	Nameplate	304
17	Handle	304
16	Cable clamp	Stainless steel
15	Wire clamp jacket	NBR
14	Plug cord assembly	
13	Barrel	HT200
12	Bearing	
11	O-ring seal	NBR
10	Oil chamber	HT200
9	Double mechanical seal	
8	Mechanical seal pressure plate	201
7	O-ring seal	NBR
6	Pump cover	HT200
5	Framework oil seal	
4	Impeller	HT200
3	Pump body	HT200
2	Base	HT200
1	Filter	08F
No.	Part Name	Material



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* LEO reserves all the right of products modification without prior notification



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