

PRODUCT SELECTION REPORT

Model: 150WQ180-11-11/4

Name: Submersible Sewage Pump



LEO GROUP PUMP CO.,LTD.

2024.8.12

Project Name: LEO

Personal Name: LEO
Company Address:

Company Name:

Website: www.leopump.com
Company Name:

Product Model: 150WQ180-11-11/4
LEO GROUP PUMP CO., LTD.

Product Recommendations

Power(kW): 11 Flow(m³/h): 180
Head(m): 11

Based on provided information and product parameters, LEO PUMP recommends model:
150WQ180-11-11/4

Introduce

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(0.75-5.5kW-2P)20m(7.5kW-2P/5.5-45kW-4P);
Cable Length:10m (under 30kW),8m (30~45kW);
Max. liquid temperature: up to +40°C;
Liquid PH value: 6 -10;
Max.liquid density: 1.3x10³kg/m³;
Allowed by the particle diameter: 20 - 80mm;
Float switch: single phase.

Motor

Copper winding
Insulation class:F;
Protection class:IP68;
Motor protection: 0.25 - 4kW(5.5kW and above need control cabinet);
Start method: Below 45kW is direct start, 45kW is star-delta start.

Product Parameters

Nameplate

Pump flow rate(m³/h): 180 Total manometric head H(m): 11
Pump efficiency(%): 54.59 Speed(rpm): 1500

Technical

Motor power(kW):	11	Pump power input(kW):	9.88
Curve tolerance:	GB/T 3216Appendix A	Maximum lift(m):	26.5
Maximum use flow(m ³ / h):	235		

Material

Impeller:	HT200	Pump body:	HT200
Cylinder head:	HT200	Chassis:	HT200
Upper bearing seat:	HT200	Seal ring:	
Guide:		Hanging chain:	
Up cover:	HT200	Motor casing:	TF PB20/L01-45-39U2Q2PF
Mechanical seal:			

Working conditions

Medium temperature high(°C):		Max. Particles Size(mm):	45
Max. liquid density(Kg/m ³):	1.3X10 ³ Kg/m ³	Max. ambient temperature(°C):	40
Max. liquid temperature(°C):	40	Max. Operating Pressure(Mpa):	PN10
Volume ratio of solid phase:		Flange rating:	
Max. immersion depth(m):	10		
Pumped medium:	It can pump sewage containing long fibers, plastic bags, cloth gloves, etc.		

Installation

Coupling Model:	DN150	Installation:	Wet installation
Outlet diameter(mm):	150	Connection standard:	Flange connection
Pipe Diameter(mm):	150	Installation form:	Vertical
Optional accessories:	Flange connection		

Motor

Motor phase:	Three phase	Protection class:	IP×8
Motor poles:	4	Insulation class:	F
Motor power(kW) :	11	Frequency(Hz):	50
Rated voltage(V):	380	Rated current(A):	20
Power factor:	0.82	Drive end bearing:	3310
Non-drive end bearing:	6310	Controller:	
Outer diameter of stator(mm):			

Weight/Packaging

Gross weight(kg):	286	Package size(mm):	616*520*1388
Pump weight(kg):			

Other

Monitoring point:

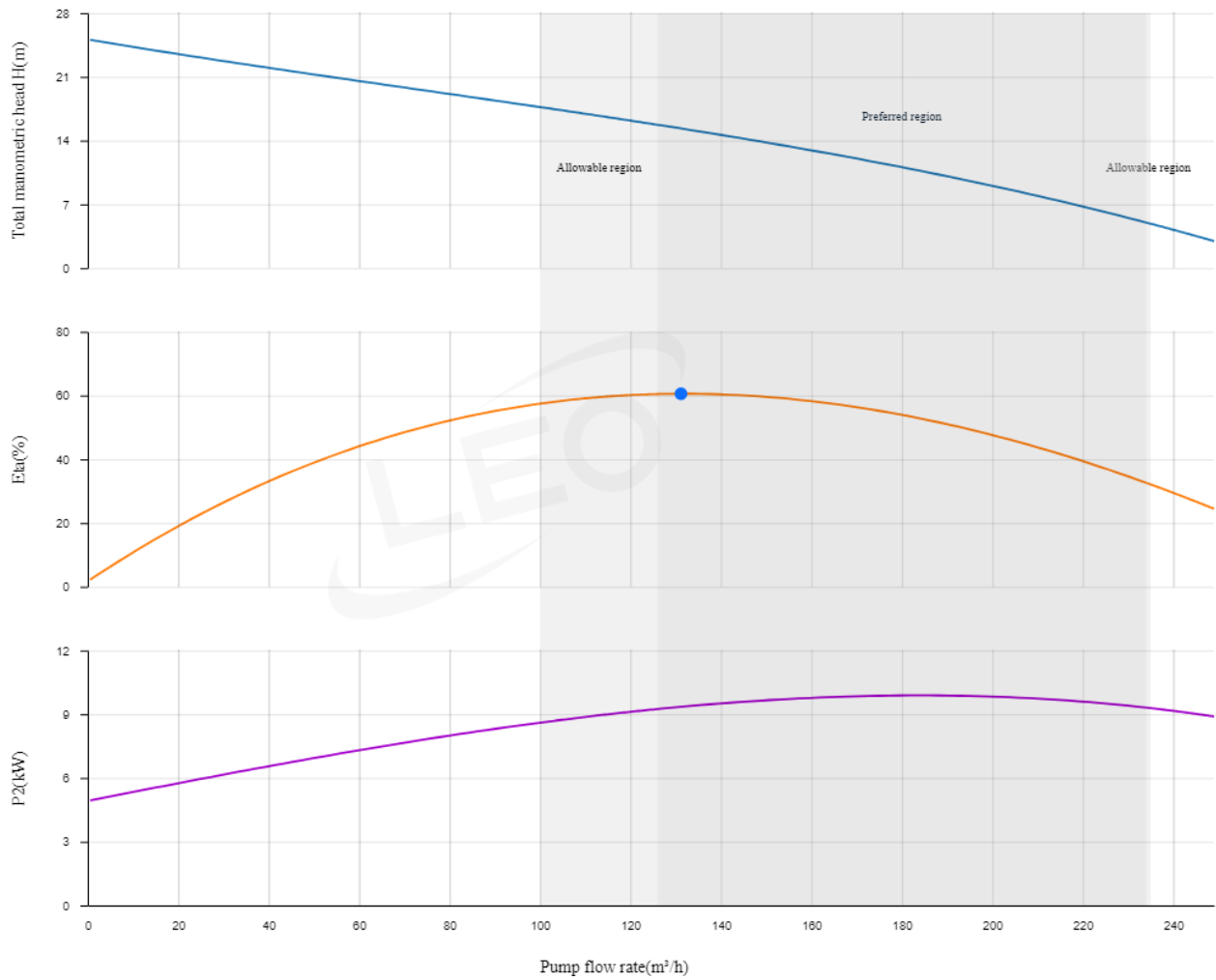
The protection function is optional

Oil&water protection:	Lower leakage protection:
Overheat protection:	

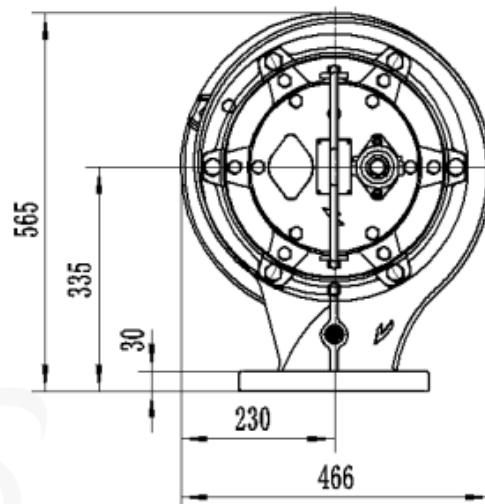
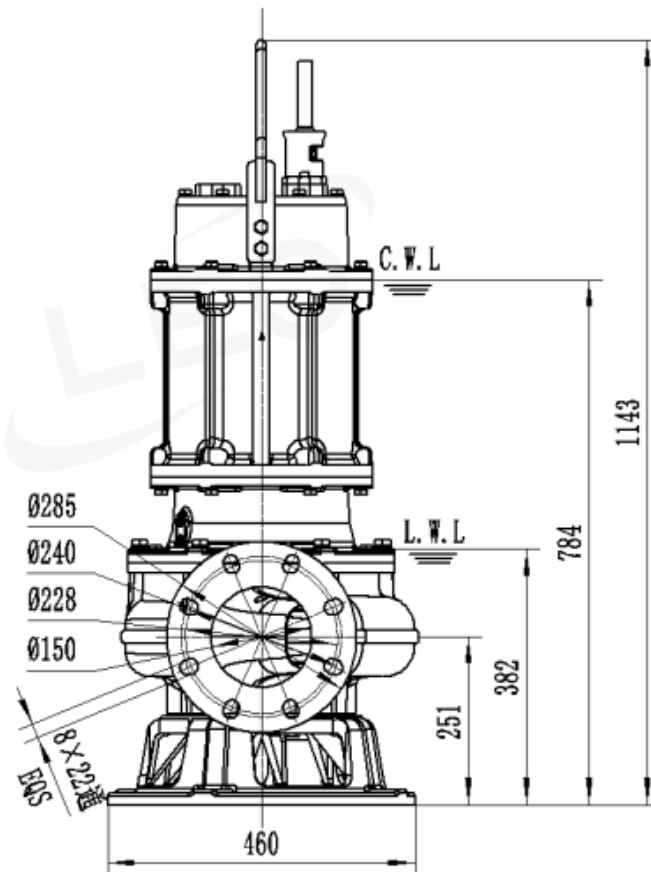
Area Range Parameters

Max Q(m ³ /h):	235	Allowable Minimum (m ³ /h):	100
Allowable Maximum (m ³ /h):	235	Min Value Optimal area (m ³ /h):	126
Max Value Optimal area (m ³ /h):	234		

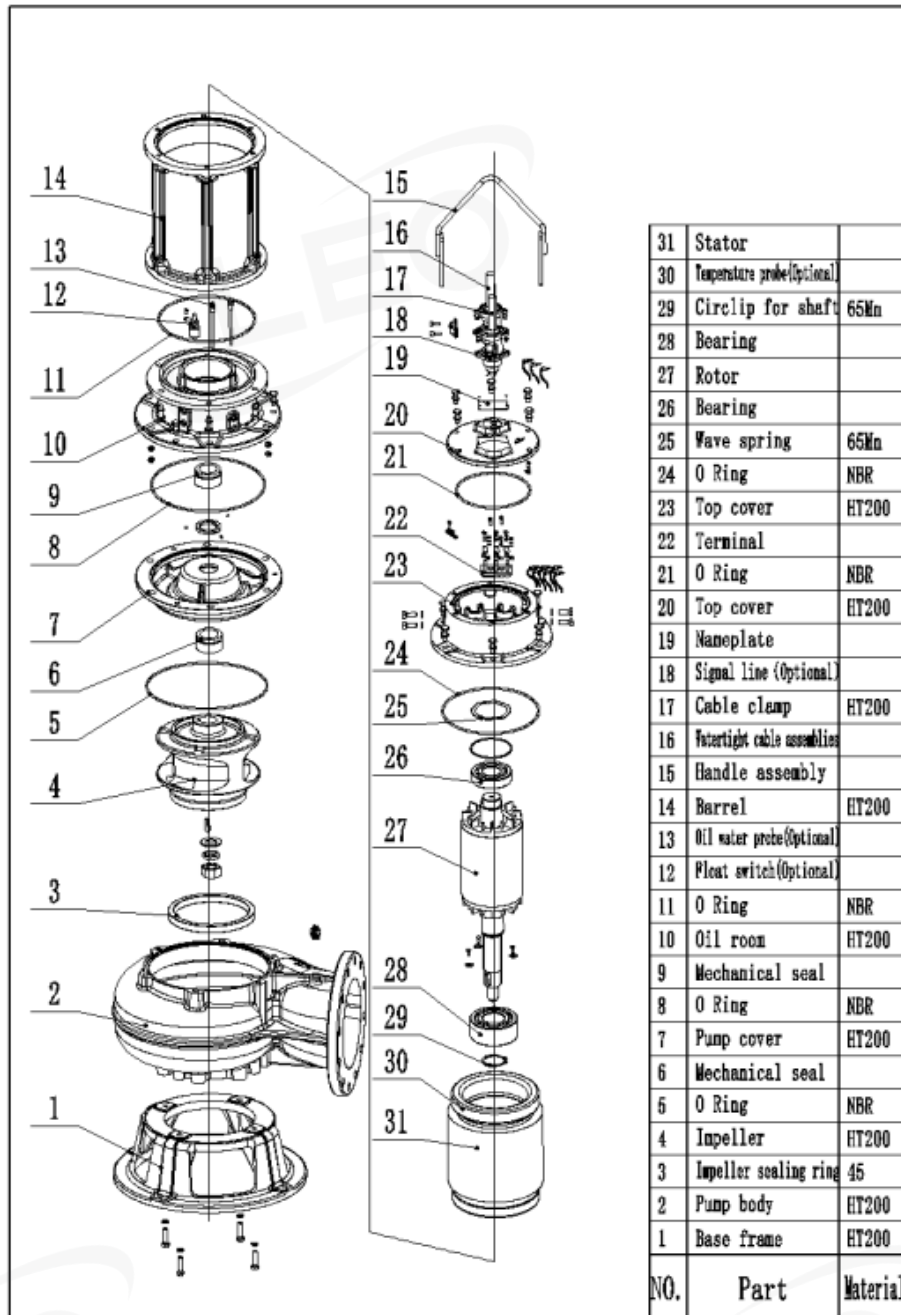
Performance Curve



Shape & Size



Exploded View





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



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