

	Product Information LPP50-81-22/2	Manufacturer	LEO
		Address	China,Zhejiang,Wenling
		Contact	0576-89988888
		Date	2024/04/23
Project Name		Client Name	Heatinvest
		Client Addr.	
Item NO		Contacts	
		Contact	

Part NO.	LPP50-81-22/2		
Product Picture		Note	
		This series products are vertical in-line centrifugal pump. Standard configuration Mechanical sealstandard motor. In daily maintenance the motor and impeller can be removed from the pump body for the maintenance and repairno need to remove pump body from the pipeline. Optimization design of impeller by CFD fluid simulation and analysis technologyless axial force longer bearing life. Appearance designed by Italy professional shape design teamthe most advanced modular design concept. The surface of the whole machine adopts electrophoretic coating process, have better anti-corrosion effect.	

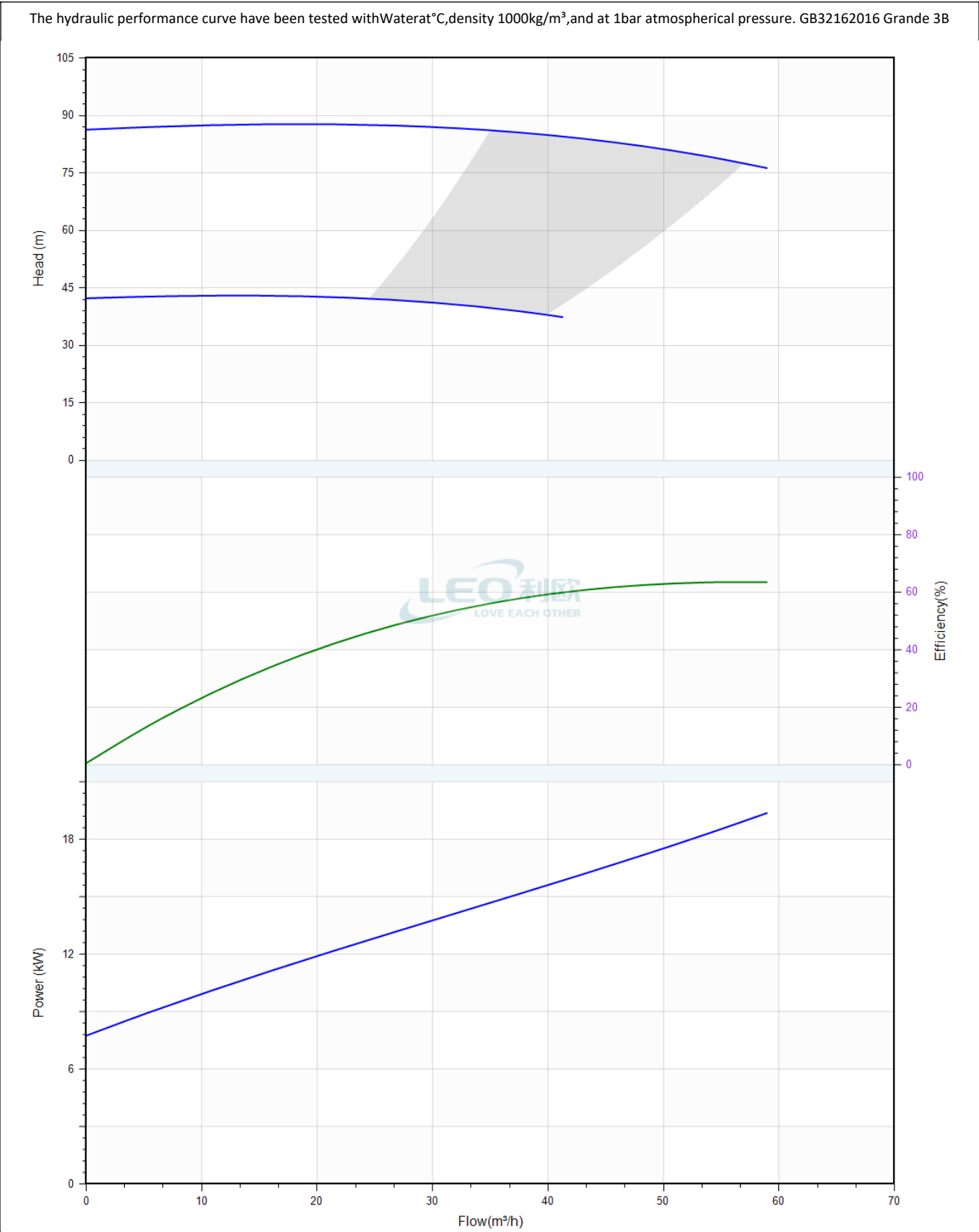
Nameplate parameters	
flow	50 m³/h
head	81 m
speed	2950 rpm
number of stages	1
Technical	
Curve tolerance	IS09906 AnnexA
Maximum lift (m)	88
Minimum usage flow (m³/ h)	5
Maximum use flow (m³/ h)	59
Material	
Impeller	HT200
Pump inlet	HT200
Pump shaft	AISI304
Mechanical seal	SiC/C
O-ring	NBR
Working conditions	
Max. ambient temperature (°C)	40
Max. liquid temperature (°C)	90
Pumped medium	Thin, clean, non corrosive, non flammable and explosive liquid without solid particles and fibers.
Working pressure	16bar
Installation	
Inlet & Outlet Diameter	DN50
Connection standard	DIN
Motor	
Motor phase	Three phase
Protection class	IP55
Motor poles	2
Insulation class	F
Motor power (KW)	22KW
Frequency	50
Rated voltage (V)	380
Rated current (A)	40.5143351055502
Efficiency class	IE3
Power factor	0.89

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Drive end bearing	7311
Non-drive end bearing	7311
Efficiency (%)	92.7
Weight/Packaging	
Gross weight (kg)	274
Package size	1060*510*640



	Performance Curve LPP50-81-22/2	Manufacturer	LEO
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	Pump Technical Parameters LPP50-81-22/2	Manufacturer	LEO
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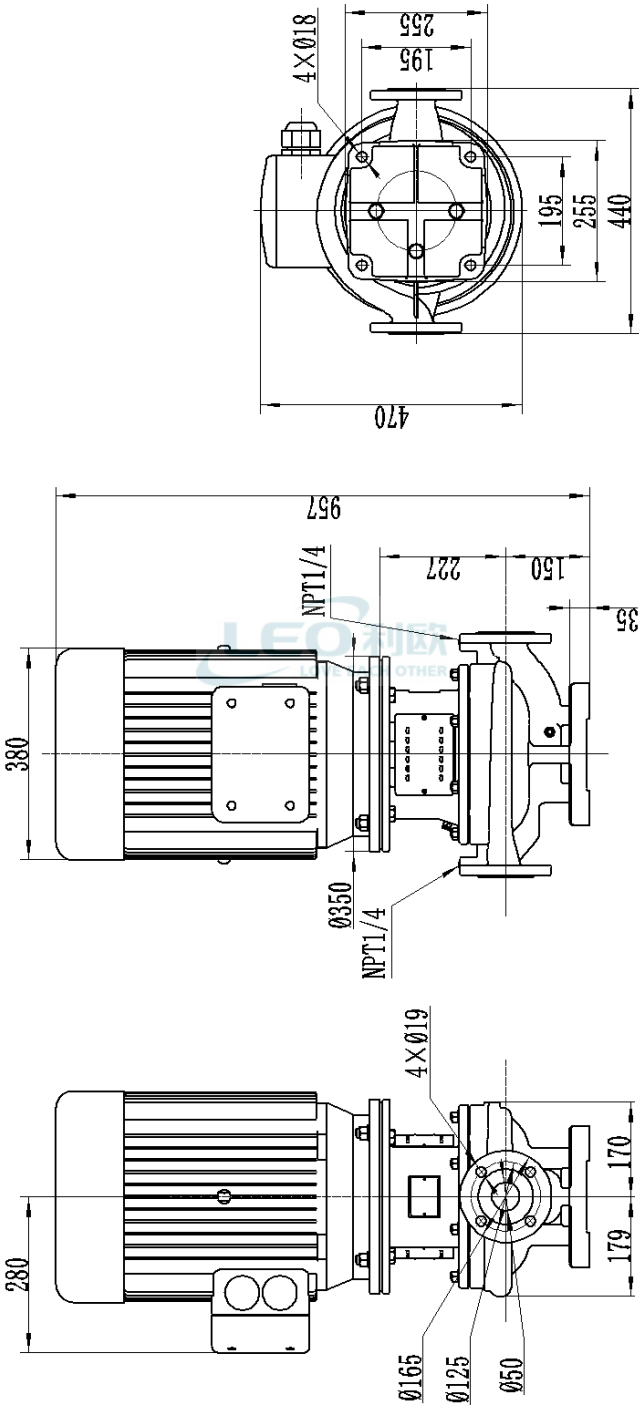
Rated parameters	
Pump model	LPP50-81-22/2
Part NO.	LPP50-81-22/2
Rated flow	50 m³/h
Rated head	81 m
Rated efficiency (%)	63
Power (kW)	17.5
Speed (rpm)	2950
Max impeller diameter (mm)	255
Medium	
Pumped medium	Water
Working temperature (°C)	20
Medium density (kg/m³)	1000
Viscosity (mm²/s)	1

The graph displays three performance metrics against flow rate (m³/h) from 0 to 70. The top panel shows Head (m) from 0 to 100, with a blue curve starting at 81m and a grey shaded region. The middle panel shows Efficiency (%) from 0 to 100, with a green curve starting at 63%. The bottom panel shows Power (kW) from 0 to 18, with a blue curve starting at 17.5kW.

Flow (m³/h)	Head (m)	Efficiency (%)	Power (kW)
0	81	63	17.5
10	80	65	16.5
20	79	68	15.5
30	78	70	14.5
40	76	72	13.5
50	73	73	12.5
60	68	73	11.5



	Installation picture LPP50-81-22/2	Manufacturer	LEO
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	Structure picture LPP50-81-22/2	Manufacturer	LEO
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LPP



29	Hex nut	
28	Washer	
27	Motor	
26	Hex head bolt	
25	Clamp ring	45
24	Pump shaft	304/45
23	Key	304
22	Release valve	304
21	Hex nut	HPb59-1
20	Washer	
19	Hex head bolt	
18	Motor frame	HT200
17	Rivet	
16	Nameplate	
15	Guard plate	304
14	Screw	
13	Mechanical seal	SiC/C
12	Impeller	HT200
11	Washer	304
10	Spring washer	304
9	Hex nut	304
8	O-ring	NBR
7	Double-head stud A type	
6	Hexagonal socket head plug	
5	Pump body	HT200
4	Hexagonal socket head plug	
3	Baseplate	HT200
2	Spring washer	
1	Hex head bolt	
No.	Part	Material

	Physical picture LPP50-81-22/2	Manufacturer	LEO
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