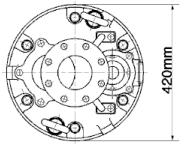
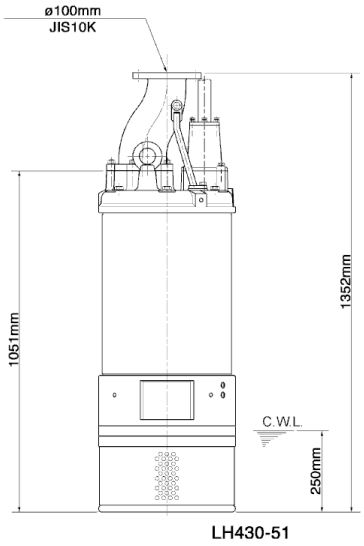
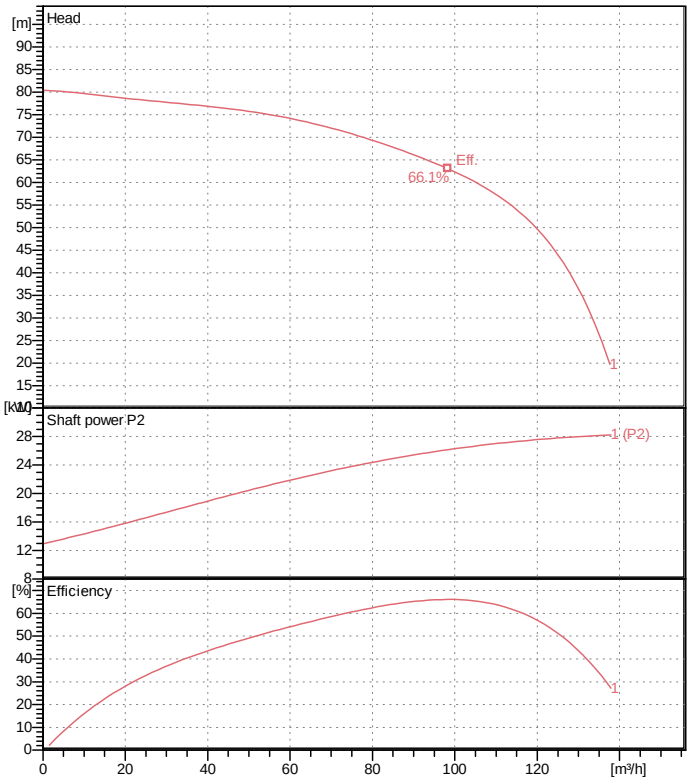
Data sheet LH430-51





LH430-51

CWL: Continuous running water level



Specification

Electric submersible pump

Degree of protection	IP 68
Depth of submersion	max. 30 m
Type of impeller	Closed
Max. solid handling	6 mm

Suitable for:
rain water, ground water, sand water

Electric motor

Dry-type submersible induction motor

Insulation class	F	2Poles	2900 1/min
Starting mode	Star-delta		
Rated voltage	400 V	50 Hz	3~
Power uptake	35.38 kW		
Rated power	30.00 kW		
Rated current	55 A		
Start current	389.9 A		

Cable

20m 6Cx22mm²/ 1Cx14mm²/ 2Cx2mm²

Motor Protection

Miniature protector in windings
(snap-action bi-metal device)

Shaft seal

Double inside mechanical seal in oil bath
additional lubrication by oil lifting device

Primary seal
Silicon carbide on silicon carbide

Secondary seal
Silicon carbide on silicon carbide

Bearings

Shielded ball bearings, maintenance-free

Materials

Impeller	Chromium iron casting
Upper Pump casing	FCD45 (EN-GJS-450-10)
Lower Pump casing	FCD45 (EN-GJS-450-10)
Wear Ring	FC200 (EN-GJL-200)
Motor Frame	FC200 (EN-GJL-200)
Shaft	Stainless steel SUS420J2

Discharge size

100mm JIS10K flange

Weight

355 kg (dry weight of the pump only without cable)

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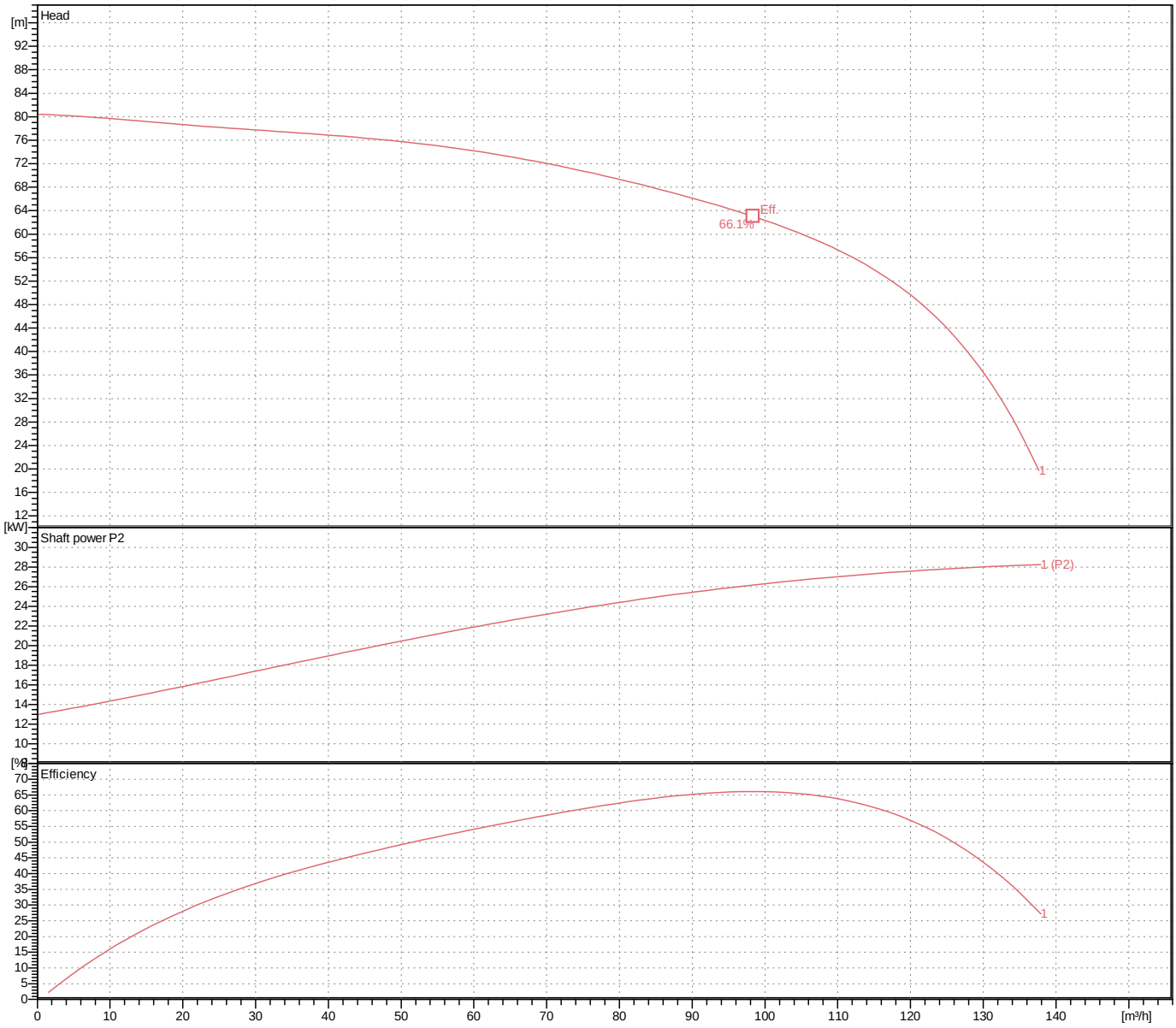
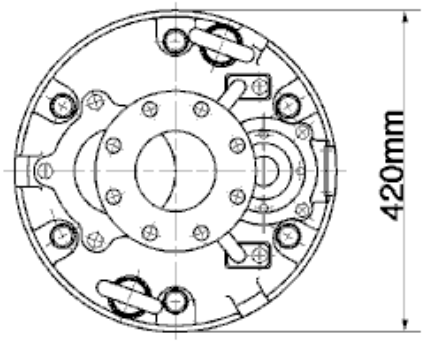
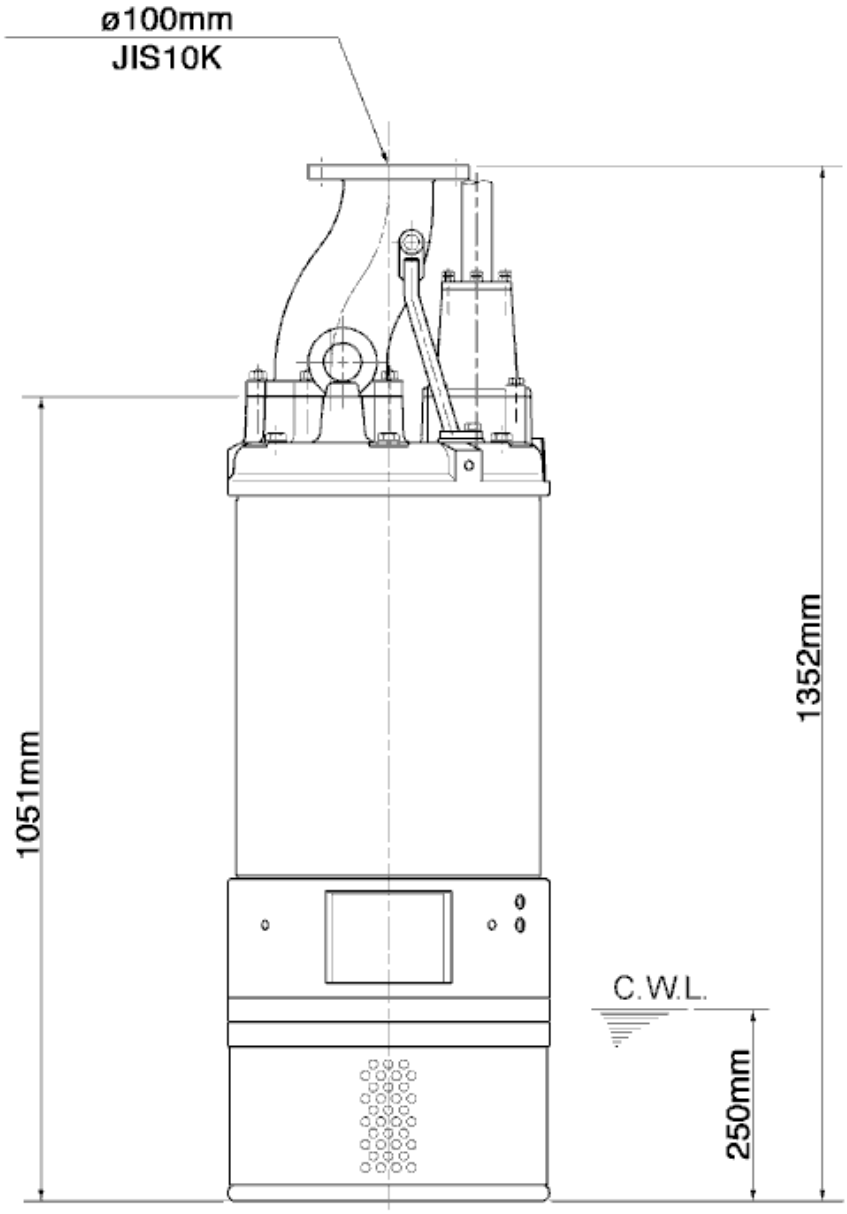
Performance curve
LH430-51

Discharge port	4"
Head	80.4 m
Flow	137.7 m³/h
Rated power	30.00 kW
Power input	35.38 kW
Phases	3~
Voltages	400 V
Frequency	50 Hz
Rated current	55 A
Starting current	389.95 A
Number of poles	2
Speed	2900 1/min
Starting mode	Star-delta
Insulation class	F



Dimensions
LH430-51





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CWL: Continuous running water level
LWL: Lowest running water level

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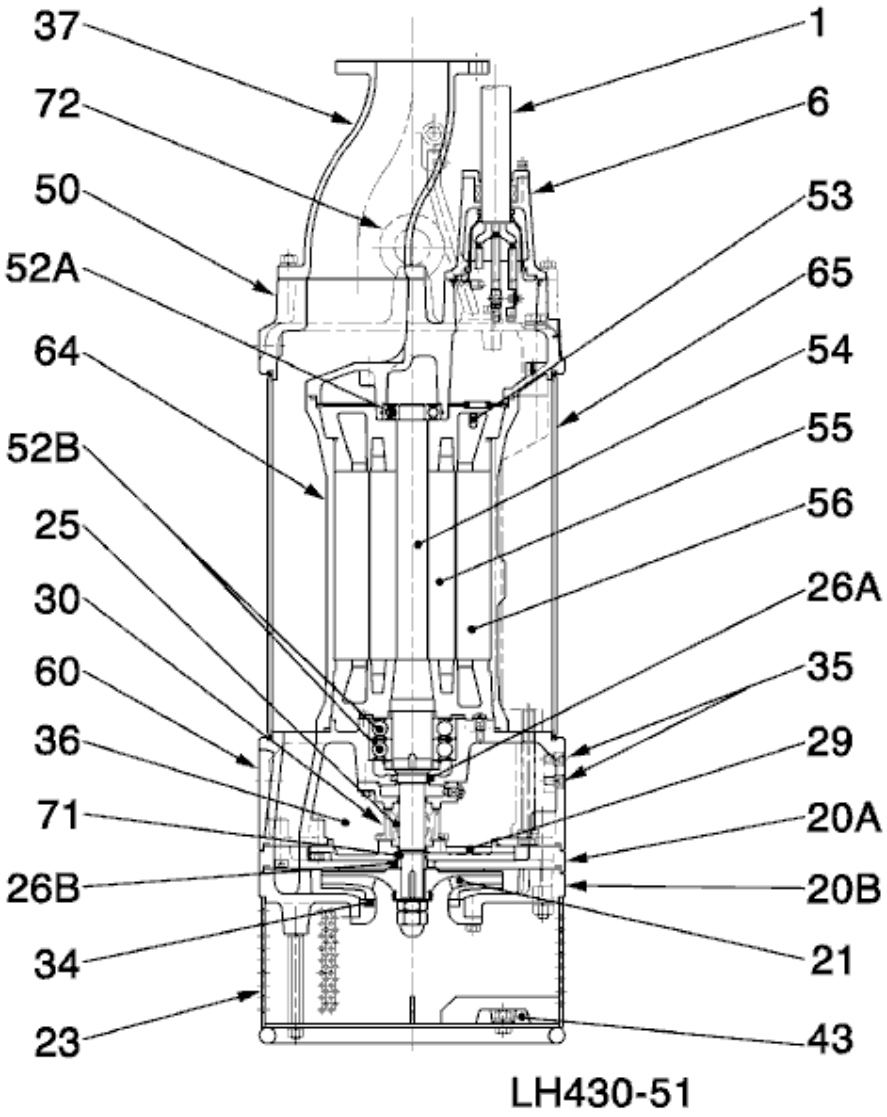
Sectional drawing
LH430-51



No.	Description	Remark	No.	Description	Remark
1	Cable	20m 9Cx22mm²	52A	Upper bearing	6307ZZC3
6	Stuffing box	FC200 (EN-GJL-200)	52B	Lower bearing	6311ZZD2C3
20A	Upper Pump casing	FCD45 (EN-GJS-450-10)	53	Miniature protector (3x)	.
20B	Lower Pump casing	FCD45 (EN-GJS-450-10)	54	Shaft	Stainless steel SUS420J2
21	Impeller	Chromium iron casting	55	Rotor	.
23	Strainer	Construction steel SS400	56	Stator	.
25	Mechanical seal	H-35T	60	Bearing Housing	FC200 (EN-GJL-200)
26A	Oil seal	SC40588	64	Motor Frame	FC200 (EN-GJL-200)
29	Oil casing	FC200 (EN-GJL-200)	65	Outer Cover	Construction steel SS400
30	Oil distributor	Plastic	71	Upper shaft protection sleeve	Stainless steel SUS403
34	Wear Ring	FC200 (EN-GJL-200)	72	Eye screw (2x)	Stainless steel SUS304
35	Oil screw (2x)	Stainless steel SUS304			
36	Lubricant	Turbine oil (ISO VG32)			
37	Pressure socket	FCD700 (EN-GJS-700-2)			
43	Sacrificial anode (4x)	Aluminium alloy			
50	Motor cover	FC200 (EN-GJL-200)			

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