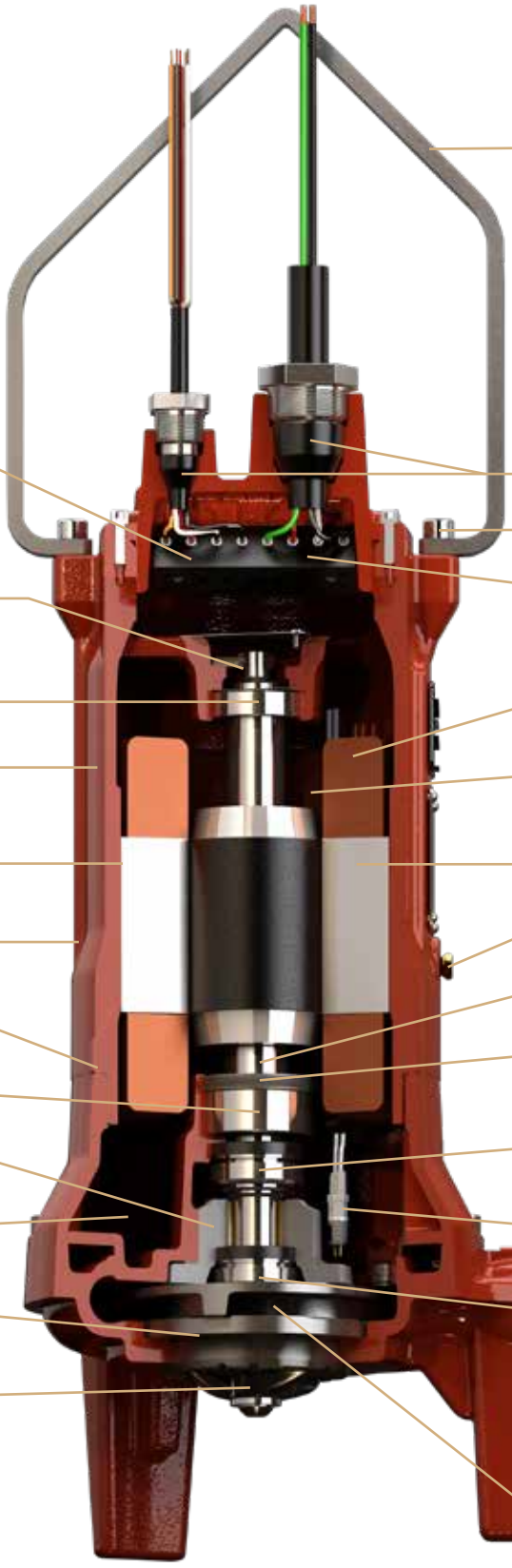
Liberty Pumps
Engineered Products

Technical Data

XLGV07/XLGH07-Series - 60 Hz

Optional Heavy-duty Quick-connect cords



SS lifting bale - sized for ease of use

Terminal block for internal wiring

Buna-N cord strain reliefs

All hardware 316 SS

Rotor shaft grounding brush protects bearings during VFD operation

Permanent epoxy cord seal prevents wicking

Upper deep groove ball bearing

Inverter duty rated Class H insulation

Heavy duty class 30 cast iron motor housing

Oil-filled motor chamber cools motor and lubricates bearings

Press fit stator enhances heat transfer allowing for cooler motor temperatures

NEMA® IE3 Premium Efficiency motor construction

Protective powder coat finish

Stator locking pin prevents stator movement

Buna-N O-rings seal all joints

One piece 416 SS rotor shaft

Bearing locking ring eliminates axial shaft movement

Lower bearing double row angular contact ball bearing

Upper (inner) seal - graphite impregnated carbon on silicon carbide with Viton® elastomers and SS components.

Bronze shaft bushing

MidTherm™ Cooling
Allows oil to be cooled by pumped media

Seal leak detection, 2-probe sensor with resistor

440 SS cutter plate spiraled for solids clearing, hardened to 58Rc

Lower (outer) seal - silicon carbide on silicon carbide with Viton elastomers and SS components (other options available)

440 SS rotary cutter hardened to 58Rc

2", 2.5" & 3" 150# ANSI flange with 2" NPT

Stainless steel impeller

Vertical Discharge Option

2" NPT with 3" NPT flange

Patent: See
www.LibertyPumps.com/LEP/patents

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Model Number	XLGH073A	XLGH074A	XLGH075A	XLGV073A	XLGV074A	XLGV075A
HP	7.5	7.5	7.5	7.5	7.5	7.5
Volts	200/230*	460	575	200/230*	460	575
Phase	3	3	3	3	3	3
Hz	60	60	60	60	60	60
RPM	3450	3450	3450	3450	3450	3450
FLA	32/28	14.25	11.5	30/26	13	10.12
LRA	210	105	76.5	210	105	76.5
Max kW Input	10.4	10.6	10.7	9.8	9.6	9.8
NEMA Code	A	A	A	A	A	A
Service Factor	1	1	1	1	1	1
Power Factor (%)	94	94	95	94	94	95
KVA Code	M	M	M	M	M	M
Std Impeller Diameter (in)	7.4	7.4	7.4	6.2	6.2	6.2
Shut-Off Head w/Std Impeller (ft)	180	180	180	142	142	142
Min Head w/Std Impeller (ft)	20	20	20	10	10	10
Max Flow @ Min Head (GPM)	120	120	120	225	225	225
Power Cord Type & Diameter	Type W, 1 in	SOOW,0.72 in	SOOW,0.72 in	Type W, 1 in	SOOW,0.72 in	SOOW,0.72 in

** System voltages: 208 and 240 volts with utilization voltages: 200 and 230 volts. These pumps are able to be rewired to 460 volts in the field.*

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Motor Insulation Class	H 180°C
Impeller Type	Semi-Open
Impeller Material	Stainless Steel
Control Cord Type & Diameter	18/5 SOOW, 0.375 in
Power Cord Length (Options)	35, 50, 100 ft
Heavy-duty Quick-connect Cords	Optional
Upper (Inner) Seal Material	Graphite Impregnated Carbon - Rotating Silicon Carbide - Stationary Viton Elastomers
Lower (Outer) Seal Material (Standard)	Silicon Carbide on Silicon Carbide Viton Elastomers
Lower (Outer) Seal Material (Optional)	Tungsten Carbide on Tungsten Carbide Viton Elastomers
Max Water Temp for Continuous Duty	40°C
Min Fluid Level for Continuous Operation	Motor Housing Fully Submerged
Fluid pH Range	4–10
Starts Per Hour	30
Shaft Material	416 Stainless Steel
Fastener Material	316 Stainless Steel
O-Ring Elastomers	Buna-N
Upper Bearing	Single Row Deep Groove
Lower Bearing	Double Row Angular Contact
Oil Type	ISO VG10 Turbine Oil
Max Submersion Depth	75 ft
Discharge (Std)	Horizontal, 2 in, 2.5 in & 3 in 150# ANSI with 2 in NPT
Discharge (Optional)	Vertical, 2 in & 3 in NPT
Protective External Finish	Epoxy Powder Coat
Seal Fail Detection	Dual Probe - 2 Wire with Resistor 200K ohm Resistance
Thermal Protection	3 Hermetically Sealed Thermostats 125°C Opening Temperature 105°C Closing Temperature 3A @ 120VAC, 1A @ 240 VAC
Hazardous Location T-Code	T4 (135°C with Thermals Connected) T2 (300°C without Thermals Connected)
Volute Material	Class 30 Cast Iron
Pump Weight	280 lbs
Cuts Per Minute	Over 400,000
Cutter Material	Hardened 440 Stainless Steel
Certifications	CSA Certified to CSA, UL® and FM Standards CAN/CSA - C22.2 No. 145-11 UL 674 5th Ed FM 3615:2016 Class 1, Div. 1, Group C and D, T4 Class 1, Zone 1, Group IIA, IIB, T4

Specifications are subject to change without notice.

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