



Optional Heavy-duty Quick-connect cords

Terminal block for internal wiring

Rotor shaft grounding brush protects bearings during VFD operation (3-phase models)

Upper deep groove ball bearing

Heavy duty class 30 cast iron motor housing

Press fit stator enhances heat transfer allowing for cooler motor temperatures

Protective powder coat finish

Buna-N O-rings seal all joints

Lower bearing double row angular contact ball bearing

Bronze shaft bushing

**MidTherm™ Cooling**

Allows oil to be cooled by pumped media

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

440 SS rotary cutter hardened to 58Rc

**Vertical Discharge Option**



2" NPT with 3" NPT flange

SS lifting bale - sized for ease of use

Buna-N cord strain reliefs

All hardware 316 SS

Permanent epoxy cord seal prevents wicking

Inverter duty rated Class H insulation

Oil-filled motor chamber cools motor and lubricates bearings

NEMA® IE3 Premium Efficiency motor construction

Stator locking pin prevents stator movement

One piece 416 SS rotor shaft

Bearing locking ring eliminates axial shaft movement

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

Seal leak detection, 2-probe sensor with resistor

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

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

Stainless steel impeller

Model Number	XLGH032A	XLGH033A	XLGH034A	XLGH035A	XLGV032A	XLGV033A	XLGV034A	XLGV035A
HP	3	3	3	3	3	3	3	3
Volts	230	200/230*	460	575	230	200/230*	460	575
Phase	1**	3	3	3	1**	3	3	3
Hz	60	60	60	60	60	60	60	60
RPM	3450	3450	3450	3450	3450	3450	3450	3450
FLA	24	16/13.8	6.8	5.3	21.5	14.4/12.5	6.5	4.6
LRA	125	119	59	39	125	119	59	39
Max kW Input	5.4	5.2	5.2	4.9	4.7	4.6	4.7	4.2
NEMA Code	–	A	A	A	–	A	A	A
Service Factor	1	1	1	1	1	1	1	1
Power Factor (%)	99	94	94	93	98	93	92	92
KVA Code	F	M	M	K	F	M	M	K
Std Impeller Diameter (in)	5.4	5.4	5.4	5.4	4.5	4.5	4.5	4.5
Shut-Off Head w/Std Impeller (ft)	97	97	97	97	62	62	62	62
Min Head w/Std Impeller (ft)	20	20	20	20	10	10	10	10
Max Flow @ Min Head (GPM)	120	120	120	120	180	180	180	180
Power Cord Type & Diameter	Type W, 1 in	SOOW, 0.72 in	SOOW, 0.72 in	SOOW, 0.72 in	SOOW, 0.72 in	SOOW, 0.72 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.

\*\* Single-phase motors require capacitors. Liberty Pumps control panel or capacitor kits are recommended for proper operation and warranty. Refer to "Control Panel" section.

<b>Motor Insulation Class</b>	H 180°C
<b>Impeller Type</b>	Semi-Open
<b>Impeller Material</b>	Stainless Steel
<b>Control Cord Type &amp; Diameter</b>	18/5 SOOW, 0.375 in
<b>Power Cord Length (Options)</b>	35, 50, 100 ft
<b>Heavy-duty Quick-connect Cords</b>	Optional
<b>Upper (Inner) Seal Material</b>	Graphite Impregnated Carbon - Rotating Silicon Carbide - Stationary Viton Elastomers
<b>Lower (Outer) Seal Material (Standard)</b>	Silicon Carbide on Silicon Carbide Viton Elastomers
<b>Lower (Outer) Seal Material (Optional)</b>	Tungsten Carbide on Tungsten Carbide Viton Elastomers
<b>Max Water Temp for Continuous Duty</b>	40°C
<b>Min Fluid Level for Continuous Operation</b>	Motor Housing Fully Submerged
<b>Fluid pH Range</b>	4–10
<b>Starts Per Hour</b>	30
<b>Shaft Material</b>	416 Stainless Steel
<b>Fastener Material</b>	316 Stainless Steel
<b>O-Ring Elastomers</b>	Buna-N
<b>Upper Bearing</b>	Single Row Deep Groove
<b>Lower Bearing</b>	Double Row Angular Contact

<b>Oil Type</b>	ISO VG10 Turbine Oil
<b>Max Submersion Depth</b>	75 ft
<b>Discharge (Std)</b>	Horizontal, 2 in, 2.5 in & 3 in 150# ANSI with 2 in NPT
<b>Discharge (Optional)</b>	Vertical, 2 in & 3 in NPT
<b>Protective External Finish</b>	Powder Coat
<b>Seal Fail Detection</b>	Dual Probe - 2 Wire with Resistor 200K ohm Resistance
<b>Thermal Protection</b>	1-phase - 2 Hermetically Sealed Thermostats 3-phase - 3 Hermetically Sealed Thermostats 125°C Opening Temperature 105°C Closing Temperature 3A @ 120VAC, 1A @ 240 VAC
<b>Hazardous Location T-Code</b>	T4 (135°C with Thermals Connected) T2 (300°C without Thermals Connected)
<b>Volute Material</b>	Class 30 Cast Iron
<b>Pump Weight</b>	270 lbs (approx)
<b>Cuts Per Minute</b>	Over 400,000
<b>Cutter Material</b>	Hardened 440 Stainless Steel
<b>Certifications</b>	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.