

Pump **Specification**

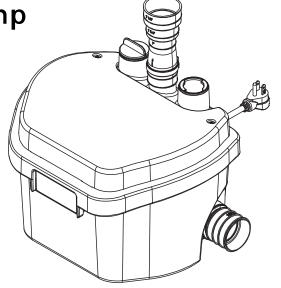
406-Series Automatic Drain Pump

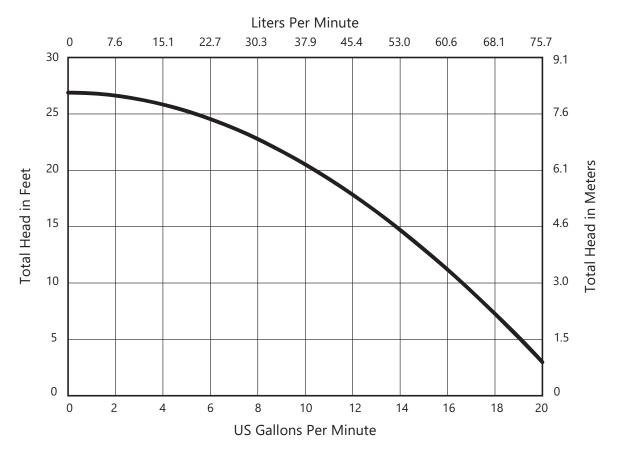
Models

406

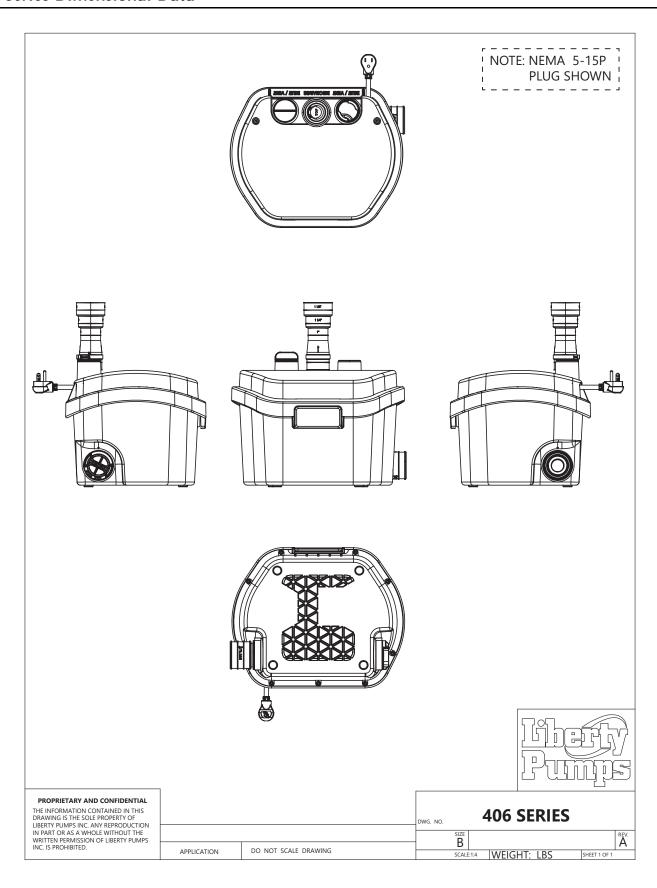
406HV

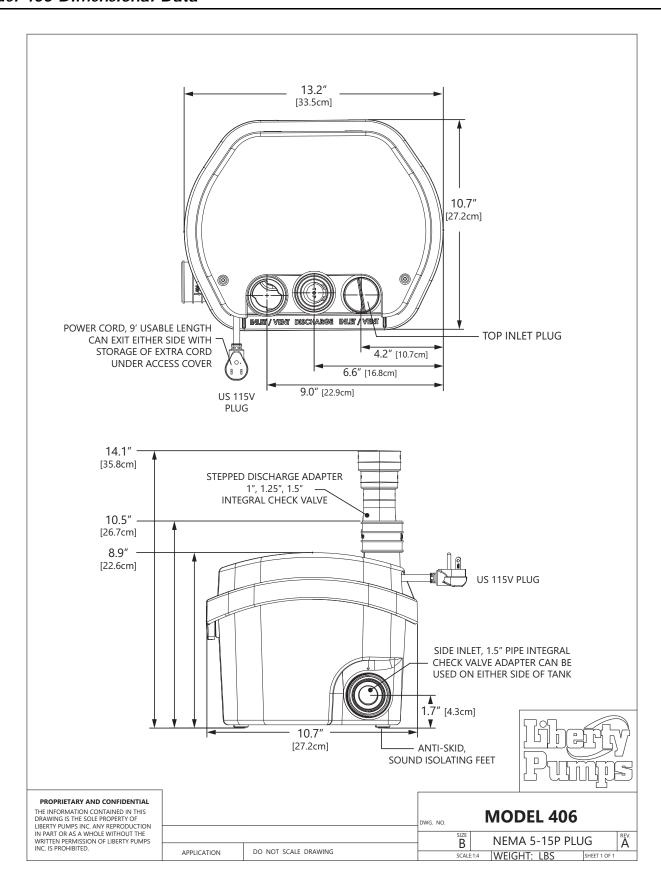
406HVK

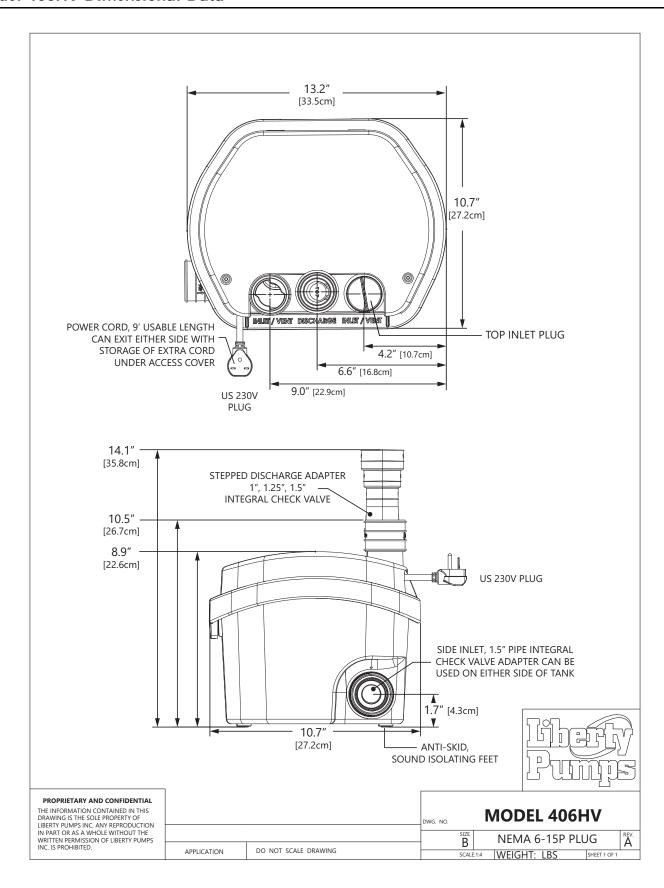


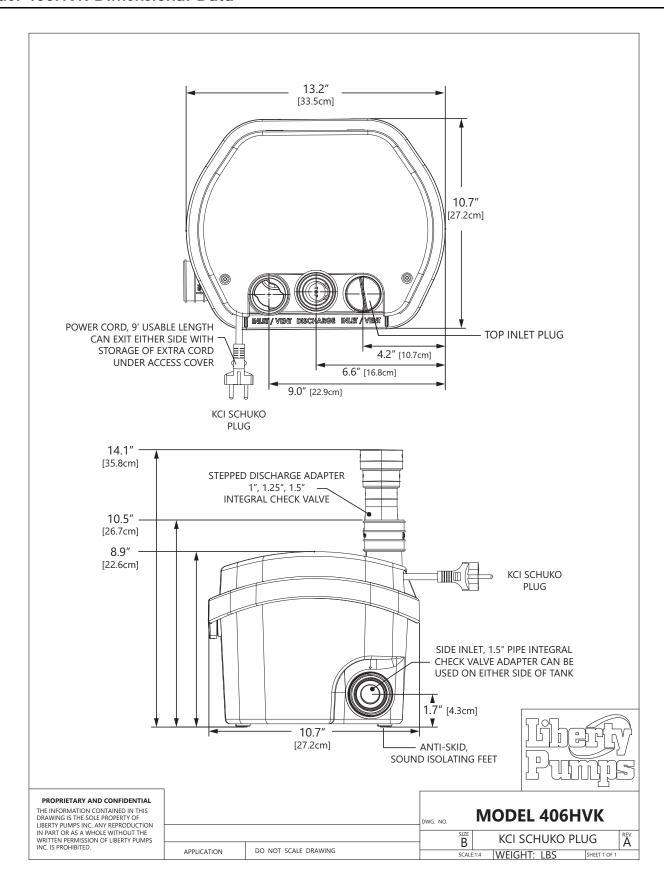


For proper performance, tank inflow cannot exceed pump discharge capacity at the installed head level.









406-Series Electrical Data

MODEL	НР	VOLTAGE	PHASE	HZ	FULL LOAD AMPS	LOCKED ROTOR AMPS	THERMAL OVERLOAD TEMP	STATOR WINDING CLASS	CORD LENGTH (FT)	DISCHARGE (IN)	AUTOMATIC
406	1/6	115	1	60	1.7	4.7	120°C	В	9	1, 1-1/4,1-1/2	YES
406HV	1/6	200/230	1	60	1.0	2.5	120°C	В	9	1, 1-1/4,1-1/2	YES
406HVK	1/6	220	1	60	1.0	2.5	120°C	В	9	1, 1-1/4,1-1/2	YES

PUMP TYPE	APPLIANCE GRADE DRAIN PUMP					
INLET SIZE	3 x 1-1/2"					
VENT SIZE	1-1/2"					
DISCHARGE PIPE DIAMETER	1", 1.25", 1.5" WITH INTEGRAL CHECK VALVE					
DISCHARGE RATE @ 17 FT	12 GPM [45.4 LPM]					
MAX TOTAL DYNAMIC HEAD	27 FT [8.2 METERS] FOR PROPER PERFORMANCE, TANK INFLOW CANNOT EXCEED PUMP DISCHARGE CAPACITY AT THE INSTALLED HEAD LEVEL.					
CAPACITY	1.91 GALLONS [7.6 LITERS]					
INLETS	TOP: x1 SIDE: x2 PROVISIONS FOR ONE SIDE INLET CHECK VALVE INCLUDED, CAN BE USED ON EITHER SIDE INLET LOCATION					
COMMECTIONS	DIRECT: SINK, SHOWER, LAUNDRY SINK, BAR SINK					
CONNECTIONS	INDIRECT: WASHING MACHINE, DISHWASHER					
IMPELLER	MULTI-VANE SEMI-OPEN					
SOLIDS HANDLING	1/8"					
PAINT (PUMP)	ELECTROPLATED MOTOR PLATE, REMAINDER PLASTIC					
MAX LIQUID TEMP	140°F [60°C]					
THERMAL OVERLOAD	248°F [120°C]					
MOTOR HOUSING	ABS					
VOLUTE	ENGINEERED POLYMER					
SHAFT	STAINLESS					
HARDWARE	STAINLESS					
O-RINGS	BUNA-N					
SHAFT SEAL	DUAL SEAL (LIP & MECHANICAL)					
TANK MATERIAL	ABS					
NOISE LEVEL	68 DB					
WEIGHT	13.5 LBS / 6.1 KG					
CERTIFICATIONS: Models 406, 406HV	cCSAus (ASME A112.3.4-2018, CSA B45.9-18), SSPMA					

406-Series Specifications

1.01	GENERAL
The co	contractor shall provide labor, material, equipment, and incidentals required to provide (QTY) appliance grade drain pumps ecified herein. The pump models covered in this specification are 406-Series drain pumps. The pump furnished for this application be model as manufactured by Liberty Pumps.
2.01	OPERATING CONDITIONS
	drain pump shall be rated at 1/6 hp, volts, 60 Hz, 3450 RPM. The unit shall produce GPM at feet of dynamic head.
	rain pump shall be capable of handling effluent with 1/8" solid handling capability. The drain pump shall have a max total dynamic of 12 GPM @ 27 feet.
3.01	CONSTRUCTION
shall b steel.	drain pump shall be equal to the course Certified 406-Series as manufactured by Liberty Pumps, Bergen NY. The motor housing be constructed of ABS. All mating parts shall be sealed with a Buna-N O-ring or engineered gasket. All fasteners shall be stainless. The motor and switch shall be protected on the top side with an ABS access cover. The motor shall be protected on the lower side both an engineered lip seal and two-piece carbon ceramic mechanical seal with stainless steel springs. The tank shall be made of ABS.
4.01	ELECTRICAL POWER CORD
	rain pump shall be supplied with 9 feet of multi-conductor power cord. The power cord shall be sized for the rated full load amps of ump in accordance with the National Electric Code.
5.01	MOTORS
shall r	otors shall be air filled and class B insulated NEMA B design, rated for continuous duty. At maximum load the winding temperature not exceed 130°C unsubmerged. The pump motor shall have an integral thermal overload switch in the windings for protecting the r. The capacitor circuit shall be mounted internally in the pump.
6.01	BEARINGS AND SHAFT
	r and lower ball bearings shall be required. The bearings shall be a single ball/race type bearing. Both bearings shall be permanently ated by grease. The motor shaft shall be made of stainless steel and have a minimum diameter of 0.175".
7.01	SEALS
	ump shall have an engineered lip seal with stainless steel springs and a secondary mechanical carbon ceramic seal. The motor plate/ ng interface shall be sealed with a Buna-N O-ring.
8.01	IMPELLER
The in	npeller shall be molded engineered polymer. It shall be threaded to the motor shaft.
1	Model 406HVK is not Certified.

CONTROLS 9.01

All units are supplied with a CSA and UL approved automatic vertical float switch. The switch shall be mounted under the access cover and accessible for easy serviceability.

10.01 SUPPORT

The ABS tank shall be a freestanding unit.

11.01 SERVICEABILITY

Components required for the repair of the pump shall be shipped within a period of 24 hours.

12.01 TESTING

The pump shall have a ground continuity check and the motor chamber shall be hi-potted to test for electrical integrity, moisture content and insulation defects. The tank shall be pressurized, and an air leak decay test performed to ensure integrity of the tank seal. The pump shall be run, voltage current monitored, and checked for noise or other malfunction.

13.01 QUALITY CONTROL

The pump shall be manufactured in an ISO 9001 certified facility.

14.01 WARRANTY

Standard limited warranty shall be 3 years.