



MULTIQUIP



Electric Submersible Pumps



Versatile pumps with a wide variety of applications

Construction Starts Here

www.multiquip.com



Electric Submersible Pumps

Bolt-on discharge port allows easy replacement

Cast aluminum housing for light weight

Electric motor — water is discharged around the casing for cool operation

Safety First — Selected models carry the UL/CSA listing to protect your customers and your business.

Urethane-covered cast iron volute and an all-urethane impeller withstand tough dewatering projects

Strain relief cord protection

Thermal overload protection prevents motor damage

Compact, streamlined design

Cast iron/steel motor casing serves as heat conductor

Oil-filled dual seal provides lubrication when running dry

Stainless steel strainer and hardware eliminates corrosion

ST2037
2" — 115V
73 GPM

Versatile pumps that handle a wide range of applications:

Construction

Contractors prefer the rugged design of Multiquip pumps for removing water from well casings, construction sites, cofferdams and excavations. All pump components are designed to withstand the rigors of the job site.

Utilities

The pump of choice when dewatering manholes or transformer vaults. Service personnel value their lightweight and portability.

Municipalities

The versatility and reliability of Multiquip pumps makes them popular with state and local governments. Street and sanitation departments depend on our pumps for the removal of unwanted water.

Homeowners

Multiquip's lightweight, compact submersible pumps are the first choice for household dewatering applications such as basements and swimming pools.

Multiquip Electric Submersible Pumps are ideal for removing water from confined areas. Their compact design and high performance enables them to get the job done where other pumps come up short. Submersible pumps provide several advantages over engine-driven pumps.

Models are available in sizes ranging from 1½" to 6" and provide high capacities — up to 36,600 GPH — with heads up to 125 feet. Single and three phase motor configurations are available to meet virtually any power requirement.

Single-Phase Models

Quiet, Unattended Operation

When you have a deadline to meet, you can't afford to have your pump stop working when your crew is done for the day. Multiquip submersibles are powered by electric motors and can be left running for hours.

Versatility

Submersibles can operate completely or partially submerged in any position. Unlike engine driven pumps, they require no priming assistance and may be used indoors.

Maintenance

Since these pumps are driven by electric motors there are no concerns regarding fuel or engine oil. All wear parts are constructed of abrasion resistant material to reduce costly downtime for repairs.

Impellers

Urethane-covered impellers are made of high-chrome ductile iron to minimize wear and prolong service life.



Mechanical Seal

The mechanical seal of each pump operates within an oil-filled chamber that provides positive lubrication. This helps prevent damage in the event the pump is run dry for short periods of time. Some models have dual seals.

"Puddle Sucker"

While many applications require the removal of as much water as possible, most submersible pumps can leave as much as 1" to 2" of water. This can be very impractical when faced with a large surface area such as a basement floor. Multiquip's ST2038P "Puddle Sucker" has the ability to draw water down to a level of 1/16" or lower without having to place the pump in any type of sump.



These models feature plastic bodies and plastic impellers

Includes garden hose adapter



Yellow
Submarine
1 1/4" — 120V
22 GPM



SS233
2" — 120V
60 GPM



ST2038P
2" — 120V
60 GPM



ST2037
2" — 120V
73 GPM



ST2047
2" — 120V
87 GPM



ST3020BCUL
3" — 230V
170 GPM

Motor Protection

All models have built-in thermal overload protection that shuts down the pump when the operating temperature becomes too high. The motor automatically restarts once the temperature returns to an acceptable level.

Hardware

All hardware is made of stainless steel to resist corrosion and simplify service.

Quality and Safety

ST-Series single phase 2" and 3" Multiquip submersible pumps are certified in accordance with ISO9001 Quality Management System standard. Additionally, selected models carry the Underwriters Laboratories (UL) listing for compliance with both U.S. or Canadian electrical safety codes.



Pump Controls

Control boxes and float switches are available for all submersible pump models. These accessories enable the operator to either manually or automatically control pump operation. Features vary by model.



Hoses

A full line of discharge hoses with standard and quick-disconnect fittings are available to suit your application.



Submersible Trash Pumps — Single Phase

Heavily debris-laden water calls for rugged pumps. Submersible trash pumps are equipped with a 2" discharge port and easily handle solids up to one inch in diameter. A vortex action discharges solids away from the cast iron multi-vane impeller to prevent clogging.



Strain relief cord protection

Carrying handle

Thermal overload protection

Cast iron pump casing for demanding environments

Oil-filled seal provides positive lubrication when running dry

Easy cleanout

Cast iron impeller

Side discharge

ST2040T
2" — 120V
79 GPM



ST2010TCUL
2" — 120V
95 GPM



Easy Cleanout — The base of the MultiQuip Submersible Trash Pumps can be quickly removed for service or inspection.



Control Boxes and Float Switches

Float Switches

SW1A Single Float Switch

■ UL and CSA listed ■ 20 foot, 14 gauge electrical cord (with piggyback plug) ■ For use with ST2037, -2038P, -2040T. (See Figure 1)



SW1WOPA Single Float Switch

■ UL and CSA listed ■ 20 foot, 14 gauge electrical cord, bare wire on end (no plug) ■ Use with control box applications (direct connection to control box); two each required.

SW2A Dual Float Switch

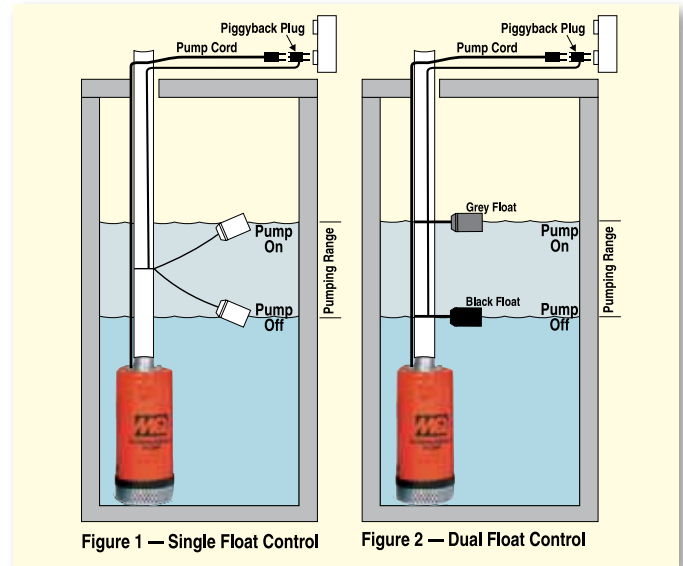
■ UL and CSA listed ■ 15 foot, 14 gauge electrical cord (with piggyback plug) ■ For use with ST2047 and -2010TCUL. (See Figure 2)

Single-Phase Control Boxes

(includes two SW1WOPA Float Switches)

CB3 Single Phase Control Box

■ Water-resistant fiberglass housing ■ Running light ■ Use with any 120V model submersible pump.



What You Should Know When Ordering a Pump

Your first concern is to pump water. Before making that telephone call to order your pump, there are a number of questions that need to be answered. The pump supplier wants to make certain that you get the pump you need. Knowing the answers to these questions will make their job easier and your ordering process much faster — and you'll know that you have the correct pump for your job.

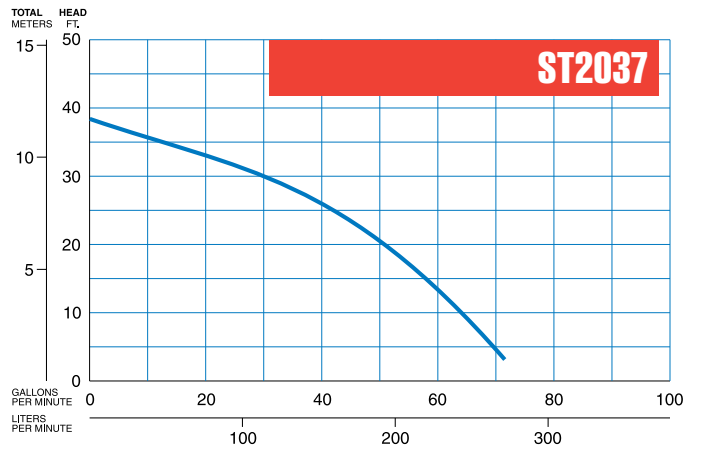
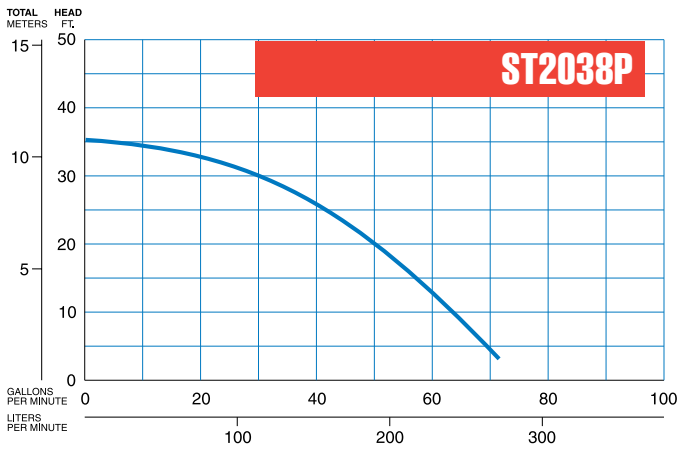
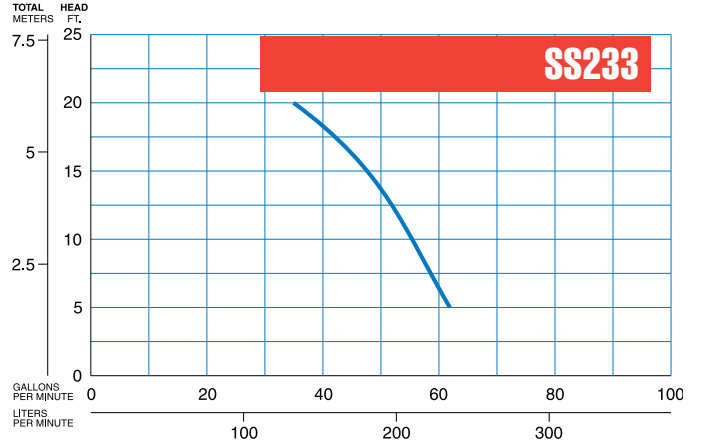
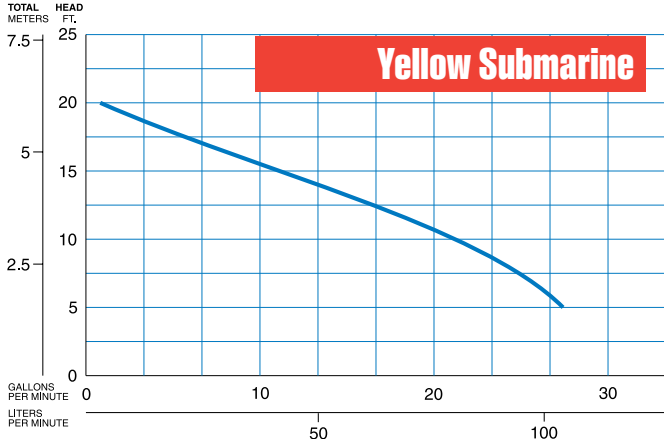
- **What is your application?** Describe your pumping application, what is it that you need to do with the pump.
- **How far under the water will the pump be located?**
- **What is the liquid that you are pumping?** If it is water, then describe the condition of the water and if you are pumping any solids or sand. Is it hot water? If it is something other than water, be very specific about the liquid and its properties.

- **Are you looking for an approximate flow?** Gallons per minute or per hour.
- **What is the height from the surface of the water you are pumping from to the discharge point?**
- **What is the length and diameter of your discharge hose/pipe?**
- **Is there any vertical rise in the discharge hose?** If so, what is the vertical distance from the pump to where the water is discharging, or the highest point along the discharge hose.
- **Are you using rubber/PVC water hoses, steel pipe, or PVC pipe?**

There can be more questions but these few will give you a good start in getting the correct pump for your job.

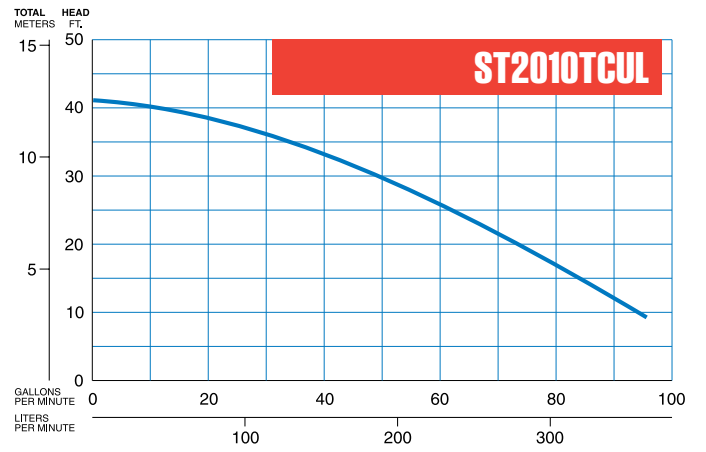
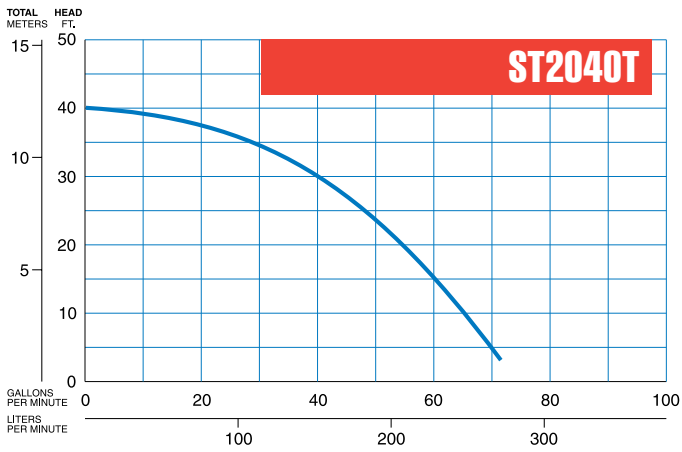
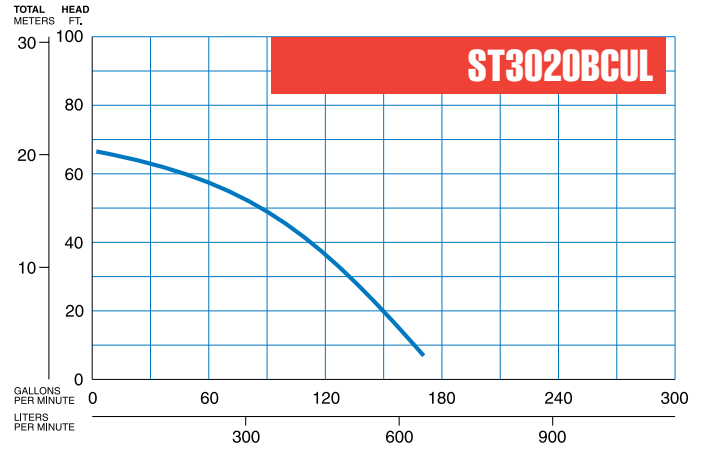
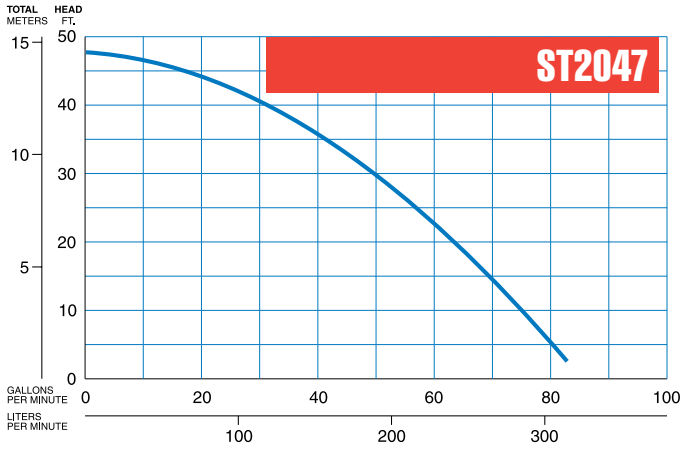


Pump Performance Curves





Pump Performance Curves



Multiquip Electric Submersible Pumps – Specifications

Model	Impeller	Disc. Size in. (mm)	Max. Solids in. (mm)	Total Head ft. (m)	Capacity GPM (lpm)	HP (kw)‡	Voltage; Phase	Starting Amp.	Running Amp.	Cable Length ft. (m)	Diameter in. (mm)	Height in. (mm)	Weight lb (kg)
CENTRIFUGAL													
YELSUB*	Plastic	1¼ (31.7)	–	20 (6.1)	22 (83)	0.25 (.185)	120V 1Ø	11.5	2.3	9 (2.7)	5.375 (136)	9.5 (24)	6 (2.72)
SS233*	Plastic	2 (50)	–	20 (6.1)	60 (227)	0.5 (0.37)	120V 1Ø	30	6	20 (6.1)	7.25 (184)	14.5 (36.8)	15.5 (7.0)
ST2038P*	Neoprene Rubber over Cast Iron	2 (50)	–	38 (11.5)	60 (227)	1 (0.75)	120V 1Ø	56	8	25 (7.8)	7.7 (196)	15.4 (391)	31 (14)
ST2037*	Neoprene Rubber over Cast Iron	2 (50)	–	37 (11.3)	73 (276)	1 (0.75)	120V 1Ø	34.5	6.9	25 (7.8)	7.4 (188)	15.4 (391)	31 (14)
ST2047*	Neoprene Rubber over Cast Iron	2 (50)	–	47 (14.3)	87 (329)	1 (0.75)	120V 1Ø	49	9.8	50 (15.2)	7.4 (188)	15.4 (391)	33 (15)
ST3020BCUL*	Cast Ductile Iron	3 (75)	–	72 (22)	170 (644)	2 (1.5)	230V 1Ø	52	10.5	50 (15.2)	6.7 (170)	28.5 (720)	67 (30)
TRASH PUMPS													
ST2040T*	Neoprene Rubber over Cast Iron	2 (50)	1 (25)	40 (12.2)	79 (299)	1 (0.75)	120V 1Ø	34	6.8	25 (7.8)	10.3 (267)	16.8 (427)	34 (15.4)
ST2010TCUL*	Cast Ductile Iron	2 (50)	1 (25)	45 (13.7)	95 (360)	1 (0.75)	120V 1Ø	53	9.4	50 (15.2)	10.3 (267)	22.7 (576)	77 (35)

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* Complies with UL and Canadian Electrical Standards.

‡ Engine power ratings are calculated by the individual engine manufacturer and the rating method may vary among engine manufacturers. Multiquip Inc. and its subsidiary companies makes no claim, representation or warranty as to the power rating of the engine on this equipment and disclaims any responsibility or liability of any kind whatsoever with respect to the accuracy of the engine power rating. Users are advised to consult the engine manufacturer's owners manual and its website for specific information regarding the engine power rating.



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