

Water Pumps & Tanks



Shallow Well Jet Pumps



Shallow Well Pre-Plumbed Water Systems



Utility Pumps



Pressure Tanks

STOP!

PLEASE NOTICE THAT SOME
OF THE ITEM NUMBERS FOR
EXISTING ITEMS HAVE CHANGED.
SEE PAGE 3 FOR NEW ITEM
NUMBER INFORMATION.
THANK YOU.

PART NUMBER CHANGES AS FOLLOWS:

Former Item Number	New Item Number
25148.....	2514
25188.....	2518
25028.....	2508
25025.....	2505
25215.....	2521
25009.....	2509
25118.....	2511
25198.....	2519
25228.....	2522
25325.....	2532
28552.....	2855
28553.....	2853
28414.....	2841
26955.....	2655
26945.....	2645
26960.....	2660
26245.....	2622
26265.....	2623
27209.....	2721
27221.....	2722
27229.....	2729
27102.....	2710
27092.....	2709
27094.....	2704
29670.....	2967

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SOURCE INFORMATION

390: Sta-Rite Industries, 1-800-432-4029

149: AMT Corporation, 610-948-3800

153: State Industries, Inc., 1-800-365-8170, Ext. 6214, 6215 or 6338

PARTS AND SERVICE

**To Order Parts:
Call Sears Product Services,
1-800-366-7278**

**For Pump Service:
Call Sears Product Services,
1-800-473-7247**

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Pump Application Index

APPLICATION	PUMP SELECTION	PAGE
<p>WELL WATER FOR HOUSEHOLD USE</p> <p>Depth to water in well, 20' or less</p> <p>Depth to water in well, 20'-210'</p> <p>Depth to water in well, 20'-400'</p>	<p>Shallow Well Jet Pump</p> <p>Shallow Well Pre-Plumbed System</p> <p>Convertible/Deep Well Jet Pump</p> <p>Deep Well 4" Submersible Pump</p>	<p>6-7</p> <p>8-9</p> <p>10-11</p> <p>12-13</p>
<p>WELL WATER OR OPEN WATER SOURCE <i>(for sprinkling, garden irrigation, livestock watering, etc.)</i></p> <p>Depth to water, 20' or less</p> <ul style="list-style-type: none"> In-ground sprinkler system or other applications requiring large volume of water 1-2 portable sprinklers or other applications requiring smaller volume of water <p>Depth to water greater than 20'</p> <ul style="list-style-type: none"> Applications requiring large water volume Applications requiring smaller water volume 	<p>Sprinkler Pump</p> <p>Shallow Well Jet Pump</p> <p>Portable Utility/Sprinkler</p> <p>Deep Well 4" Submersible Pump</p> <p>Convertible/Deep Well Jet Pump</p>	<p>22-23</p> <p>6-7</p> <p>20</p> <p>12-13</p> <p>10-11</p>
<p>BOOSTING WATER PRESSURE</p> <p>Increasing water pressure on City or Municipal systems</p>	<p>Shallow Well Pre-Plumbed Water System</p>	<p>8-9</p>
<p>REMOVAL OF UNWANTED WATER <i>(sumps, basements, crawl spaces, work sites, window wells, clogged sinks, pool covers, broken appliances, etc.)</i></p> <p>Permanent installation</p> <ul style="list-style-type: none"> Removal of water from sump with no power <p>Temporary installation</p> <ul style="list-style-type: none"> Small water application Large water application Large water application with no power source 	<p>Pedestal or Submersible Sump Pump</p> <p>Battery Back-up Sump Pump</p> <p>Portable Utility Pump</p> <p>Submersible Portable Utility Pump</p> <p>Gas Engine Pump</p>	<p>16-17</p> <p>18</p> <p>20</p> <p>21</p> <p>25</p>
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Shallow Well Jet Pumps

▶ Depth to water: 20' or less / Built-in jet on front of pump / One pipe from pump to water



Hydro-Glass® Shallow Well Jet Pumps

2518

- 3/4 HP
- 40/60 Pressure Range
- GPM: Up to 10.9
- Limited 3-year warranty*

2514

- 1/2 HP
- 40/60 Pressure Range
- GPM: Up to 8.2
- Limited 3-year warranty*



Hydro-Glass® Shallow Well Jet Pump

2508

- 1/2 HP
- 30/50 Pressure Range
- GPM: Up to 7.3
- Limited 2-year warranty*



Cast-Iron Shallow Well Jet Pump

2505

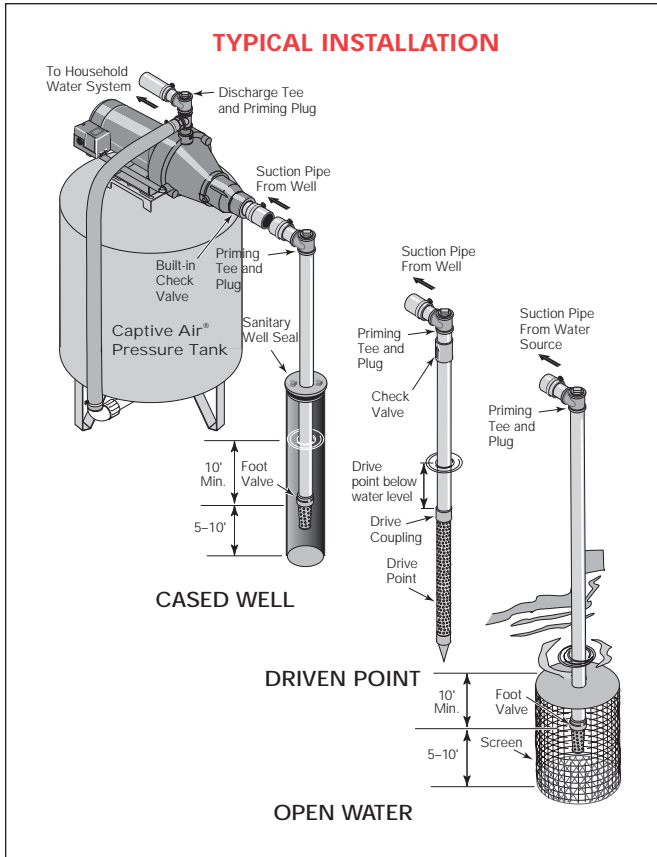
- 1/2 HP
- 30/50 Pressure Range
- GPM: Up to 7.3
- Full 1-year warranty*

The Craftsman® Advantage

- Built-in Check Valve** Simplifies pump priming and prevents pumped water from returning to source.
- 40/60 Pressure Range** Provides best household pressure.
(Craftsman® Professional)
- Draincock** Simplifies draining and winterization.
(Craftsman® Professional)
- Capacitor Start Motor** Delivers more efficient motor start.
(Craftsman® Professional)
- Dual Discharge** Simplifies pump and tank hook-up.
(Craftsman® Professional)
- Maintenance Agreement** Coverage that goes beyond many standard warranties.
(Optional)

Features and Benefits

- Dual Voltage Motor** Operates on either 115 or 230 volt household current.
- Hydro-Glass® Construction** Engineered to resist the most aggressive water conditions.
- Built-in Shallow Well Jet** Eliminates separate purchase of jet package.



- ### Installation Tips
- Always read Owner's Manual completely before installing pump.
 - Replace existing pump with pump of same horsepower or larger.
 - Pump is pre-wired for 230 volt operation; if using 115 volt, consult Owner's Manual for simple wiring conversion.
 - Always fill pump body with water before starting.
 - Install pump as close to the water source as possible. If pump is displaced more than 25' from water source, consult Owner's Manual for proper pipe size.
 - For optimum pump performance, pipe size should be equal to or larger than the pump tapings.

Pump Specifications and Performance

Stock Number	HP	Motor Voltage	Maximum Amperage	Tapping Sizes		Depth to Water in Feet			
				Suction	Discharge	5'	10'	15'	20'
2518	3/4	115/230V	12.2/6.1	1-1/4"	Two 1"	10.9	10.4	8.6	7.5
2514	1/2	115/230V	8.8/4.4	1-1/4"	Two 1"	8.2	7.3	6.2	5.0
2508	1/2	115/230V	9.4/4.7	1-1/4"	3/4"	7.3	6.2	5.2	4.2
2505	1/2	115/230V	9.4/4.7	1-1/4"	1"	7.3	6.2	5.2	4.2

Performance shown in gallons per minute at 40 PSI discharge pressure.

Recommended Accessories (see pages 26-27)

FOOT VALVES

- 274811"
- 274911-1/4"
- 275011-1/2"

Prevents water from draining back to source. Foot Valves are corrosion-resistant thermoplastic.

PRESSURE GAUGE

- 2768
Displays system water pressure in jet pump installation.

PVC FITTINGS KIT

- 27809
For ease of installation with flexible polypipe or rigid plastic pipe. Includes plastic pipe cement.

Shallow Well Pre-Plumbed Systems

▶ Depth to water: 20' or less / Built-in jet on front of pump / One pipe from pump to water



- 2521
- 1/2 HP
 - 40/60 Pressure Range
 - GPM: Up to 8.2
 - 19 gallon tank
 - Drawdown: **5.0 gallons
 - Limited 3-year warranty*



- 2509
- 1/2 HP
 - 30/50 Pressure Range
 - GPM: Up to 7.3
 - 6 gallon tank
 - Drawdown: **1.8 gallons
 - Limited 2-year warranty*

The Craftsman® Advantage

- Built-in Check Valve**Simplifies pump priming and prevents pumped water from returning to source.
- 40/60 Pressure Range**Provides best household pressure.
(Craftsman® Professional)
- Draincock**Simplifies draining and winterization.
(Craftsman® Professional)
- Capacitor Start Motor**Delivers more efficient motor start.
(Craftsman® Professional)
- Maintenance Agreement**Coverage that goes beyond many standard warranties.
(Optional)

Features and Benefits

- Dual Voltage Motor**Operates on either 115 or 230 volt household current.
- Hydro-Glass® Construction**.....Engineered to resist the most aggressive water conditions.
- Built-in Shallow Well Jet**Eliminates separate purchase of jet package.
- Pre-Plumbed**.....Reduces installation time and accommodates space constraints.
Compact Design

Recommended Accessories

(see pages 26-27)

FOOT VALVES

- 274811"
- 274911-1/4"
- 275011-1/2"

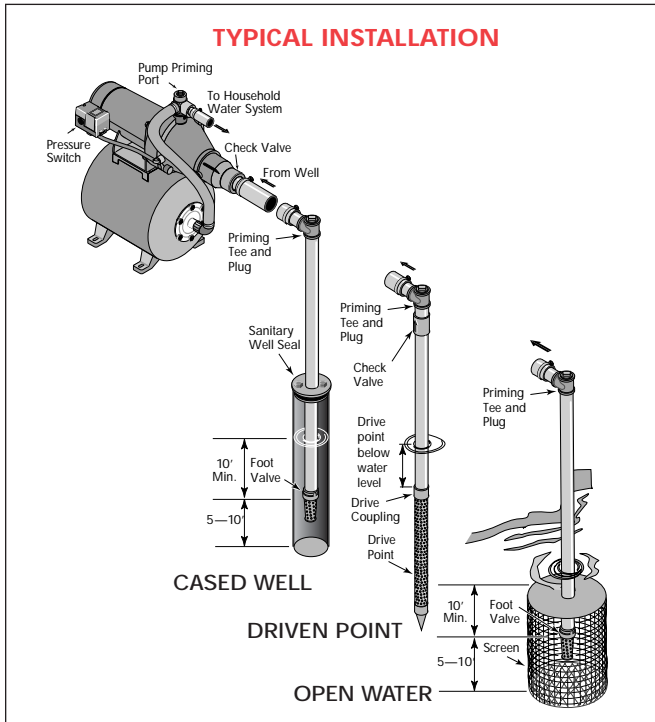
Prevents water from draining back to source. Foot Valves are corrosion-resistant thermoplastic.

PRESSURE GAUGE

- 2768
Displays system water pressure in jet pump installation.

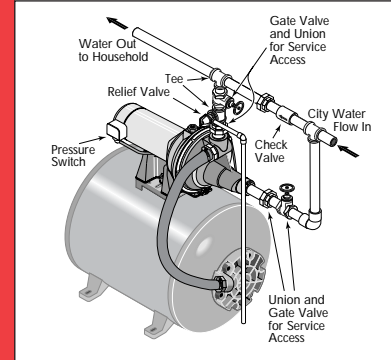
*Warranty details – see page 28.

**Tank drawdown is the gallons of available water from the time the pump shuts off until the pump starts.



Pressure Booster System (for low municipal water pressure)

1. Low water pressure can be increased by installing a pre-plumbed system in the incoming water supply line.
2. Pump will only operate when water pressure drops to cut-in setting of the pump.



If Minimum Pressure in System is: Range:	Recommended System:	System Pressure
0-30 PSI	2509	30/50
	2521	40/60
30-40 PSI	2521	40/60

Items Needed for Installation

Tee – Ties into main water supply and connects pump suction and discharge to incoming water supply line.

Check Valve – Keeps increased water pressure from backing into incoming water supply line.

Gate Valve – Allows booster system to be bypassed for servicing, or for original water supply to be utilized.

Union Connectors – Allows booster system to be easily disconnected and serviced as needed without disturbing system piping.

Relief Valve – Allows pressure in system to be relieved if it should exceed 75 PSI.

NOTE: To avoid pump running dry due to service line maintenance, replace pump pressure switch with low pressure cut-off switch.

WARNING! Hazardous pressure. Risk of pipe damage or explosion. Do not allow system pressure to exceed 75 PSI at any time.

- Do not remove pressure switch from pump.
- Do not adjust pressure switch setting on pump.
- Operating system without pressure switch or with pressure switch range above 40/60 PSI can lead to over pressure, pipe damage, and possible explosions; and will void the warranty.

Installation Tips

- Always read Owner's Manual completely before installing pump.
- Pump is pre-wired for 230 volt operation; if using 115 volt, consult Owner's Manual for simple wiring conversion.
- Always fill pump body with water before starting.
- Install pump as close to the water source as possible. If pump is displaced more than 25' from water source, consult Owner's Manual for proper pipe size.
- For optimum pump performance, pipe size should be equal to or larger than the pump tapplings.

Pump Specifications and Performance

Stock Number	Maximum Amps		Tapping Size		Dimensions (inches)			Depth to Water (feet)				Tank Drawdown** (gallons)
	115V	230V	Suction	Disch.	Depth	Length	Height	5'	10'	15'	20'	
2521	8.8	4.4	1-1/4"	1"	16	27	30	8.2	7.3	6.2	5.0	5.0
2509	9.4	4.7	1-1/4"	3/4"	12	23	26	7.3	6.2	5.2	4.2	1.8

Performance shown in gallons per minute at 40 PSI discharge pressure.

**Tank drawdown is the gallons of available water from the time the pump shuts off until the pump starts.

Convertible/Deep Well Jet Pumps

► Depth to water: 20' – 210' / Jet in water, not on pump / Two pipes from pump to water



Hydro-Glass® Convertible Jet Pumps

2522

- 1 HP
- 40/60 Pressure Range
- GPM: Up to 8.2 (deep well); 17.0 (shallow well)
- **Limited 3-year warranty***

2519

- 3/4 HP
- 40/60 Pressure Range
- GPM: Up to 6.6 (deep well); 10.9 (shallow well)
- **Limited 3-year warranty***



Cast-Iron Deep Well Jet Pump

2532

- 1 HP
- 40/60 Pressure Range
- GPM: Up to 12.0 (deep well only)
- **Full 1-year warranty***



Hydro-Glass® Convertible Jet Pump

2511

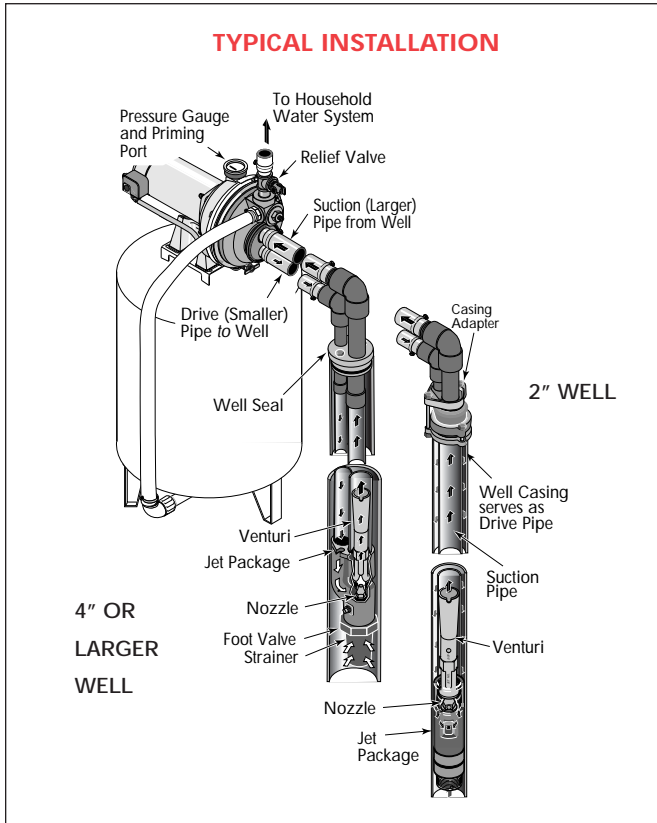
- 1/2 HP
- 30/50 Pressure Range
- GPM: Up to 4.1 (deep well); 8.2 (shallow well)
- **Limited 2-year warranty***

The Craftsman® Advantage

- 40/60 Pressure Range** Provides best household pressure.
(Craftsman® Professional)
- Draincock** Simplifies draining and winterization.
(Convertible Pumps)
- Capacitor Start Motor** Delivers more efficient motor start.
(Craftsman® Professional)
- Dual Discharge** Simplifies pump and tank hook-up.
(Convertible Pumps)
- Maintenance Agreement** Coverage that goes beyond many standard warranties.
(Optional)

Features and Benefits

- Regulator Valve and Pressure Gauge** Eliminates separate purchase. Necessary for initial start-up and aids in maintenance for deep well applications.
- Dual Voltage Motor** Operates on either 115 or 230 volt household current.
- Hydro-Glass® Construction** Engineered to resist the most aggressive water conditions.
(Convertible Pumps)
- Multi-Functional** Can be used on shallow well or deep well applications with appropriate jet package.
(Convertible Pumps)



- ### Installation Tips
- Always read Owner's Manual completely before installing pump.
 - Always install a new jet package when installing a new pump.
 - Pump is pre-wired for 230 volt operation; if using 115 volt, consult Owner's Manual for simple wiring conversion.
 - Always fill pump body with water before starting.
 - Install pump as close to the water source as possible. If pump is displaced more than 25' from water source, consult Owner's Manual for proper pipe size.
 - For optimum pump performance, pipe size should be equal to or larger than the pump tapings.
- NOTE:** If installation is on a 3-inch cased well, order jet package 29902 from 1-800-366-7278.

Pump Specifications

Stock Number	HP	Motor Voltage	Maximum Amperage	Tapping Sizes	
				Suction x Drive	Discharge
2522	1	115/230V	14.8/7.4	1-1/4" x 1"	Two 1"
2519	3/4	115/230V	12.2/6.1	1-1/4" x 1"	Two 1"
2511	1/2	115/230V	9.4/4.7	1-1/4" x 1"	Two 1"
2532	1	115/230V	19.2/9.6	1-1/4" x 1-1/4"	1"

Pump Performance

Stock Number	Conversion to Shallow Well				Depth to Water in Feet												
					Deep Well - 4" or larger (2" performance slightly less)												
	5'	10'	15'	20'	30'	40'	50'	60'	70'	80'	90'	100'	120'	140'	180'	210'	
2522	17.0	15.0	13.0	10.5	8.2	7.2	6.2	5.0	3.2	2.7	2.2	-	-	-	-	-	
2519	10.9	10.4	8.6	7.5	6.6	5.4	4.4	3.4	2.5	1.9	1.6	-	-	-	-	-	
2511	8.2	7.3	6.2	5.0	4.1	3.2	2.0	1.8	-	-	-	-	-	-	-	-	
2532	-	-	-	-	12.0	11.7	11.4	11.1	10.2	9.2	7.8	6.4	5.0	4.5	3.2	2.1	

Performance shown in gallons per minute at 40 PSI discharge pressure.

Required Accessories (see pages 26-27)

SHALLOW WELL JET PACKAGE

29650

Converts convertible pumps for use on shallow well application – depth to water 20' or less.

4" DEEP WELL JET PACKAGE

29660

For use on convertible/deep well pumps in deep well application – depth to water greater than 20'. 4" or larger opening.

2" DEEP WELL JET PACKAGE

2967

For use on convertible/deep well pumps in deep well application – depth to water greater than 20'. 2" well.

Deep Well 4" Submersible Pumps

▶ Depth to water: 20' – 400'



28402 – 3-Wire
• Limited 3-year warranty*

2855 – 2 Wire
• Limited 3-year warranty*

The Craftsman® Advantage

40/60 Pressure Range Provides best household pressure.

Pumping Capacity Broadest offering to meet application needs.

Maintenance Agreement (Optional) Coverage that goes beyond many standard warranties.

Features and Benefits

Built-in Check Valve Prevents pumped water from returning to source.

Stainless Steel/ Hydro-Glass® Construction Protects against rust and corrosion in the most aggressive conditions.

Pump Specifications and Performance** – Residential Models – 1-1/4" Discharge

Stock Number	HP	Voltage	Control Center	Depth to Water in Feet												
				20'	40'	60'	80'	100'	125'	150'	175'	200'	250'	300'	350'	400'
28551	1/2	115V	N/A	13.6	12.6	11.5	10.1	8.6	-	-	-	-	-	-	-	-
2855	1/2	230V	N/A	13.6	12.6	11.5	10.1	8.6	-	-	-	-	-	-	-	-
2853	3/4	230V	N/A	-	-	13.5	12.7	11.9	10.7	9.4	7.9	-	-	-	-	-
28402	1/2	230V	28412	13.6	12.6	11.5	10.1	8.6	-	-	-	-	-	-	-	-
28403	3/4	230V	28413	-	-	13.5	12.7	11.9	10.7	9.4	7.9	-	-	-	-	-
28404	1	230V	2841	-	-	-	-	13.5	12.9	11.9	10.9	9.8	7.4	-	-	-
28405	1-1/2	230V	28425	-	-	-	-	-	-	-	13.5	12.9	11.7	10.4	8.9	7.1

High Capacity Models – 1-1/4" Discharge

28406	1	230V	2841	26.4	24.7	22.7	20.7	18.4	-	-	-	-	-	-	-	-
28407	1-1/2	230V	28425	-	-	25.8	24.3	22.9	21.0	18.8	15.4	-	-	-	-	-
28408	2	230V	28426	-	-	-	-	26.4	25.1	23.7	22.2	20.8	17.2	-	-	-
28409	3	230V	28427	-	-	-	-	-	-	-	26.7	25.5	23.8	21.7	19.6	16.8

Extra-High Capacity Models – 1-1/4" Discharge (Special Order-RSOS)

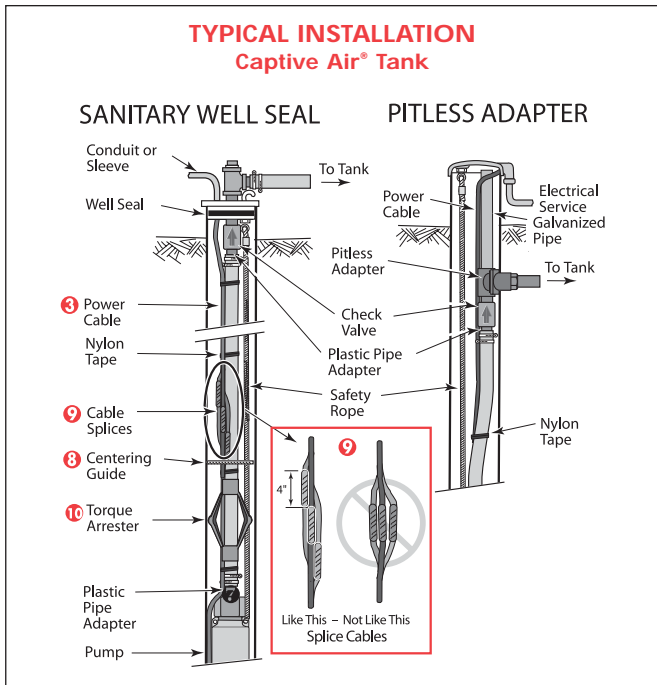
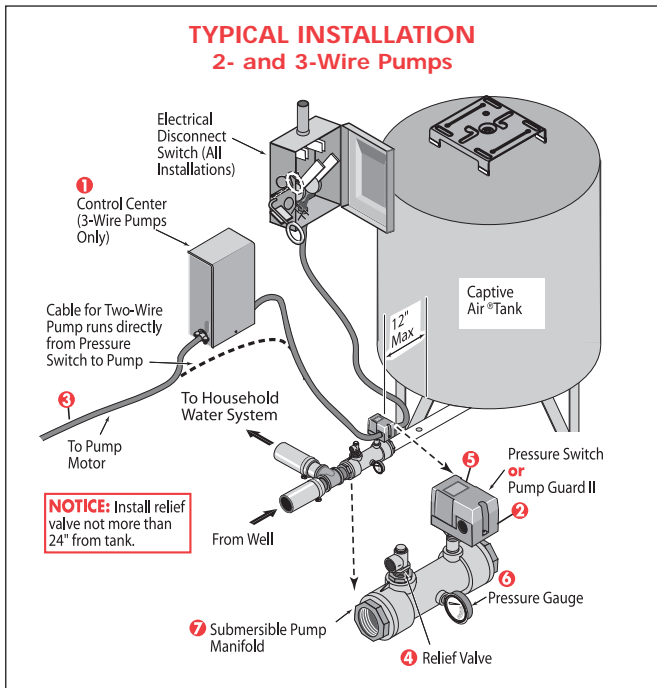
28437	1-1/2	230V	28425	36.0	33.5	30.8	-	-	-	-	-	-	-	-	-	-
28438	2	230V	28426	-	-	36.6	34.8	32.8	29.8	-	-	-	-	-	-	-
28439	3	230V	28427	-	-	-	-	38.8	37.3	35.9	34.5	32.6	28.3	-	-	-

Stock Number	Pump Type	Max Amps	Fuse Rating	AWG Cable Size		
				12	10	8
28551	2-wire	12.0	20	160	-	-
2855	2-wire	6.0	15	650	1020	-
2853	2-wire	8.4	20	480	760	-
28402	3-wire	6.0	15	650	1020	-
28403	3-wire	8.4	20	480	760	-
28404	3-wire	9.8	25	400	630	-
28405	3-wire	11.5	30	310	480	770

Stock Number	Pump Type	Max Amps	Fuse Rating	AWG Cable Size		
				12	10	8
28406	3-wire	9.8	25	400	630	-
28407	3-wire	11.5	30	310	480	770
28408	3-wire	13.2	30	250	390	620
28409	3-wire	17.0	45	190	300	470
28437	3-wire	11.5	30	310	480	770
28438	3-wire	13.2	30	250	390	620
28439	3-wire	17.0	45	190	300	470

*Warranty details – see page 28.

**Performance shown at 40 PSI.



Cable Ordering Information

Stock Number	Cable Type	Gauge	Cable Length
2710	2-wire	12	125'
2709	3-wire	12	125'
2704	3-wire	10	250'

Installation Tips

- Always read Owner's Manual completely before installing pump.
- Three-wire pumps must have matching control center.
- Improper pump size could lead to premature pump failure. For proper sizing call 1-800-432-4029.
- For optimum pump performance, pipe size should be equal to or larger than the pump tappings.
- For generator applications, call 1-800-432-4029 for proper generator size.

Recommended Accessories (see pages 26-27)

Accessories to complete the installation of submersible deep well pumps.

- 1. PUMP CONTROL CENTER -**
See page 12 Required for 3-wire pump operation.
- 2. PUMP GUARD II - 2721**
Safety shut-off to prevent pump from running dry (replaces pressure switch).
- 3. CABLE - see below**
For connecting pumps to power source. Includes green grounding wire.
- 4. PRESSURE RELIEF VALVE - 2729**
Protects home water systems from excessive pressure due to pressure switch malfunction.
- 5. PRESSURE SWITCH - 2782**
40/60 pressure range recommended.
- 6. PRESSURE GAUGE - 2768**
To monitor system operating pressure.
- 7. PUMP MANIFOLD - 2722**
Allows for easy installation of relief valve, pressure switch/Pump Guard II, and gauge.
- 8. CENTERING GUIDES - 2724**
Centers pipe and wiring in well to prevent damage during operation.
- 9. SPLICE KIT - 2753**
For waterproof splice connection of 14, 12, and 10-gauge submersible pump cable.
- 10. TORQUE ARRESTOR - 2750**
Installs on plastic pipe to prevent damage to pump, pipe, and wiring due to twisting at start pressure.

**Tank drawdown is the gallons of available water from the time the pump shuts off until the pump starts.

Captive Air® Tank



UL Classified to ANSI/NSF Standard 61



Vertical Tanks

- 29175 – 85 gallon
- 29169 – 50 gallon
- Full 5-year warranty*



Horizontal Tanks

- 29119 – 6 gallon
- Full 5-year warranty*



UL Classified to ANSI/NSF Standard 61



Vertical Tanks

- 29165 – 36 gallon
- 29155 – 19 gallon
- Full 5-year warranty*



Horizontal Tanks

- 29135 – 19 gallon
- Full 5-year warranty*



UL Classified to ANSI/NSF Standard 61



UL Classified to ANSI/NSF Standard 61

Standard Pressure Tank



Vertical Tanks

- 2950 – 42 gallon
- 2951 – 82 gallon
- 2952 – 120 gallon
- Limited 5-year warranty*



The Craftsman® Advantage

40 PSI Pre-Charge Eliminates the need for an air compressor to adjust air charge.

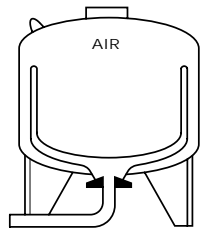
Features and Benefits

Captive Air® Design Delivers nearly double the amount of usable water between pump cycles than that of the same size standard tank – resulting in longer pump life.

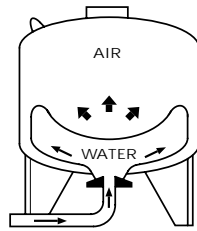
Replaceable FDA Water Storage Bag Separates water and air to eliminate water-logging caused by air absorption.

Appliance Finish Baked-on finish to resist rust and corrosion.

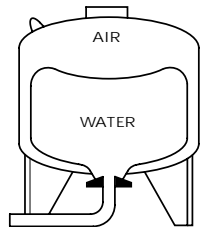
CAPTIVE AIR® TANK OPERATION



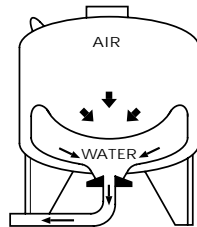
1 Tank nearly empty - air expands filling area above vinyl bag.



2 Water begins to enter tank - air is compressed above vinyl bag as it fills with water.



3 Pump-up cycle completed - air now compressed to cut off setting of pressure switch.



4 Water being drawn from tank - compressed tank air forces water out of vinyl bag.

Installation Tips

Shallow Well Application.....See page 7

Deep Well Application.....See page 11

4" Submersible Application.....See page 13

- Always read Owner's Manual completely before installing tank.
- Bigger is always better. A larger tank will result in the pump running less often, which increases pump life.
- Tanks need to be installed within 18-24 inches of the system's pressure switch for optimum performance.
- Tanks are factory pre-charged at 40 PSI. If your pump pressure switch cut-in setting is less than 40 PSI, the tank pre-charge must be reduced to the cut-in pressure of your pump.
- Tank pre-charge should be checked annually and adjustments made if necessary.

Captive Air® Tank Specifications

Stock Number	Tank Size	Std. Tank Equivalent	Tank Type	Dimensions			Pipe Size	Tank Drawdown**		
				Diameter	Height	Length		20/40	30/50	40/60
2909	2 gal.	6 gal.	Vert.	8-3/8"	12-1/2"	-	1"	0.7	0.6	0.5
29119	6 gal.	15 gal.	Horiz.	12"	13-1/2"	16"	3/4"	2.2	1.8	1.6
29135	19 gal.	42 gal.	Horiz.	16"	17-1/2"	26-1/4"	1"	6.9	5.8	5.0
29155	19 gal.	42 gal.	Vert.	20"	21-1/4"	-	1"	6.9	5.8	5.0
29165	36 gal.	82 gal.	Vert.	20"	32-1/2"	-	1"	12.7	10.7	9.3
29169	50 gal.	120 gal.	Vert.	24"	32"	-	1-1/4"	18.3	15.5	13.4
29175	85 gal.	220 gal.	Vert.	24"	52-1/2"	-	1-1/4"	30.0	26.0	22.0

Standard Pressure Tank Specifications

Stock Number	Tank Size	Captive Air® Equivalent	Dimensions		Pipe Size	Tank Drawdown**		
			Diameter	Height		20/40	30/50	40/60
2950	42 gal.	19 gal.	20"	36"	1-1/4" (3)	6.3	4.2	3.0
2951	82 gal.	36 gal.	20"	62-1/2"	1-1/4" (3)	12.6	8.4	6.0
2952	120 gal.	50 gal.	24"	62-1/2"	1-1/4" (3)	18.9	12.6	9.0

Glass-lined galvanized construction

Recommended Accessories (see pages 26-27)

TUBING & FITTING KITS

27881

Used between jet pump and air volume control on standard tanks.

PUMP TO TANK KIT

2788

Connects jet pumps to Captive Air® tanks.

AIR VOLUME CONTROL

2761

Controls volume of air in standard tank when using with jet pump.

**Tank drawdown is the gallons of available water from the time the pump shuts off until the pump starts.

Pedestal Sump Pumps



- 30349**
- 1/2 HP
 - Pumps up to 84 GPM (5040 GPH)
 - Stainless steel and Cast-iron construction
 - Adjustable vertical float switch
 - 1-1/2" discharge tapping (includes 1-1/4" reducer)
 - Requires 12" diameter or larger sump basin
 - **Limited lifetime warranty***



The Craftsman® Advantage

Stainless Steel/ Hydro-Glass® Construction (3050) Won't rust or corrode. Ideal for heavy-duty applications.

Highest Pumping Capacity Pedestal (30349) Fast water removal.

Maintenance Agreement (optional) Coverage that goes beyond many standard warranties.

Features and Benefits

Vertical Float Switch (Submersible) Operates in sumps as small as 10 inches in diameter.

Stainless Steel/Cast-Iron Construction Ideal for heavy-duty applications.

Built-in Thermal Overload (all models) Protects motor from overheating and resets automatically.



- 3033**
- 1/3 HP
 - Pumps up to 58 GPM (3480 GPH)
 - High impact thermo-plastic construction
 - Adjustable vertical float switch
 - 1-1/4" discharge tapping
 - Requires 12" diameter or larger sump basin
 - **Full 1-year warranty***



Recommended Accessories (see pages 26-27)

SUMP PUMP CHECK VALVE - 2789
Prevents pumped water from returning to sump. Installs directly into 1-1/4" pump discharge. Adapts to 1-1/4" or 1-1/2" piping.

IN-LINE SUMP PUMP CHECK VALVE - 2792
Prevents pumped water from returning to sump. Installs "in-line" on 1-1/4" or 1-1/2" piping.

SUMP PUMP INSTALLATION KIT - 2771
For simplified re-piping of new pump to old piping. Compatible with 1-1/4" or 1-1/2" pipe.

DISCHARGE HOSE KIT - 27909
Provides alternative to permanent piping for rapid removal of water from flooded area or sump. Hose 1-1/4" diameter, 24' length.

PEDESTAL SWITCH - 2773
Makes it easy to replace defective on/off switch on all brands of pedestal sump pumps.

Pump Specifications and Performance

Stock Number	Max Amps	Dimensions		Vert. Pump Dist. (Ft.)					
		Height	Width	0'	5'	10'	15'	18'	20'
30349	7.3	33"	11-1/2"	84	75	64	48	34	17
3033	3.5	32"	11-1/2"	58	50	41	27	14	-

Performance shown in gallons per minute.

Submersible Sump Pumps



- 3050 (1/2 HP)
- Pumps up to 66 GPM (3960 GPH)
 - Stainless steel and Hydro-Glass® construction
 - Requires 12" dia. sump or larger
 - Tethered float switch
 - 1-1/4" discharge tapping
 - **Limited lifetime warranty***



- 30479 (1/3 HP) • 30579 (1/2 HP)
- Pumps up to 56/67 GPM (1/3•1/2 HP) (3360•4020 GPH)
 - Cast-iron and Hydro-Glass® construction
 - Requires 10" dia. sump or larger
 - Vertical float switch
 - 1-1/2" discharge tapping (includes 1-1/4" reducer)
 - **Limited lifetime warranty***



- 30469 (1/3 HP)
- Pumps up to 58 GPM (3480 GPH)
 - High impact thermoplastic construction
 - Requires 10" dia. sump or larger
 - Vertical float switch
 - 1-1/4" discharge tapping
 - **Limited 2-year warranty***



- 30590 (FP0S6000A) (3/4 HP)
- Pumps up to 117 GPM (7000 GPH)
 - High impact thermoplastic construction
 - Requires 13" dia. sump or larger
 - Tethered float switch
 - 1-1/4" or 1-1/2" discharge tappings
 - **Limited lifetime warranty***



- 2925 (1/4 HP) • 2960 (1/3 HP) • 2985 (1/2 HP)
- Pumps up to 20/38/50 GPM (1200/2300/3000 GPH)
 - High impact thermoplastic construction
 - Requires 12" dia. sump or larger
 - Tethered float switch
 - 1-1/4" or 1-1/2" discharge tappings
 - **Full 1-year warranty***



Installation Tips

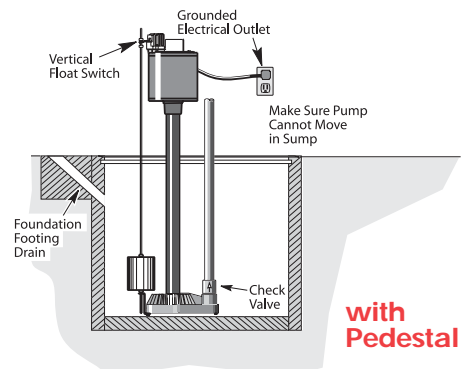
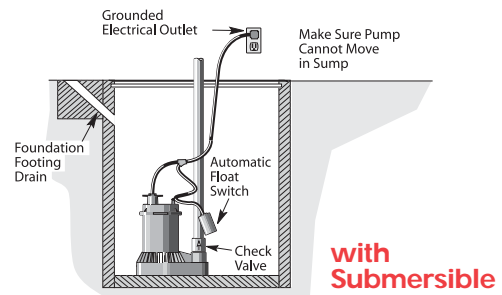
- Always read Owner's Manual completely before installing pump.
- Make sure power is disconnected to pump when installing or removing pump for servicing.
- Sump pump check valve must be included in installation. If you are replacing an existing pump, replacing the check valve is highly recommended.
- Make sure pump cannot move around in the sump.

Pump Specifications and Performance

Stock No.	Max. Amps	Dimensions		Vertical Pumping Dist. (Ft)					
		Height	Width	0'	5'	10'	15'	20'	25'
3050	7.6	14-1/2"	9-1/2"	66	61	56	50	46	43
30479	9.8	11-1/2"	9-1/2"	56	48	39	29	16	-
30579	12.0	11-1/2"	9-1/2"	67	62	53	46	38	26
30469	13.0	12-1/2"	9"	58	50	41	28	3	-
30590	7.5	12"	7"	117	100	84	64	39	-
2985	3.0	10-1/2"	6"	50	42	32	22	13	-
2960	2.6	10-1/2"	6"	38	33	24	14	5	-
2925	1.5	9-1/2"	6"	20	17	11	7	-	-

Performance shown in gallons per minute.

TYPICAL INSTALLATION



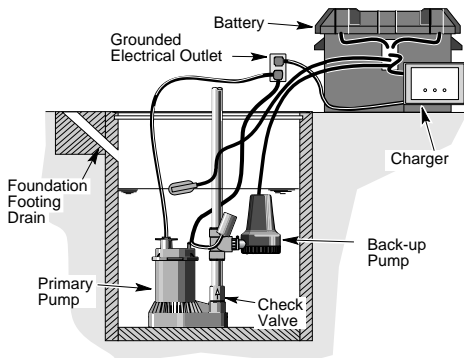
Battery Back-up Sump Pump



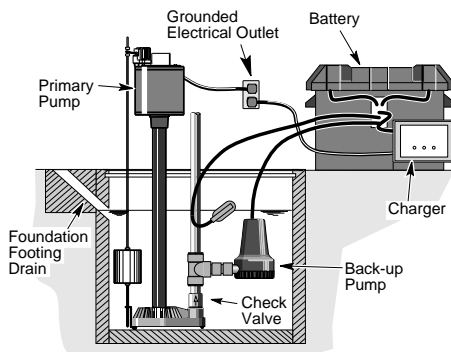
30706

- GPM: Up to 18.0
- Solid State Charger
- Limited 2-year warranty*

TYPICAL INSTALLATION (with Submersible)



(with Pedestal)



The Craftsman® Advantage

Maintenance Agreement (optional) Coverage that goes beyond many standard warranties.

Features and Benefits

Technologically Advanced 5-Stage, 2 Amp Charger Monitors system and automatically responds to sump and battery conditions for maximum performance.

Audible Alarm Signals pump operation, charger unplugged or need to replace battery.

Thermoplastic Pump Won't rust or corrode.

Built-in Overload Protection Automatically protects motor from overheating due to excessive amperage draw.

Maximum Performance Will pump up to 14.5 hours and/or up to 10,520 gallons from one fully charged battery.

Installation Tips

- Always read Owner's Manual completely before installing pump.
- Use only deep cycle marine batteries, Sears DieHard® size 24M or 27M is recommended.
- Primary pump must have check valve installed below where back-up system is installed.

Pump Performance

	Vertical Pumping Distance					
	8'		10'		12'	
Battery Size	27M	24M	27M	24M	27M	24M
Gallons per Minute	18.0	18.0	14.5	14.5	11.5	11.5
Hours Available	12.0	9.5	13.5	10.5	14.5	11.5
Total Gallons Pumped	10,520	8,402	10,422	8,339	5,876	4,516

Submersible Sewage Pump



Simer

- 2961
- 4/10 HP
- 115V
- Maximum amps: 8.5
- Up to 2" solids
- GPM: Up to 88.0
- Full 1-year warranty*

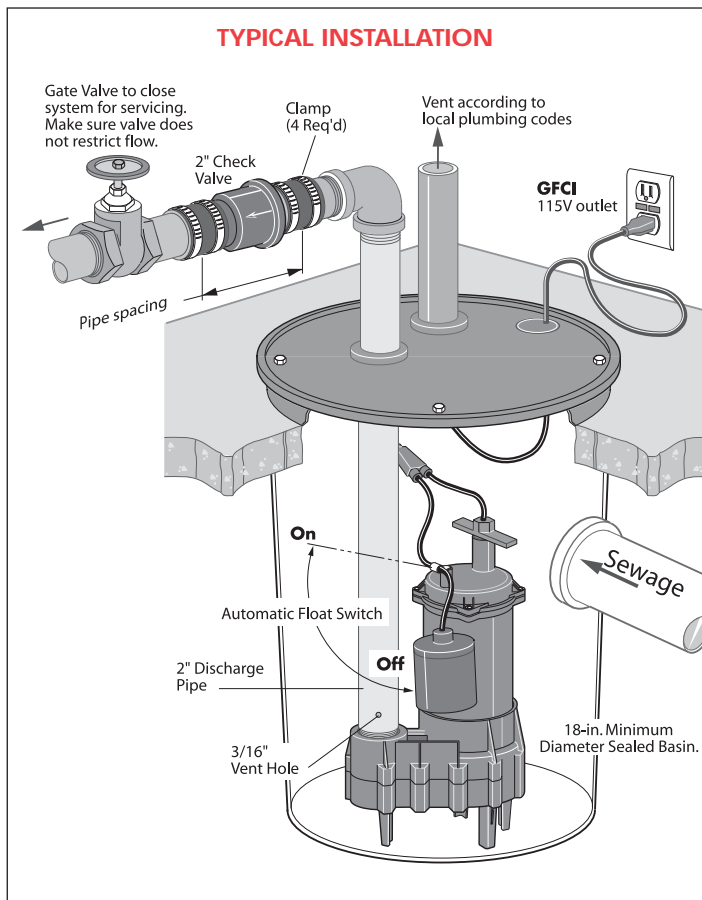


Features and Benefits

- Thermoplastic Construction** Won't rust or corrode.
- High Capacity** Removes unwanted waste water quickly.
- Compact Design** Fits into a basin as small as 18 inches in diameter.
- Built-in Thermal Overload** Protects motor from overheating and resets automatically.

Installation Tips

- Always read Owner's Manual completely before installing pump.
- Make sure power is disconnected to pump when installing or removing pump for servicing.
- Install 2-inch sewage pump check valve horizontally in piping. See typical installation.



Pump Performance

Stock No.	HP	Dimensions		Vertical Pump Distance			
		Width	Height	0'	5'	10'	15'
2961	4/10	8-1/2"	14-1/2"	88	65	42	16

Performance shown in gallons per minute.

Required Accessories

(see pages 26-27)

SEWAGE PUMP CHECK VALVE

2791

Prevents wastewater from returning to sewage basin.

Portable Utility Pumps



Thermoplastic Utility/Sprinkler Pump



- 26029
- 1/2 HP
- 8.0 Max amps
- On-off switch with 6' power cord
- High impact thermoplastic construction

- 1" x 14' suction hose with foot valve
- Two (2) garden hose adapters
- Pumps up to 10.2 GPM (612 GPH)
- **Full 1-year warranty***

Pump Performance

Suction Lift in Feet Pump to Water	Discharge Pressure in Pounds per Square Inch							
	5	10	15	20	25	30	35	40
0'	10.2	10.0	9.7	9.2	8.4	6.9	5.6	4.2
5'	9.9	9.6	9.4	9.1	7.5	6.1	4.9	3.8
10'	7.9	7.6	7.4	7.2	6.3	5.3	4.0	3.0
15'	6.5	6.4	6.3	6.2	6.0	4.5	3.4	2.5
20'	4.8	4.8	4.8	4.7	4.7	4.2	3.1	2.2

Performance shown in gallons per minute.

The Craftsman® Advantage

- 15' Power Cord (2655)For extended reach.
- Includes 1" x 14'Eliminates separate purchase.
- Reinforced Suction Hose (26029)

Features and Benefits

- Garden Hose Adapters** Easily adapts to garden hose for household use.
- Portable** Maximum flexibility of pump application and operation.
- Screened Bottom Suction (2645, 2655, 26965, 2430)** Pumps water to within 3/16" of floor level.
- Auto On/Off (Simer 2330)** Patented, electronic-controlled submersible pump automatically turns on when water is present and off at 3/16" of floor level.



Corrosion-Resistant Utility Pump



- 26915
- 1/12 HP
- 2.0 Max amps
- Corrosion-resistant
- Pud-L-Scoop® attachment

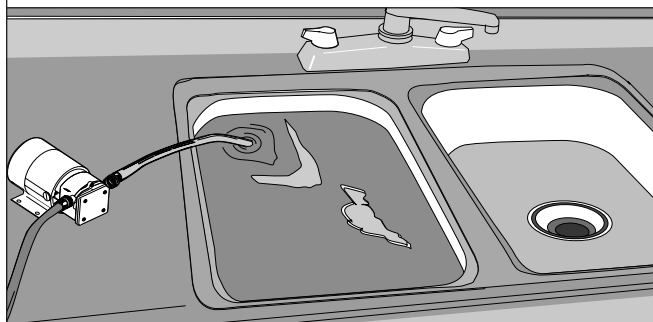
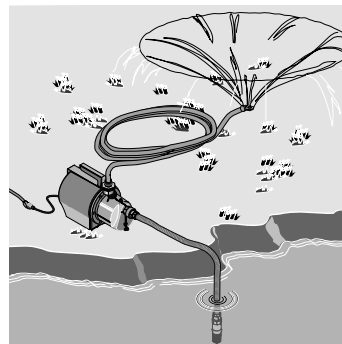
- Reinforced suction hose
- Garden hose discharge connection
- Pumps up to 5.5 GPM (330 GPH)
- **Full 1-year warranty***

Pump Performance

Vertical Pumping Distance					
3'	10'	15'	20'	30'	40'
5.5	5.0	4.6	4.0	2.5	1.0

Performance shown in gallons per minute.

TYPICAL APPLICATIONS



Thermoplastic Power Drill Pump



- 2660
- Thermoplastic construction
- Garden hose suction and discharge tappings

- Self-priming up to 8' vertical lift
- Pumps up to 3.75 GPM (225 GPH)
- **90-day warranty***

Typical Uses

- Pump out small aquariums
- Empty clogged sink or tub
- Empty washing machine

Submersible Utility Pumps



- 2655 (1/4 HP)**
- High impact thermoplastic construction
 - 1" discharge tapping
 - Garden hose adapter
 - 15' power cord
 - Pumps up to 30.0 GPM (1800 GPH)
 - **Limited lifetime warranty***



- 2645 (1/6 HP)**
- High impact thermoplastic construction
 - 1" discharge tapping
 - Garden hose adapter
 - 8' power cord
 - Pumps up to 26.0 GPM (1560 GPH)
 - **Full 1-year warranty***



- 26965 (2330) (1/4 HP)**
- Patented, electronic on/off control
 - High impact thermoplastic construction
 - 1" discharge tapping
 - Garden hose adapter
 - 15' power cord
 - Pumps up to 27.0 GPM (1620 GPH)
 - **Limited 2-year warranty***



Waterfall Utility Pump

- 2430 (1/3 HP)**
- High impact thermoplastic construction
 - 1-1/4" discharge tapping
 - Barbed fitting
 - Garden hose adapter
 - Oil-free motor – safe for fish and plants
 - 15' power cord
 - Pumps up to 36.0 GPM (2160 GPH)
 - **Full 1-year warranty***



Pump Specifications and Performance

Stock No.	Max. Amps	Dimensions		Vertical Pump Distance in Feet				
		Width	Height	3'	5'	10'	15'	20'
2655	9.0	5.5"	9.0"	30.0	28.5	24.5	20.0	14.5
2645	8.5	5.5"	9.0"	26.0	25.0	21.5	17.5	11.0
26965	8.5	6.0"	10.5"	27.0	25.0	21.0	15.0	6.0
2430	2.6	5.5"	10.0"	36.0	33.0	24.0	14.0	5.0

Performance shown in GPM using 1" or larger discharge hose.

Installation Tips

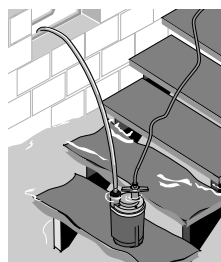
- Always read Owner's Manual completely before installing pump.
- When using an extension cord, it must be at least 14-gauge up to 25', and 12-gauge if greater than 25'.
- For maximum performance on submersible utility pumps, use discharge hose kit 27909.
- When using 26915 or 2660 it is recommended that a few drops of mineral oil be placed in the pump inlet prior to each use.

Garden Hose Performance

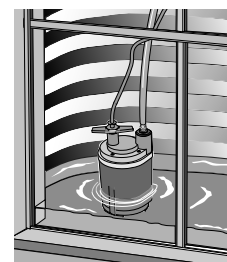
Stock No.	Type of Hose	Length of Hose	Vertical Pumping Distance				
			3'	5'	10'	15'	20'
2655	1/2"	25'	9.0	8.7	7.5	6.7	5.2
		50'	6.8	6.5	5.9	5.0	4.0
		75'	5.2	5.0	4.6	3.7	3.1
		100'	4.9	4.7	4.3	3.3	2.9
	5/8"	25'	12.3	11.7	10.3	8.9	6.8
		50'	9.0	8.7	7.6	6.5	4.9
		75'	7.2	7.0	6.4	5.4	4.1
		100'	6.4	6.2	5.5	4.9	3.8
2645	1/2"	25'	8.5	8.2	7.0	5.7	4.3
		50'	6.1	5.8	5.1	4.3	3.0
		75'	5.0	4.8	4.4	3.5	2.4
		100'	4.5	4.3	3.6	2.9	1.7
	5/8"	25'	11.4	10.8	9.2	7.4	5.1
		50'	8.6	8.3	6.9	5.6	4.0
		75'	7.0	6.6	5.7	4.6	3.1
		100'	6.1	5.9	5.0	4.2	2.9

Performance shown in gallons per minute.

TYPICAL APPLICATIONS



Flooded basements



Flooded window wells

Recommended Accessories

(see pages 26-27)

UTILITY PUMP SWITCH – 3035

Attach to Craftsman® submersible utility pump for automatic on/off operation.

DISCHARGE HOSE KIT – 27909

Provides alternative to garden hose for rapid removal of water from flooded area when used with 2655, 2645 and 26965. 1-1/4" hose 24' long.

High Pressure Sprinkler Pumps

▶ Depth to water: 20' or less



Hydro-Glass® Sprinkler Pumps

- | | |
|----------------------------|----------------------------|
| 2622 | 26255 |
| • 1 HP | • 1-1/2 HP |
| • GPM: Up to 55.0 | • GPM: Up to 67.0 |
| • Limited 2-year warranty* | • Limited 2-year warranty* |



Hydro-Glass® Sprinkler Pump

- 2623
- 2 HP
 - GPM: Up to 69.0
 - Limited 2-year warranty*

- Refer to chart on opposite page.
- Find system discharge pressure, in this case 30 PSI.
- Follow chart across and select pump that will deliver required gallons per minute or greater.
- In this case, the proper pump selection would be the 2622, 1 HP pump.

The Craftsman® Advantage

- Draincock**Simplifies draining and winterization.
- Maintenance Agreement (Optional)**Coverage that goes beyond many standard warranties.

Features and Benefits

- Dual Voltage Motor**Operates on either 115 or 230 volt household current.
- Capacitor Start Motor**Delivers more efficient motor start.
- UL Listed**.....Meets Underwriters Laboratory requirements for outdoor use.
- Hydro-Glass® Construction**Engineered to resist the most aggressive water conditions.

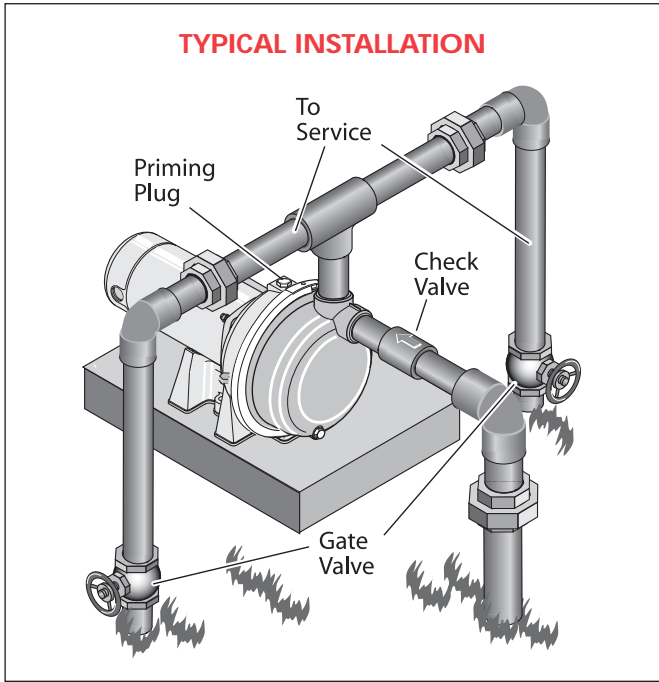
Pump Selection Guide

1. Maximum vertical suction lift from water source – 20 feet or less.
2. Number of sprinklers operating at a given time.
3. Maximum gallons per minute required for each sprinkler head.
4. Pressure requirement for system operation (minimum 30 PSI for adequate coverage).

EXAMPLE:

1. Suction lift = 15 feet
2. Number of sprinklers: 8
3. Gallons required per sprinkler: 3 GPM (typical)
4. Minimum pressure requirement = 30 PSI
5. Total gallons required = 24 GPM (8 sprinklers x 3 gallons each)

NOTE: If pump delivers more water than system requires, higher pressure will be provided, resulting in greater overall coverage.



Installation Tips

- Always read Owner's Manual completely before installing pump.
- Pump is pre-wired for 230 volt operation; if using 115 volt, consult Owner's Manual for simple wiring conversion. 2 HP operates on 230 volt only.
- Always fill pump body with water before starting.
- Install pump as close to the water source as possible. If pump is displaced more than 25' from water source, consult Owner's Manual for proper pipe size.
- For optimum pump performance, pipe size should be equal to or larger than the pump tapings.

IMPORTANT! Water source must be able to accommodate system demand during operation.

Pump Specifications and Performance

Stock Number	HP	Motor Voltage	Max Amps	Fuse Rating	Tapping Sizes		Suction Lift in Feet - Pump to Water	Discharge Pressure in Pounds per Square Inch								
					Suction	Discharge		10	15	20	25	30	35	40	50	55
2622	1	115/230V	14.8/7.4	20/15	1-1/2"	1-1/2"	5'	55	51	45	38	31	23	17	—	—
							10'	49	46	42	35	28	19	13	—	—
							15'	48	45	39	32	24	16	8	—	—
							20'	45	44	37	29	20	11	—	—	—
26255	1-1/2	115/230V	19.2/9.6	25/15	1-1/2"	1-1/2"	5'	67	66	61	55	48	39	33	18	—
							10'	61	58	56	52	45	37	27	14	—
							15'	56	55	54	51	44	34	20	8	—
							20'	46	45	44	43	37	28	11	—	—
2623	2	230V	12.0	15	2"	2"	5'	69	65	59	52	47	42	34	25	14
							10'	67	62	56	50	45	38	30	18	7
							15'	65	60	54	48	42	35	27	13	—
							20'	62	58	52	45	40	32	23	10	—

Performance shown in gallons per minute.

Recommended Accessories (see pages 26-27)

FOOT VALVES

- 275011-1/2"
 - 274112"
- Prevents water from draining back to source.

PRESSURE GAUGE

- 2768
- Displays system water pressure in sprinkler application.

Pool Filter Pumps



Thermoplastic Pool Pump

- 2628
- 1 HP
- 115/230V
- Maximum amps: 14.0/7.0
- 1-1/2" suction/discharge tapings
- GPM: Up to 70.0
- Full 1-year warranty*



Thermoplastic Pool Pump

- 2629
- 1-1/2 HP
- 115/230V
- Maximum amps: 17.4/8.7
- 1-1/2" suction/discharge tapings
- GPM: Up to 80.0
- Full 1-year warranty*

Features and Benefits

- Drainplug**Simplifies draining and winterization.
- Dual Voltage Motor**.....Operates on either 115 or 230 volt household current.
- Capacitor Start Motor**Delivers more efficient motor start.
- UL Listed**Meets Underwriters Laboratory requirements for outdoor use.
- Thermoplastic Construction**.....Engineered to resist rust and corrosion.

Determining Pool Capacity

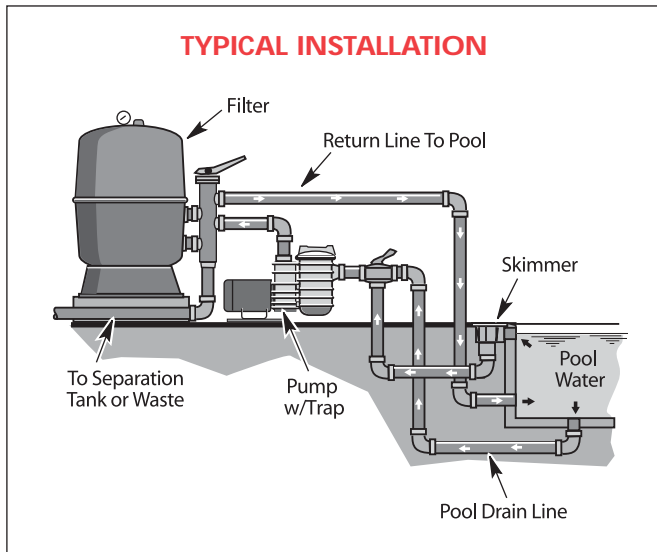
CIRCULAR POOLS						
3.14	x	1/2 dia. of pool	x	1/2 dia. of pool	x	Depth of pool x 7.5* = Total capacity of pool in gallons
Example:						
3.14	x	10 ft.	x	10 ft.	x	6 ft. x 7.5* = 14,130 gal.
OVAL POOLS						
Length of pool	x	Width of pool	x	Average depth of pool	=	Total cubic feet of pool x 6.7* = Total capacity of pool in gallons
Example:						
16 ft.	x	32 ft.	x	6 ft.	=	3,072 x 6.7* = 20,582 gal.
RECTANGULAR POOLS						
Length of pool	x	Width of pool	x	depth of pool	=	cubic feet of pool x 7.5* = Total capacity of pool in gallons
Example:						
16 ft.	x	32 ft.	x	6 ft.	=	3,072 x 7.5 = 23,040 gal.
*The factor for determining the number of gallons in a cubic foot.						

Pump Specifications and Performance Above-Ground Pools

Pool Capacity In Gallons	Recommended Pump Size	Maximum Gallons	
		Per Minute	Per Hour
15,000 to 25,000	1 HP	70	4,200
25,000 to 30,000	1-1/2 HP	80	4,800

In-Ground Pools

Up to 25,000	1 HP	70	4,200
25,000 to 30,000	1-1/2 HP	80	4,800



Installation Tips

- Always read Owner's Manual completely before installing pump.
- Pump is pre-wired for 230 volt operation; if using 115 volt, consult Owner's Manual for simple wiring conversion.
- Always fill pump body with water before starting.
- Pump inlet should be as close to water level as possible.
- Do not use pipe dope, use Teflon tape for making all threaded connections to pump.

SPECIALTY PUMPS

Gas Engine Pump and Accessories



SEARS

Thermoplastic Gas Engine Pump

26315

- 3 HP
- 4-cycle gas engine
- 2" suction/discharge tappings
- Full 1-year warranty*

Pump Performance

Suction Lift In Feet - Pump to Water	Discharge Pressure Pounds per Square Inch							
	5	10	15	20	25	30	35	40
0'	139	125	109	91	74	54	33	4
5'	133	118	102	84	65	45	23	—
10'	127	111	94	76	57	36	11	—
15'	120	104	86	68	48	25	—	—

Performance shown in gallons per minute.

Pump includes two 2" plastic pipe nipples for ease of connection to suction/discharge hoses.

Recommended Accessories

(see pages 26-27)

DISCHARGE HOSE

2731

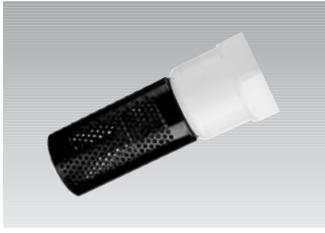
SUCTION STRAINER

2733

SUCTION HOSE

2735

Pump/Tank Accessories



Foot Valves

- 27481 – 1"
- 27491 – 1-1/4"
- 27501 – 1-1/2"
- 27411 – 2"



Pressure Switches

- 2764 – 20/40 Pressure Range
- 2781 – 30/50 Pressure Range
- 2782 – 40/60 Pressure Range

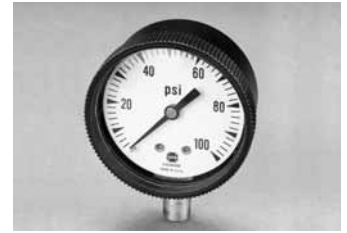
Switch replacement must be same pressure range as original switch on pump.



Pump Guard II

- 2721 – Low-Pressure Cut-Off Switch

For replacement of pressure switch in pump installations. Protects pump from damage due to insufficient supply of water from source.



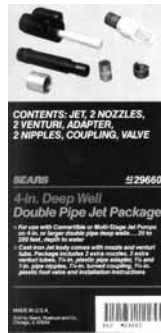
Pressure Gauge

- 2768



Shallow Well Jet Package

- 29650



4-in. Deep Well Jet Package

- 29660



2-in. Deep Well Jet Package*

- 2967



PVC Fittings Kit

- 27809



Centering Guide

- 2724 – (Qty. 8)



Cable Splice Kit

- 2753



Torque Arrestor

- 2750



Manifold Kit

- 2722



2-Wire Cable Kit

- 2710 – 125' – 12 Gauge



3-Wire Cable Kits

- 2709 – 125' – 12 Gauge
- 2704 – 250' – 10 Gauge



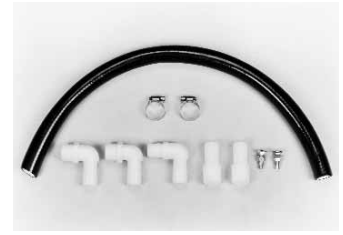
Safety Relief Valve
• 2729



Tubings and Fittings Kit
• 27881



Air Volume Control
• 2761



Pump-to-Tank Kit
• 2788



Pedestal Switch
• 2773



Sump Pump Check Valve
• 2789



In-Line Sump Pump Check Valve
• 2792



Sewage Pump Check Valve
• 2791 – 2"



Discharge Hose Kit
• 27909



Sump Pump Installation Kit
• 2771



Utility Pump Switch
• 3035



Collapsible Discharge Hose**
• 2731 – 2" x 25'



Suction Strainer**
• 2733 – 2"



Reinforced Suction Hose**
• 2735 – 2" x 15'

**Accessories for the Gas Engine Pump (Model 26315).

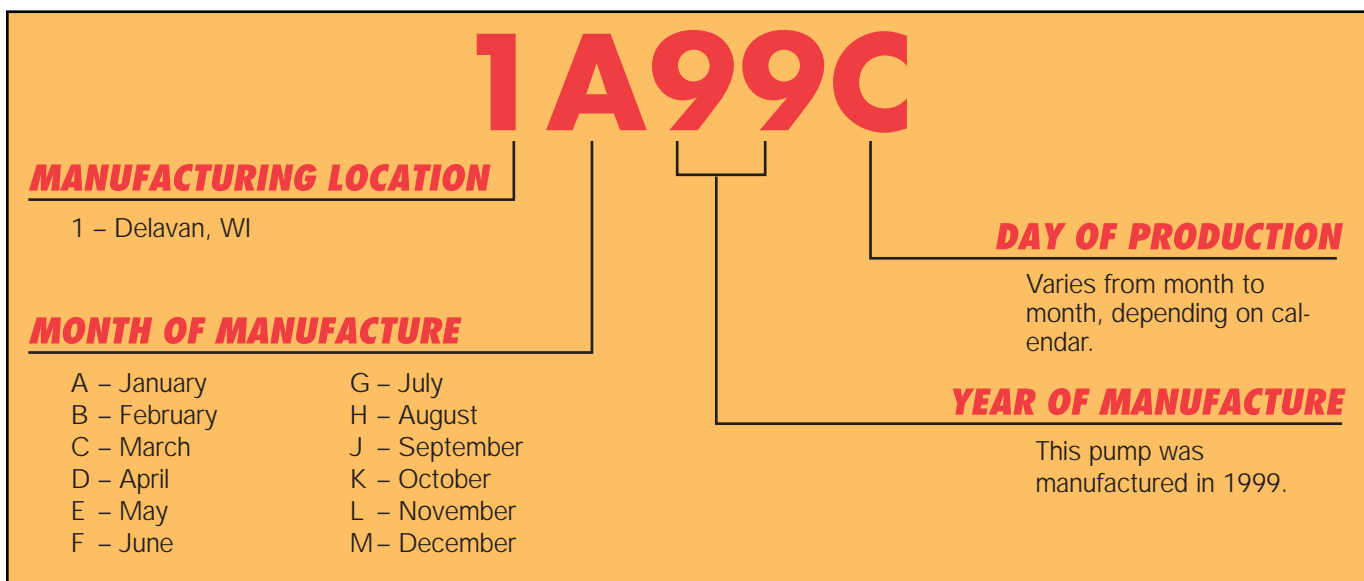
Pump/Tank Warranty Information

1. **Full 1-Year Pump/Standard Tank Warranty** – For one (1) year from date of purchase, Sears will repair or replace pump or standard tank, free of charge, if defective in materials or workmanship. **Labor included.**
 2. **2-Year limited Pump Warranty** – After one (1) year and through two (2) years from date of purchase, Sears will furnish, free of charge, a replacement part for any defective pump part. **Labor not covered.**
 3. **Full 2-Year Pump Warranty** – For two (2) years from date of purchase, Sears will repair or replace pump, free of charge, if defective in materials or workmanship. **Labor included.**
 4. **3-Year Limited Pump Warranty (Excluding Submersible Deep Well Pumps)** – After one (1) year and through three (3) years from date of purchase, Sears will furnish, free of charge, a replacement part for any defective pump part. **Labor not covered.**
 5. **3-Year Limited Pump Warranty (Submersible Deep Well Pumps Only)** – After one (1) year and through three (3) years from date of purchase, Sears will furnish, free of charge, a replacement submersible pump (not including Control Center*), if the pump is defective in material or workmanship. **Labor not covered.**
 6. **Full 5-Year Captive Air® Tank Warranty** – For five (5) years from date of purchase, Sears will replace the Captive Air tank, free of charge, if defective in materials or workmanship. **Labor included.**
 7. **5-Year Limited Standard Tank Warranty** – After one (1) year and through five (5) years, Sears will furnish, free of charge, a replacement standard tank if defective in material or workmanship. **Labor not covered.**
 8. **Limited Lifetime Warranty on Craftsman Professional Pumps** – Provided that it is installed and operated according to the instructions in the owner's manual, if this pump ever fails for the original purchaser due to a defect in material or workmanship, Sears will replace it free of charge. **You pay for labor if you choose to have Sears install the replacement pump.**
- * **Control Center** – covered by full 1-year warranty. Sears will repair or replace control center, free of charge, if defective in materials or workmanship. **Labor included.**

Reading the Manufacturer's Code Number – SOURCE 390

You can determine the date a SOURCE 390 pump or tank was manufactured, and where it was manufactured, by the manufacturer's code number located on every product model plate/decal. Be sure you read the **pump** model plate, not the **motor** model plate on top of the pump motor.

EXAMPLE:



Glossary of Terms

These terms provide the basic knowledge needed to become a Division 83 pump sales professional. More important, to answer the questions customers will ask to help them solve their water problems or needs.

Air volume control – Designed to maintain the air charge in a standard water storage tank. Captive Air® Tanks do not require an air volume control.

Atmospheric pressure – A force exerted upon the Earth's surface by the weight of air extending to a height of 25 miles above the Earth. At sea level, 14.7 pounds per square inch (PSI).

Captive Air® Tank – A pressurized water storage tank featuring a vinyl bag to separate water from air which prevents waterlogging. This tank design provides greater drawdown than standard tanks. Captive Air® Tanks do not require an air volume control. (See water storage tank, waterlogging, tank drawdown.)

Centrifugal force – The force created by a spinning or rotating motion resulting in the movement of water outward from a center point or axis. A pump uses an impeller to create centrifugal force.

Check valve – Allows water to move in only one direction which prevents water from returning to its source.

Convertible jet pump – For deep wells where pumping water levels are as far as 90 feet below the pump. Also easily converted for shallow wells where pumping water levels are no more than 20 feet below the pump. Jet packages must be purchased separately.

Cut-in pressure setting – The point at which the pressure switch turns the pump on.

Deep well – Well with a depth to water greater than 20 feet.

Discharge pressure – The amount of force, or pressure, of the water being discharged from the pump.

Drawdown – Amount of water delivered from pressure tank between pump turning off and pump starting again.

Dual voltage motor – Pump motor that can be operated on 115 or 230 volt service by simply changing the internal motor leads located under motor canopy to correspond with the power supply. (See drawing on page 30.)

Foot valve – Installs on end of pump suction pipe to prevent water from draining back to source. Includes strainer to minimize suction of debris into pump.

GPH – Gallons per hour.

GPM – Gallons per minute.

HP – Horsepower.

Jet package – Required for operation of convertible and deep well jet pumps. (See drawing on page 31.)

Jet pump – A centrifugal pump which requires a jet, either built in or purchased separately, to help build additional water pressure.

Multi-stage jet pump – For use on deep wells only, with pumping water levels as far as 210 feet below the pump. Jet package must be purchased separately.

PSI – Pounds per square inch. A unit of water pressure measurement.

Pressure – A force usually expressed in pounds per square inch (PSI).

Pressure switch – The switch that automatically turns the pump on and off at specified pressures 20/40 PSI, 30/50 PSI and 40/60 PSI. **IMPORTANT!** Always replace an old switch with a new switch with the same pressure settings.

- **20/40 pressure operation** – Pressure switch turns pump on at 20 PSI, off at 40 PSI.
- **30/50 pressure operation** – Pressure switch turns pump on at 30 PSI, off at 50 PSI.
- **40/60 pressure operation** – Pressure switch turns pump on at 40 PSI, off at 60 PSI.

Priming the pump – The initial filling of a jet or centrifugal pump with water so that the water can be moved.

Pump capacity – The amount of water a pump is capable of moving at a given pressure.

Safety relief valve – Required for all submersible pump installations to prevent over pressurization of water storage tank and system piping that could develop from pressure switch malfunction.

Shallow well – Well with a depth to water of 20 feet or less.

Shallow well pump – For use on wells where pumping water levels are no more than 20 feet below the pump. Features a built-in jet.

Standard Tank – A pressurized water storage tank where air comes in contact with water. Requires air volume control for proper operation.

Submersible control center – Installs above ground. Contains electrical starting components for 3-wire submersible deep well pumps.

Submersible deep well pump – For use on wells where pump water levels are up to 400 feet below point of use. Pump is submerged underwater in well.

Tank drawdown – The amount of usable water available from a water storage tank between pump stops and starts.

Waterlogging – The absorption of air by water stored in a water storage tank which greatly reduces the amount of usable water drawdown available from a tank.

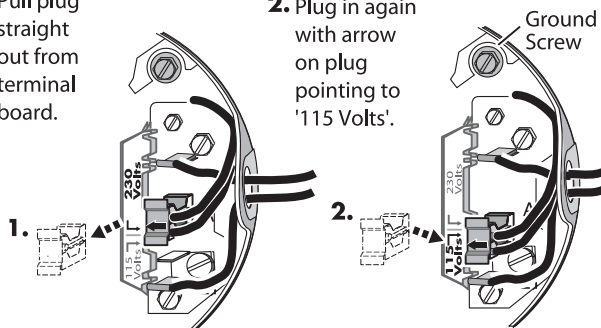
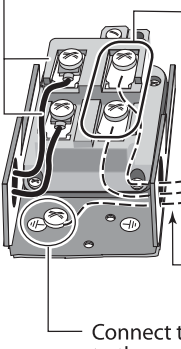
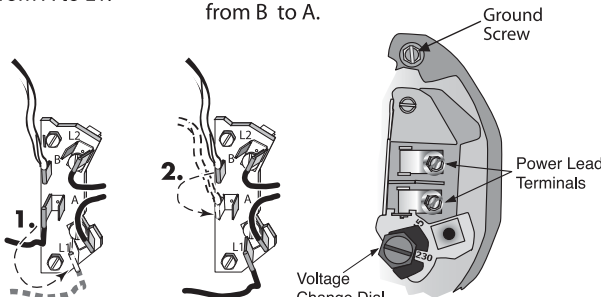
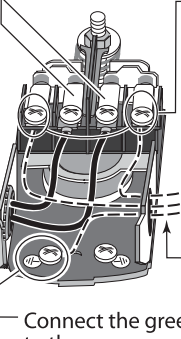
Water storage tank – Stores air and water under pressure to provide for automatic pump operation and a source of water when pump is not running.

Well diameter – Inside dimension of well casing.

Helpful Hints

To Convert Dual Voltage Motors from 230V to 115V

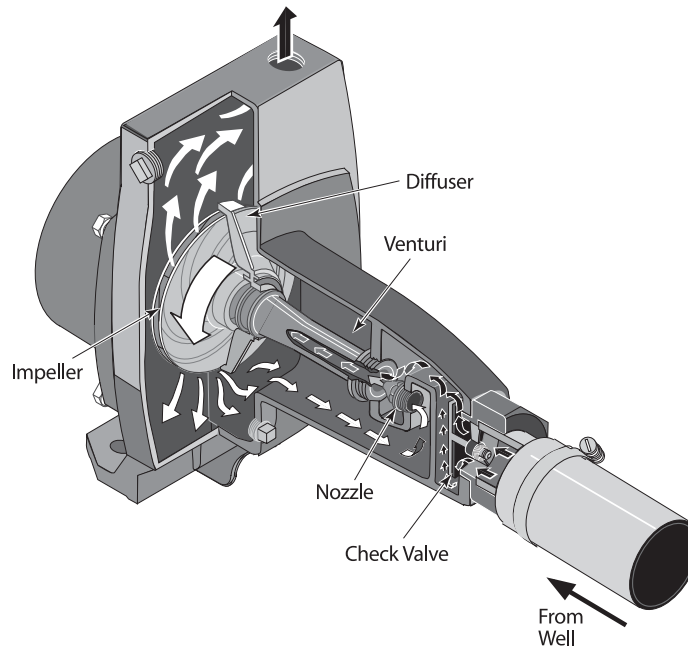
NOTE: Always read Owner's Manual completely before installing pump.

<p>230 Volt to 115 Volt Conversion, Plug-in Type:</p> <ol style="list-style-type: none"> 1. Pull plug straight out from terminal board. 2. Plug in again with arrow on plug pointing to '115 Volts'. 	<p>Motor wires connect here.</p> <p>Power supply wires connect here.</p> <p>230 Volt: Connect 2 hot wires (black and red) here and cap the white (neutral) wire. It does not matter which wire goes to which screw.</p> <p>115 Volt: Connect one hot wire (black or red) to one of these screws (it does not matter which one). Connect the white (neutral) wire to the other screw. Cap any remaining black or red wires.</p> <p>Clamp the power cable to prevent strain on the terminal screws.</p> <p>Connect the green (or bare copper) ground wire to the green ground screw.</p> 
<p>230 Volt to 115 Volt Conversion, Dial Type:</p> <ol style="list-style-type: none"> 1. Move black wire from A to L1. 2. Move white wire with black tracer from B to A. 3. Change Complete: Voltage Change Dial 	<p>Motor wires connect here.</p> <p>Power supply wires connect here.</p> <p>230 Volt: Connect 2 hot wires (black and red) here and cap the white (neutral) wire. It does not matter which wire goes to which screw.</p> <p>115 Volt: Connect one hot wire (black or red) to one of these screws (it does not matter which one). Connect the white (neutral) wire to the other screw. Cap any remaining black or red wires.</p> <p>Clamp the power cable to prevent strain on the terminal screws.</p> <p>Connect the green (or bare copper) ground wire to the green ground screw.</p> 

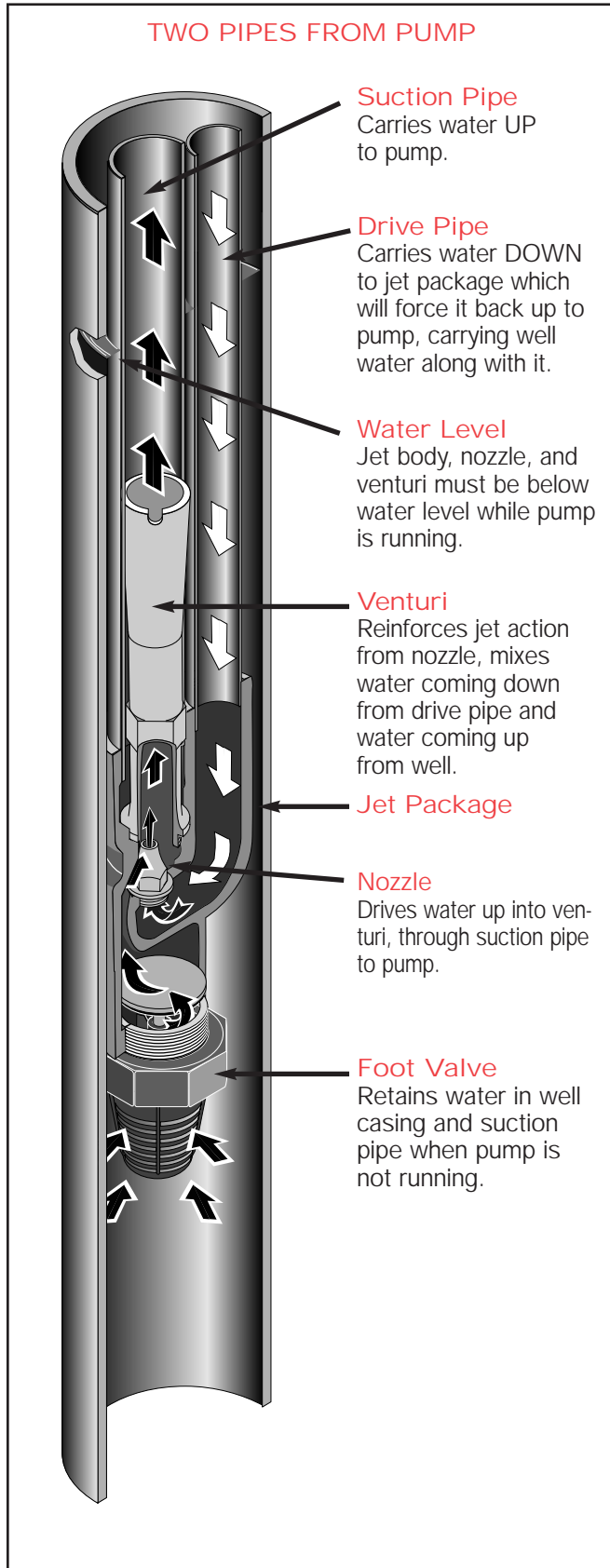
3187 0398

Shallow Well Jet Operation

ONE PIPE FROM PUMP



4" Deep Well Jet Operation



2" Deep Well Jet Operation

