



ITEM # 1011 677 533, 1011 677 534,  
1011 677 535, 1011 677 537

MODEL# HDSWJ5, HDSWJ7  
HDSWJ5P, HDSWJ7P

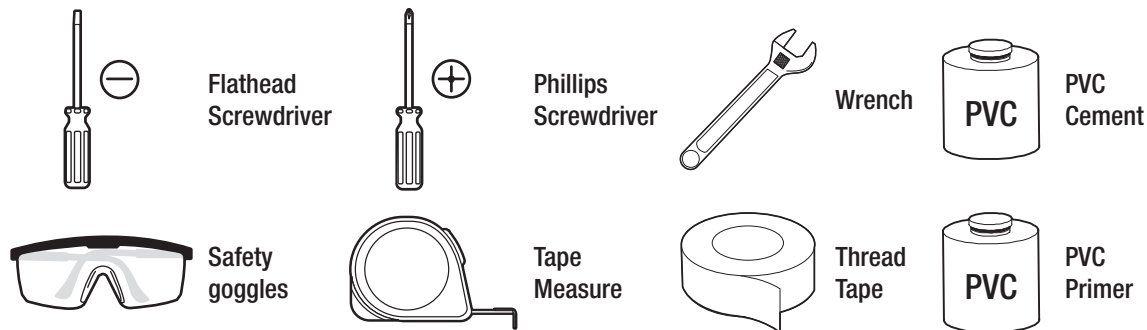
# PRE-INSTALLATION CHECKLIST

## SHALLOW WELL JET PUMP CAST IRON OR THERMOPLASTIC CONSTRUCTION

### APPLICATION

This unit is a single stage jet pump designed for shallow water well applications, where the water level is less than 25 ft. deep. If the water level to the pump is deeper than 25 ft. a convertible jet pump or a deep well submersible pump should be used. A pressure switch pre-set at 30 Psi "on", 50 Psi "off" has been installed on the pump. The pressure switch will automatically turn the pump on and off based on the system pressure.

### TOOLS REQUIRED



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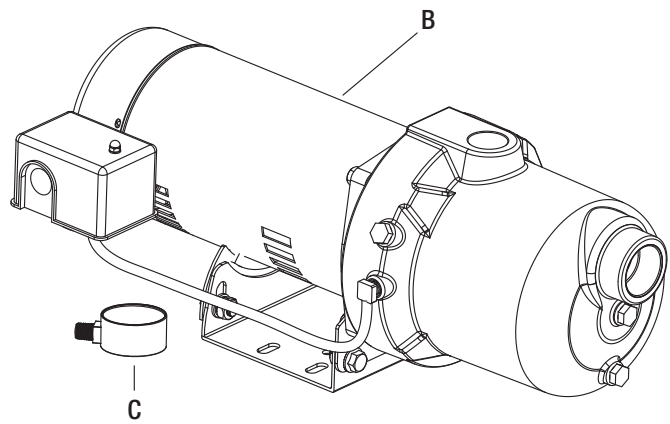
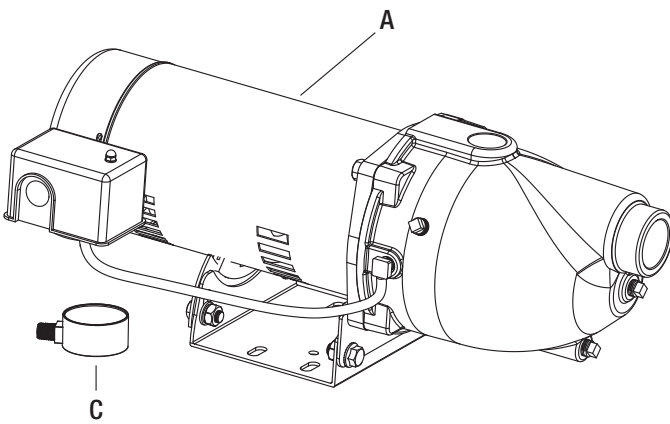
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**PACKAGE CONTENTS**



SKU #1011677533, 1011677534		
Part	Description	Quantity
A	Pump	1
C	Pressure Gauge	1

SKU #1011677535, 1011677537		
Part	Description	Quantity
B	Pump	1
C	Pressure Gauge	1

**DETERMINE THE DEPTH OF YOUR WELL**

Tie a small but heavy weight such as a fishing weight to the end of a piece of cotton string. Lower the weight into the well until it reaches the bottom of the well. Make a mark on the string at ground level. Pull the weight out of the well and measure from the bottom of the weight to the ground level mark. This is the depth of your well. Subtract 5 ft. from the depth of your well. If this number is less than 25 ft. shallow well installation should be taken. If this number is more than 25 ft. and less than 70 ft. deep well installation should be taken. If this number is more than 70 ft. a deep well submersible pump should be selected. Measure the ground level mark to the mark where the cotton string is wetted. This number is your well's water level. It should also be at least 10 ft. below the well's water level while the pump is running in order to prevent the pump from sucking air due to water level drawdown.



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### LOCATION OF THE PUMP

Decide on the area for the pump installation. Select a pump location with adequate space for future pump maintenance. It can be located in the basement or utility room of the house, in a crawl space, at the well, or between the house and the well. If installed outside of the house, it should be protected by a pump house with auxiliary heat to prevent possible freezing. Protect the pump against flooding and excess moisture. The well also should be protected by installing a well seal for sanitary reasons. Mount the pump as close to the well as possible.

### TANKS - PRE-CHARGED STORAGE

For best performance of the pump, it is recommended that you use a diaphragm pressure tank (sold separately). It is best to have this in place before installing the pump. A pre-charged storage tank has a flexible bladder or diaphragm that acts as a barrier between the compressed air and water. This barrier prevents the air from being absorbed into the water and allows the water to be acted on by compressed air at initially higher than atmospheric pressures (pre-charged). More usable water is provided than with a conventional type tank.

The pump has a 30/50 Psi pressure switch, which means the "cut-in" is 30 Psi; therefore, the tank needs to be set to 28 Psi. To check the pressure in the tank, use a tire pressure gauge (not included). If the tank pre-charged less than 28 Psi, re-charge air to the tank to 28 Psi with a tire pump or air compressor. If the tank pre-charged over 28 Psi, bleed out some air to 28 Psi.

### PERFORMANCE SPECIFICATIONS

SKU	Hp	GPM of Water @ Total Discharge Pressure of 40 Psi						Maximum Pressure
		0 ft.	5 ft.	10 ft.	15 ft.	20 ft.	25 ft.	
1011677535	1/2	11.5	10.3	9.1	6.7	6.1	5.5	64 Psi
1011677537	3/4	14.7	13.6	11.8	10.5	9.6	8.7	67 Psi
1011677533	1/2	15.1	14.1	11.8	9.6	7.8	5.6	63 Psi
1011677534	3/4	19.2	18.4	17.6	15.7	13.5	10.1	68 Psi

<b>Powers supply</b>	115V/230V, 60 Hz., 20/15 Amp Circuit
<b>Liquid temp. range</b>	32°F to 95°F (0°C - 35°C)
<b>Discharge size</b>	1 in. FNPT
<b>Suction size</b>	1-1/4 in. FNPT
<b>Water level</b>	25 ft.



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### MATERIALS REQUIRED (NOT INCLUDED) (REQUIREMENTS VARY BY INSTALLATION OPTION, SEE BELOW)

Additional items needed	Size
Foot Valve	1-1/4 in.
Priming Tee	1-1/4 in.
NPT Plug	1-1/4 in.
Coupling	1-1/4 in.
PVC Pipe Schedule 80, or PVC Pipe Schedule 40 - Suction Pipe	1-1/4 in.
PVC Pipe Schedule 80, or PVC Pipe Schedule 40 - Discharge Pipe	1 in.
Coupling	1 in.
Threaded Adapter	1-1/4 in. Male Adapter
Well Seal	4 in.
Flexible PVC Coupling	1-1/4 in.
Check Valve	1-1/4 in.
Discharge Tee	1 in.
Priming Tee	1 in.
NPT Plug	1 in.

 **NOTE:** The table to the left suggests the common materials needed (but not included) for the various installation options (drive point, cased well and surface water). It assumes the use of 1 in. plumbing on the discharge outlet side of the pump, and 1-1/4 in. plumbing on the inlet suction side of the pump. These match the female NPT connection threads of the pump body. If replacing a existing pump that used larger diameter discharge or suction piping, reducer fittings are required. DO NOT use suction piping or fittings less than 1-1/4 in. or performance will be severely affected.

 **WARNING:** All joints and connections must be AIRTIGHT. A single leak will prevent the proper operation of the pump. Wrap thread tape clockwise on all threaded connections. For all non-threaded connections, you must use PVC Purple Primer and PVC Cement to ensure airtight seals. Measure all pipe lengths before attaching.

 **NOTE:** Either Schedule 40 or 80 pipe will work in this installation. Be sure to check your state and local building codes.

 **NOTE:** A foot valve is a check valve that is used to keep the water from running back into the well from the pump and maintain hydraulic pressure when the pump is not running. If the foot valve does not hold the water the pump will lose it's prime and will not pump water. If the foot valve open pressure is too high (the spring is too stiff), or the flow area is too small, the pump suction head and flow rate will significantly drop.

 **NOTE:** The suction pipe size should not be less than 1-1/4 in.

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