RPS Water Assurance Plan™

Our time-tested process ensures you have the right pump, parts, and tools for a fast and easy install.

1

Ensure Solar Pumping is the Right Choice for Your Site

Solar pumps are only the best option if you have..

- a. Well casing diameter of 3" or more
- b. Good southern exposure for solar panels near water source (within 500 feet of the well)

2

Determine Pump Size with Online Algorithm

- Estimate rough daily water usage in gallons
- Estimate depth to water in well, additional vertical rise, height of tank, horizontal distance
- Takes an average of 2 minutes to complete sizing form

START NOW

or CALL 888-637-4493

3

Project Review & Installation Overview

- Chat with the famously helpful RPS team
- Review sizing calculations and equipment checklists
- Confirm pump sizing, available options, common questions, installation

CALL 888-637-4493

4

Choose Delivery Timing & Order Pump

- Standard Ground Shipping is free and includes insurance to protect your investment
- Expedited shipping available when needed
- 30 Day Money-back Water Guarantee

CALL 888-637-4493



RPS Water Assurance Plan™ Outline

This step-by-step process ensures you get the right pump, parts, and tools for a fast and easy install.

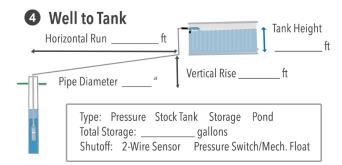
1	A few requirements that we need to ask first If you're pumping from a well, is your well casing larger that 3.5"? Do you have good southern exposure for solar panels near the well or water source? (within 500ft ideal)
2	From:WellPondSpringTankNot DrilledOther Into:Stock TankHolding TankPondPressure tankOther

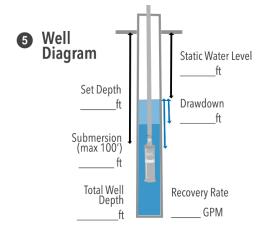
Hauling Water: Paying Someone Personally Other: _____ Cost: \$_____ Mileage: _____ Frequency: ___ Repairing Windmills: Every ______ Weeks, Running Generator: Every _____ days, Paying Electric Bill: \$_____/month

Considering other options: _____ Cost: ____ Timeline?

3 Water Usage

Usage: Cattle Animals Humans Plants Water Needed per day: ____ LIVESTOCK Number of Head: Head





Head Calculations

Static Water Level + Vertical Rise + Frictional Loss Total Head (TDH) _____ft INTO PRESSURE (if using pressure switch shutoff) Static + Rise + Frictional Loss + Pressure (1psi=2.31ft) Total Head (TDH) _____ft

City / State:
Date://
Engineer:
GPD:gallons TDH:ft
Pump Selected: RPS

6 Downhole Pump Plumbing

Outlet Female Pipe Thread (NPT): 1/2" 3/4" 1" 1-1/4" Pipe Size: 3/4" 1" 1-1/4" +Check Valve Pipe Material: Steel PVC Black poly (recommended)

Frictional head loss over distance of poly pipe*											
	Diameter										
Length	1/2"	3/4"	1"	1¼"	1½"						
100'	20'	5'	1.7'	0.5'	negligible						
500'	NR	27'	8.5'	2.3'	1.1'						
1,000'	NR	54'	17'	4.6'	2.2'						

The amount of total pump head (shown in feet) increases due to friction over long horizontal distances of poly pipe depending on the diameter of the pipe. Smaller diameter pipe adds more head to the

*Calculated using an average flow of 5 GPM at 70°F NR = not recommended

Well Head Plumbing

Casing: Steel PVC 4" 5" 6" 8" Other____ Additional: Nipple Coupler Elbow Tee FREEZE PLAN: Pitless/Trenching Drain-Back Seasonal

Solar Panel Location & Tilt Solar Panels to Well: ft Note on Solar Extension Wire (20ft comes in kit) If distance from panels to well is under 200 feet, use 12 gauge 2 strand wire to extend. If over 200ft, more panels may be needed. Mount controller at well head if possible.		Fixed Por Tilt Ang 37° 33° 30° 26°	Parameter States	mmer/ Winter Tilt Angles Tilt Angles File Your Control of the Your Your Control of the Your Control of t	2° / 41° 7° / 45° 11° / 50° 16° / 54°
TURNKEY Shopping List 8-10ft 2" Sch40 Pipe (For each 2 Panel Mount) 8-10ft 4" Sch40 Pipe (For each 4 Panel) Bags Concrete	TURNKE' Length: Pipe: 3/- Casing D Mountin	Y SIZING 100ft 200ft 300 4" 1" liameter: 4" 5" 6" g: 2 Panel	Oft 8" 4 Panel		
OR DIY Shopping List				- 1	
	Amt.	On Site	Local Store	Online	RPS
Poly Rope 1/4" 3/8"	ft				_
Drop Wire 12-3 10-3 12-4	ft				_
Drop Pipe 3/4" 1" 1-1/4"	ft				_
Sensor Wire (if needed) 18-2 20-2	ft				_
Solar Extension Wire (if 20' is not enough) 12-2	ft				_
Well Seal, Barbs, Nipple,	Coupling, _	Elbow,	Tee,	Other	
Solar Panel Mounting 100w (~26"x39" Fra	ames)	Array dim	ensions (rough))	
Controller Mounting Piece of Plywood (at le	ast 16" x 10")	U bolts or othe	er to fasten plyw	ood	
Grounding Copper Grounding rod					
Other Items: Teflon tape Electrical	•		1 '	,	
11 Tools & Equipment to Bring Wire stripper/crimper Heat g Screwdrivers (flat and Phillips head) Multi	gun, torch or lighte meter (highly reco et with water for te	sting the system be recommended.	efore dropping	So So	RPS LAR PUMPS

12 RPS Water Assurance Completed

Great work! You've got the right solar pump system selected now and we've made sure you'll have what you need with you to install. We'll send along this completed worksheet in the box with your system for additional reference. This is exciting. A new era for you getting the sun to haul water for you. Most customers tell us they are kicking themselves for not finding our pumps sooner, with how much time and money they have saved - time that can be spent with family, friends, fishing and whatever. Call us up and we'll get a pump system coming your way today!