

Basepump Pre Installation Checklist when you're choosing the best water powered backup sump pump:

BASEPUMP WATER SUPPLY PRE-INSTALLATION CHECKLIST

Important! Pre-Qualify Your System

Pre-Installation 4 Point Checklist

Before installing, use this handy checklist to verify each item below. Improper installation will result in reduced pumping capacity or pump may not operate at all. Each pump model has slightly different requirements so take note of each model number and the information associated with it.

1. Household Water Pressure

Minimum: 40 lbs. PSI

Maximum: 90 lbs. PSI

Compensate for normal pressure loss from test point to Basepump location. Avoid excessive piping from "tee-in" location, whenever possible. If incoming municipal water pressures exceed 90 lbs. PSI, then it is necessary to "tee-in" after the Pressure Regulator Valve (PRV) to protect the pump valve from damage.

2. Household Water Flow – Extremely Important, DO NOT SKIP THIS TEST

You **must** be able to fill a **bucket** with **five gallons** of water from an outside hose spigot at the following rates:

RB750: 40 seconds or less

HB1000: 30 seconds or less

CB1500: 20 seconds or less

If it takes longer, you may have a restriction that must be bypassed or removed to maximize pumping capacity. If your reading is on the border of these numbers, you may select either one. Keep in mind that you can always get the smaller one, but not always the larger one. Example: you get a reading of 30 seconds. You may choose either the RB750 OR the HB1000. The RB750 will run at the higher end of its range 850–900 GPH, but the HB1000 will run at the lower end of its range 950–1000 GPH. The difference may be very small between them. **"Frost-Free" spigots** restrict flow by about 30% so adjust the time you measure by reducing it by 30% after you fill the bucket. (e.g. A 40 second "frost-free time" would adjust to 28 seconds "regular spigot time"), allowing us to use the same chart for both types.

3. Type of Piping

RB750: 1/2" or 3/4" Pipe

HB1000: 3/4" Pipe

CB1500: 3/4" or 1" Pipe

Must be installed using copper, CPVC, OR PEX pipe (check local codes if unsure) in the sizes indicated below. DO NOT connect to or install using galvanized iron pipe. The smaller Inside Diameter and the potential for rust and debris to break loose could hinder pump from operating properly.

Pipeline Restrictions

No Restrictions

Basepump must be teed-in before any devices that restrict water flow. Examples of such devices are: stop & waste valves, globe-type valves, pressure regulator valves (PRV), water conditioners, filters, etc. Water meter must be minimum 3/4" standard (usually marked as 5/8"). A Dual Check Valve or an SVB (Spill-Resistant Vacuum Breaker) Backflow device installed in the water supply line before Basepump is often required and should pose no problem. The more flow-restrictive, Reduced Pressure Zone (RPZ) devices will often prevent Basepump from operating. We offer backflow devices in two versions as optional equipment. One is a dual check valve and the other is a built-in AVB device. If you are unsure if you need one, take a look first and then contact your local plumbing department if you have any further questions. Refer back to point #1 if incoming pressures exceed 90 lbs. PSI

