BORE WELL PUMPS

River Pump

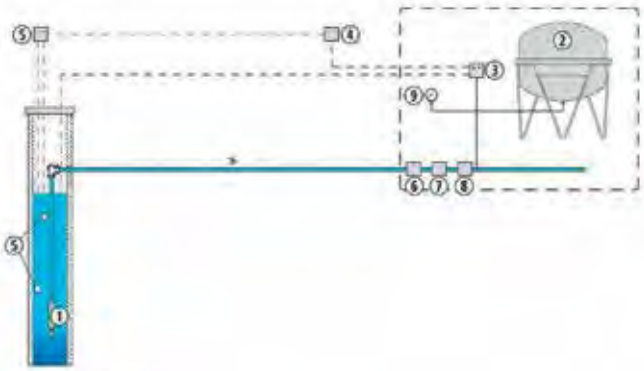
Ensure water availability through Franklin quality.

USE SITES

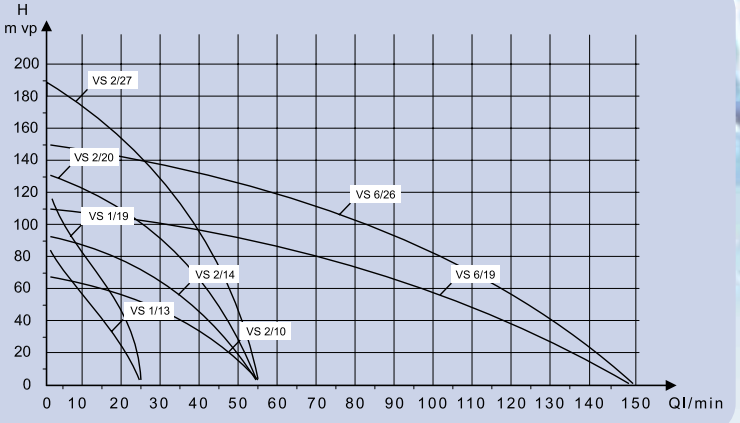
The RIVER 4” pump is designed for use in deep-drilled wells for pumping household water in private homes, agriculture and industry.

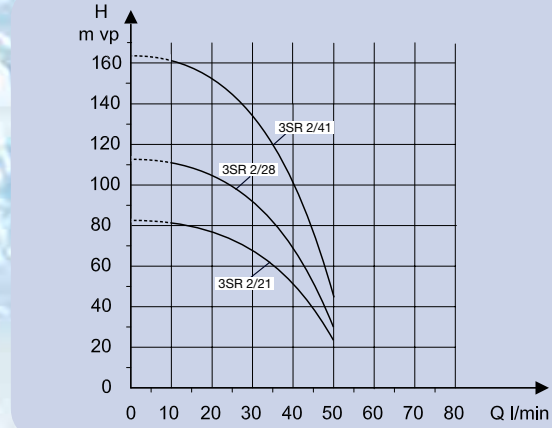
- Deep well pump for drinking water
- Available as ready-made packages
- Franklin pump and electric motor
- Aqua electric cable
- Cooling jacket available as an accessory

Bore well pump as a pressure system



PERFORMANCE CURVES





RIVER PUMP BORE WELL PUMPS

Use sites

RIVER pumps are designed for cold, clean water.
RIVER is suitable for pumping water for domestic use and irrigation in family homes, holiday housing, farm environments and for industry use.

It has many possible uses but most commonly, it is used as a pressure system together with a pressure tank. This is also available as a package delivery. In case the need for water is low, the pressure tank and pressure valve can be replaced with a pressure switch (single-phase) which starts the pump as soon as the tap is turned on and stops it when the tap is turned off. When pumping into an open top tank or for irrigation, RIVER can also be operated manually.

RIVER pumps can be installed in a way that stops them from freezing even when the pipe cannot be installed below the ground frost penetration depth. In this case, the pressurised pipe must slope down evenly from the use site to the well. Remove the non-return valve from the pump and install an air release valve that is specifically designed for this use and a non-return valve in the use site before installing the pressure tank. This means that when the pump stops, the water that is still in the pressurised pipe flows back into the well, automatically emptying the pipe. When the pump starts again, the air in the pump is pushed out through the air release valve. When the water level reaches the valve, it closes automatically and the water flows into the pressure tank.

Choosing the right pump

When choosing the right pump size, consider the following factors:

- are you using a single- or three-phase current
- the depth of the well and water level from the ground level
- the distance and elevation difference between the well and use site
- the preferred pressure area of water, i.e. the adjustment values of the pressure switch
- the need for water

Choose the pump that helps you to achieve the total head with the smallest water volume necessary. The total head consists of the level difference between the lowest level of the water surface and the water extraction point, tubular resistors (approximately 0.4 m per 10 metres of length in 1" pipes) and the switch-off pressure of the pressure switch in metres (10 mvp=1 bar). Choose the pump by using the attached power charts.
If the well production is very low, the pump should be protected with a dry-run protection.

Installation

Installing RIVER is easy. The pump, including the electric cables and pipes, is lowered into the well. The pump is hung at a minimum of 5 metres from the bottom of the bore well. If you are using an electronic dry-run protection (electrode switch), install the lower electrode in a way that does not allow the water level to lower closer than 1–3 metres from the top of the pump.

It is recommended that the pressurised pipe is made of plastic. Three-phase engines must be protected against overloading and phase failures with a motor-circuit switch. Do not operate the RIVER pump dry; however, when submersed into water, it does not need to be primed.

The following parts are usually needed in the installation of a bore well pump: Pump, electric cable and safety cable. We recommend using the high-quality Beulcon connections as pipe connections. A 32 mm plastic pipe is generally used for summer cottages and family houses. Cover or lid for the bore well. Plastic pipe connections and brass parts for the top of the bore well (often used with a 32 mm plastic pipe corner). The pressure tank system 50 l or 25 l. The pressure tank system includes the pressure tank, pressure switch (which runs the pump), pressure gauge and relief valve. The pressure tank must be placed in a space suitable for water appliances where the temperature does not go below zero. In addition, a three-phase water pump always requires a motor-circuit switch. If the well's production is low when compared to its use, it is a good idea to equip the pump with a dry-run protection.

Technical details 4" bore well pumps

Available as just the pump or a 40–130 m package. The package includes the ready-measured pump and cable for portable water.

Product no. HCAC code	Packages	Type	Motor	Maximum head height	Max. flow	Pipe connection	Diameter
		RIVER VS 1/13	0,37 kW/1-v 4,1 A	83 m	25 l/min	sk 1 1/4"	95 mm
4761025	40 m package	RIVER VS 2/10	0,55 kW/1-v 5,8 A	67 m	55 l/min	sk 1 1/4"	95 mm
4761020	40 m package	RIVER VS 2/10	0,55 kW/3-v 1,6 A	67 m	55 l/min	sk 1 1/4"	95 mm
15457	60 m package	RIVER VS 1/19	0,55 kW/1-v 5,8 A	118 m	25 l/min	sk 1 1/4"	95 mm
4761021	60 m package	RIVER VS 2/14	0,75 kW/1-v 7,3 A	94 m	55 l/min	sk 1 1/4"	95 mm
4761022	60 m package	RIVER VS 2/14	0,75 kW/3-v 2,0 A	94 m	55 l/min	sk 1 1/4"	95 mm
21081	80 m package	RIVER VS 1/19	0,55 kW/1-v 5,8 A	118 m	25 l/min	sk 1 1/4"	95 mm
4761023	80 m package	RIVER VS 2/20	1,10 kW/3-v 2,8 A	133 m	55 l/min	sk 1 1/4"	95 mm
4761024	100 m package	RIVER VS 2/20	1,10 kW/3-v 2,8 A	133 m	55 l/min	sk 1 1/4"	95 mm
10879	130 m package	RIVER VS 2/27	1,50 kW/3-v 3,9 A	189 m	55 l/min	sk 1 1/4"	95 mm
		RIVER VS 6/19	2,20 kW/3-v 5,5 A	110 m	150 l/min	sk 2"	95 mm
		RIVER VS 6/26	3,00 kW/3-v 7,5 A	150 m	150 l/min	sk 2"	95 mm

The correct values must be checked from the motor's type plate in connection with the installation and a non-return valve must be used.

Technical details 3" bore well pumps

Available as a ready-made package.

Produkt nr VVS-kod	Paket	Typ	Motor	Största lyfthöjd	Max. flöde	Rörkoppling	Diameter
4761035	30 m package	3 SRm 2/21	0,55 kW/1-v 4,5 A	83 m	50 l/min	sk 1"	76 mm
4761031	60 m package	3 SRm 2/28	0,75 kW/1-v 6,0 A	111 m	50 l/min	sk 1"	76 mm
4761037	80 m package	3 SRm 2/28	0,75 kW/1-v 6,0 A	111 m	50 l/min	sk 1"	76 mm
4761033	60 m package	3 SR 2/28	0,75 kW/3-v 2,6 A	111 m	50 l/min	sk 1"	76 mm
4761039	80 m package	3 SR 2/28	0,75 kW/3-v 2,6 A	111 m	50 l/min	sk 1"	76 mm
4761042	100 m package	3 SR 2/41	1,1 kW/3-v 3,5 A	162 m	50 l/min	sk 1"	76 mm

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