

GROUNDWATER PUMPS

Sta-Rite Signature 2000 - Submersible borehole pumps
Pentek - Motors & controls



Sta-Rite

Our range of Submersible Borehole Pumps continues to set the highest standard for this category. They incorporate unique features that set them apart for use even in rough or aggressive water.

Our HighFlo Submersible Borehole Pumps are designed to move more water further. They are reliable and efficient under the toughest of conditions.

Pentek

The Pentek range of 4" 2-wire and 3-wire motors and the Pentek Intellidrive for intelligent variable frequency control completes our extensive range of borehole products.



SUBMERSIBLE BOREHOLE PUMPS

S2000



- The impeller stack is of a floating design, so that individual impellers can move vertically to allow small solids to pass through, rather than locking up the pump
- Large hexagonal shaft transmits power without wear or flex
- Heavy gauge outer shell makes it strong, rigid and long lasting
- Superior ceramic wear surface reduces problems running in sandy or abrasive water
- Floating impeller design reduces sand lock up problems and ensures a longer motor life and trouble free operation

Applications:

- Residential, irrigation, water transfer and stock watering.

20 Litre pump			
The 20 litre pump range are manufactured to a special TRIMLINE OD of 3.75" and features bronze ends for corrosion protection. Discharge 1 1/4" BSP.			
MODEL	HP	kW	Stages
20S4FTL	1.5	1.10	29
20S4ETL	1.0	0.75	22
20S4DTL	0.75	0.55	15
20S4CTL	0.5	0.37	11

30 Litre pump			
Glass reinforced engineering plastic ends for corrosion protection. Discharge 1 1/4" BSP.			
MODEL	HP	kW	Stages
30S4GT	2.0	1.5	30
30S4FT	1.5	1.1	20
30S4ET	1.0	0.75	16
30S4DT	0.75	0.55	12

50 Litre pump			
Glass reinforced engineering plastic ends for corrosion protection. Discharge 1 1/4" BSP.			
MODEL	HP	kW	Stages
50S4GT	2.0	1.5	22
50S4FT	1.5	1.1	17
50S4ET	1.0	0.75	12
50S4DT	0.75	0.55	9

70 Litre pump			
Glass reinforced engineering plastic ends for corrosion protection. Discharge 1 1/4" BSP.			
MODEL	HP	kW	Stages
70S4HT	3.0	2.2	26
70S4GT	2.0	1.5	17
70S4FT	1.5	1.1	13
70S4ET	1.0	0.75	10

90 Litre pump			
Glass reinforced engineering plastic ends for corrosion protection. Discharge 1 1/4" BSP.			
MODEL	HP	kW	Stages
90S4HT	3.0	2.2	18
90S4GT	2.0	1.5	12
90S4FT	1.5	1.1	10

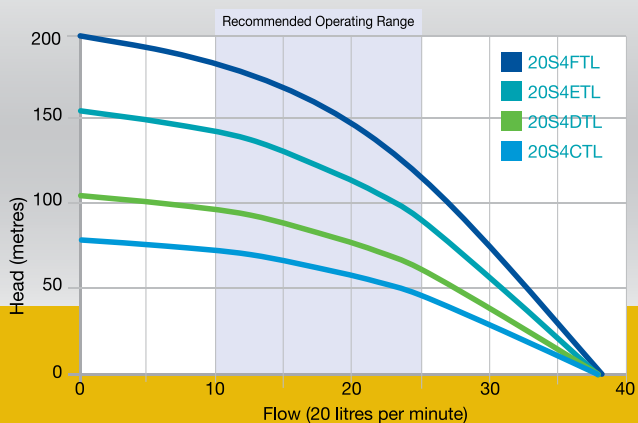
150 Litre pump			
Glass reinforced engineering plastic ends for corrosion protection. Discharge 1 1/4" BSP.			
MODEL	HP	kW	Stages
150S4KT	7.5	5.5	30
150S4JT	5.0	3.7	20
150S4HT	3.0	2.2	12
150S4GT	2.0	1.5	8

SUBMERSIBLE BOREHOLE PUMPS

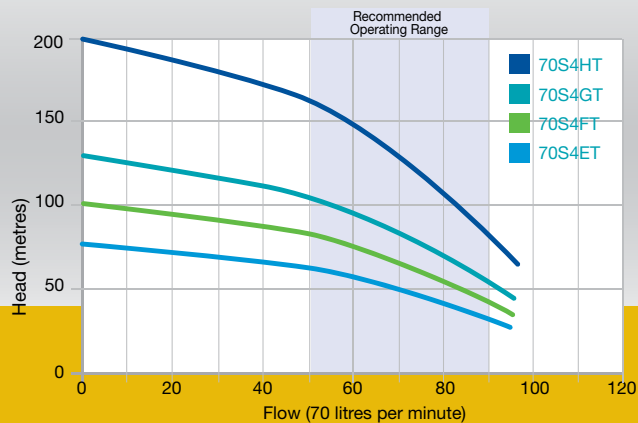
S2000



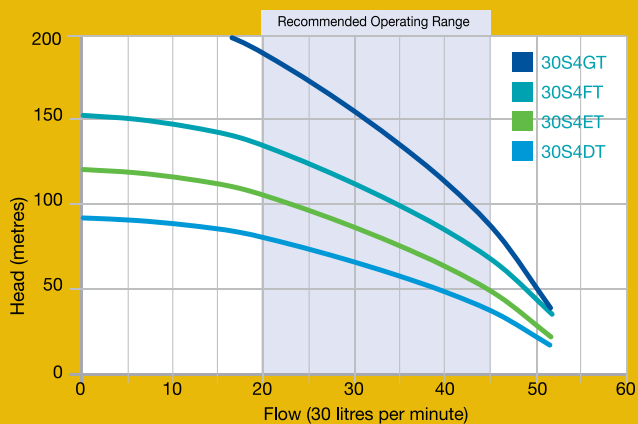
20S4 Range Performance



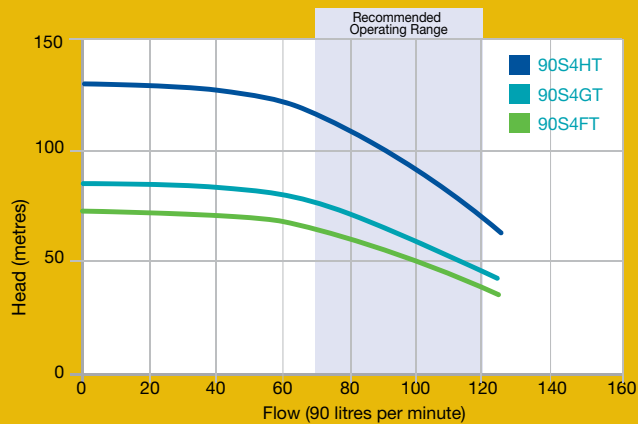
70S4 Range Performance



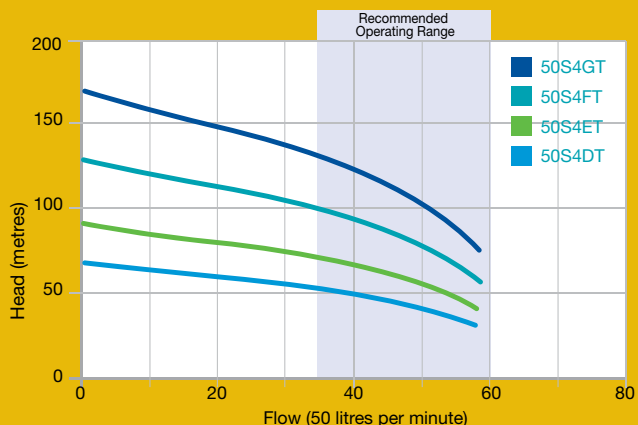
30S4 Range Performance



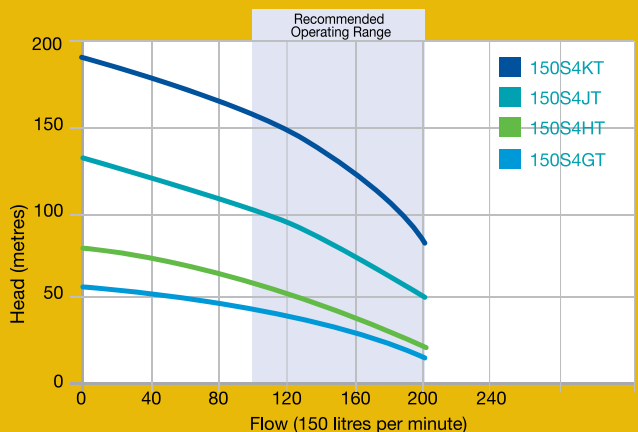
90S4 Range Performance



50S4 Range Performance



150S4 Range Performance



SUBMERSIBLE PUMPS

HIGHFLO RANGE



- Impellers are moulded from polycarbonate and reinforced with glass fibre to ensure smooth water passage for minimum friction loss, and at the same time provide resistance to abrasive materials
- For high-yielding bores, the best available pump is the Sta-Rite HighFlo

Construction features

- Upthrust washer: Phenolic washer at each stage for wear resistance. Positioned between 2 stainless steel inserts, one at the top of the impeller and one at the bottom of the diffuser
- Impeller: 20% glass filled polycarbonate. 300 series stainless steel flange ring for radial wear resistance at the impeller eye
- Cup: Glass-filled noryl (GFN-2, 20%). Full floating stack design

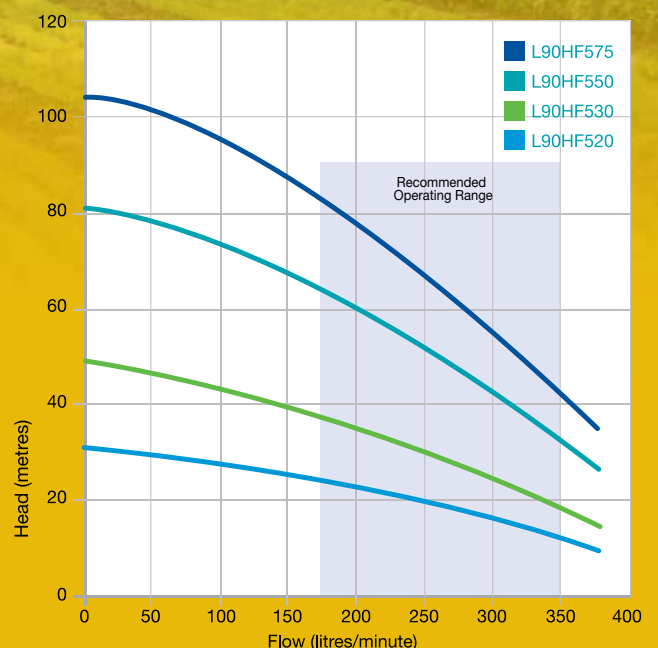
Internal components

- Impeller eye seal: Urethane material provides protection and allows sand particles to pass through the intake area without enlarging the disc eye or the impeller eye
- Diffuser: 20% glass filled polycarbonate. Includes 300 series stainless steel insert for radial protection. Each stage also includes a urethane bearing. Inside each urethane bearing is a 300 series stainless steel bearing
- Top bearing: Acetal – enclosed top bearing with seal
- Heavy-duty cast stainless steel discharge enables smooth water passage through 2" port
- Large wrench flats make for easier installation for torquing up to column
- Sealed and lubricated top bearing keeps abrasives out for longer operational life
- 2mm thick heavy gauge shell means ultimate strength



250 Litre pump			
Glass reinforced engineering plastic ends for corrosion protection. Discharge 1 1/4" BSP.			
MODEL	HP	kW	Stages
L90HF575	7.5	5.5	23
L90HF550	5.0	3.7	18
L90HF530	3.0	2.2	11
L90HF520	2.0	1.5	7

• Highflow Range Performance



Applications:

- Irrigation and water transfer.

PENTEK SUBMERSIBLE MOTOR RANGE

4" MOTORS



- Pentek submersible motors are unique in providing the industry with innovative and robust design features that will extend the life of your installation
- Equipped with lightning and surge arrestors
- Professional-grade class B-compliant motor insulation – allows for long serviceable life
- Superior performance using the Pentair SMC5 motor controls. 3-Wire Motors will also operate with other compatible single-phase control boxes
- 650lb rated thrust bearing design – large high-performance bearings are standard on all motors, providing many years of trouble-free service
- All stainless steel exterior
- CSA and UL approved

4" Pentek motor data					
2 - Wire					
kW	HP	Voltage	Frequency	FLC	LRC
0.37	0.5	230	50	3.5	15.6
0.55	0.75	230	50	4.3	18.6
0.75	1.0	230	50	5.9	23.5
1.1	1.5	230	50	7.8	32.6
3 - Wire					
kW	HP	Voltage	Frequency	FLC	LRC
0.75	1.0	230	50	6.4	24.9
1.1	1.5	230	50	9.4	36.6
1.5	2.0	230	50	12.4	49.4
2.2	3.0	230	50	17.4	69.5



PENTEK VARIABLE SPEED CONTROLLER

INTELLIDRIVE

The benefits of our Intellidrive Variable Speed Controller.

- Maintains constant water pressure for submersible pump systems
- Automatically adjusts motor speed to meet changes in water demand
- Instantaneous feedback from an electronic pressure transducer instructs the drive to change the submersible pump motor speed to maintain constant pressure throughout the system
- Energy savings from managed speed
- Pentek Intellidrive with LED displays written faults clearly on the screen to avoid any confusion – no flashing lights or guessing required



Pentek Intellidrive performance data			
Motor	Input	Output	kW Range
3 - Wire	1 - Phase	1 - Phase	0.75 - 1.5



ADVANCED TECHNOLOGY. SUPERIOR PERFORMANCE.



- Backlit LCD Display** Status indication and diagnostic messaging
- Fault Log** Stores 15 faults with timestamps
- Keypad Lockout** Provides operational security from unintended adjustments
- Multi-Lingual Options** Choose English, French or Spanish
- LED Status Indication**
- Auto-Start** With automatic line-fill functionality

On-Screen diagnostics indicator
Self-diagnostic messaging for ease of service

- Our diagnostic features and built-in protection include:
- Over Current
 - Over Voltage
 - Under Voltage
 - Rotor Jam
 - Dry Run
 - Ground Fault
 - Over Temperature
 - Pipe Break
 - Jam Warning
 - Lightening Arrester