

A man wearing a grey suit, a light blue shirt, a white hard hat, and glasses is smiling while looking at a tablet. He is standing in an industrial facility with large pipes and machinery in the background. The lighting is warm and focused on him.

MEET YOUR WATER TARGETS IN THE MOST EFFICIENT WAY

SPE SYSTEM WITH THE MS6000P MOTOR

GRUNDFOS 

MEET WATER TARGETS WITHOUT WASTING ENERGY

Are you tired of oversized submersible pumps wasting energy outside of peak periods? Or of insufficient pumps not being able to handle peak demand?

Grundfos SPE has got you covered!

The submersible pump system combines the superior hydraulics of the Grundfos SP pump with the efficiency of a permanent magnet motor and the flexibility of a frequency converter. Altogether, this enables you to meet demands, whether high or low, while protecting your pump.

WHAT YOU GET

Grundfos SPE is a submersible pump system consisting of a Grundfos SP pump, a permanent magnet motor, a frequency converter and a sine wave filter. The system is perfect for efficient water supply, irrigation applications, and longer life in application.



GRUNDFOS SP PUMP

Having been on the market for more than 50 years, the Grundfos SP pump has proven itself in terms of reliability and efficiency. With a superior hydraulic design, the Grundfos SP offers outstanding energy efficiency. Other benefits include the wide range of flow sizes and the 100 % stainless steel construction with material variants available.



PERMANENT MAGNET MOTOR

The permanent magnet motor is among the best on the market. Combined with the canned rotor design, the permanent magnet technology offers world-class energy efficiency and reliability. And with an increased temperature rating 140°F (60 °C) and a stainless-steel cladding protecting the magnets from corrosion, the motor has a wider application use and a longer lifetime.



CUE FREQUENCY CONVERTER

A frequency converter is required to start the pump with a permanent magnet motor. Furthermore, the frequency converter is what allows you to control pump speed in order to adjust to changing conditions and demand. We recommend using the Grundfos CUE (or RSI for solar installations), which comes with predefined settings and an installation wizard that makes setup and commissioning quick and easy. The CUE and RSI both come with built-in motor protection and a soft start feature which ensures optimal protection of your well and pump.



SINE WAVE FILTER

A sine wave filter is necessary to convert the output pulses from the frequency converter into a sine-wave-shaped current, reducing motor losses as well as motor noise.

GET THE BEST OF BOTH WORLDS WITH ADJUSTABLE SPEED

Thanks to the frequency converter's ability to adjust pump speed, you can install a pump large enough to handle maximum capacity. However, it can also run at reduced speeds (outside of peak periods) or when the well water is insufficient, both saving energy and protecting the pump. That way, you can rest assured that your SPE system is always operating according to current demand and conditions – nothing more, nothing less.



CONSERVE ENERGY

With permanent magnets in the motor, starting the pump requires less energy. In addition, by running the pump at reduced speed outside of peak periods, energy consumption is kept to a minimum. Over time, this can amount to significant energy savings.



PROTECT PUMP

The SPE system's adjustable speed can protect your pump from dry running in case of low well yield, by setting the CUE/RSI max speed to prevent over-pumping the well. Furthermore, the frequency converter provides electrical protection of the pump.



WATER QUALITY

Adjusting max speed along with the included soft start technology on a VFD can in some situations reduce the additional pull and stress on the formation where additional abrasives and/or poorer water quality may be found.



5-YEAR WARRANTY

Designed to be the best and most reliable high-efficiency pump system available, we are so confident in the quality of our SPE system that we offer a 5-year warranty. To qualify for the 5-year warranty you have to have purchased a complete SPE system containing the following products:

- Grundfos SP Pump End
- Grundfos Permanent Magnet Motor MS6000P
- Grundfos CUE Variable Frequency Drive



RELIABLE

The SPE system is made strictly from components of the highest quality, ensuring supreme reliability and longevity. The permanent magnet motor ensures that the system runs cooler, resulting in less wear and tear. Furthermore, its stainless-steel cladding protects the magnets from corrosion and the system is wet tested with the CUE drive, which also provides robust motor protection.



FLEXIBLE

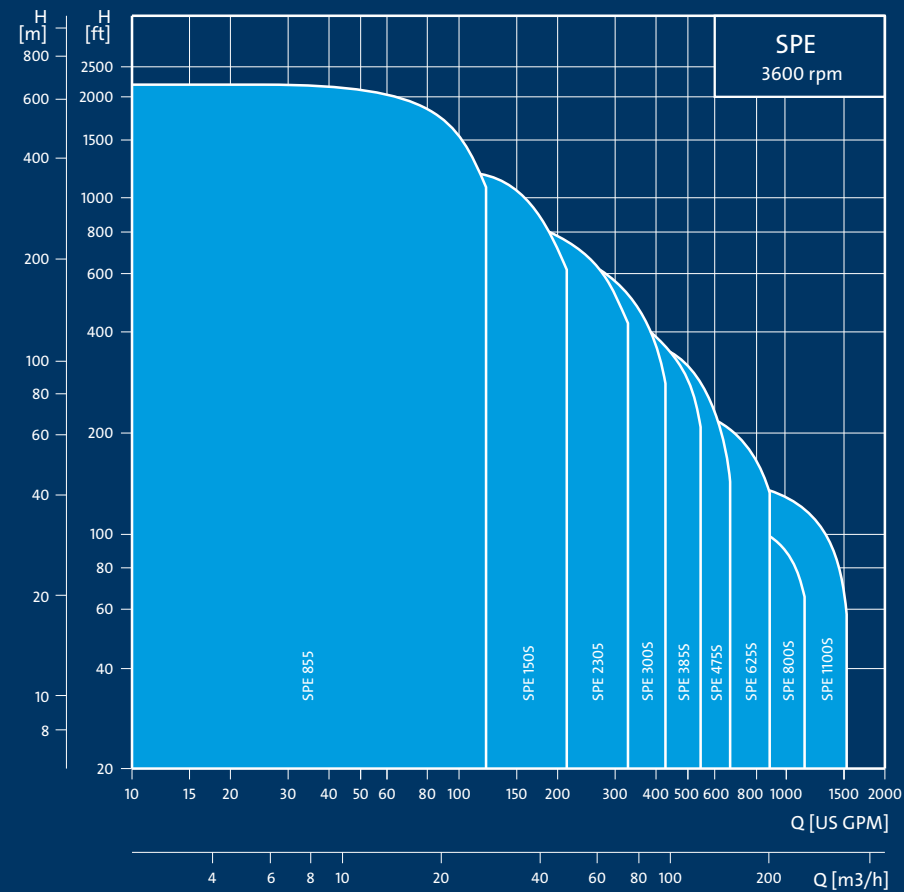
With the ability to run the pump at less than full speed when desired, you will not have to compromise on the size of your pump in order to save energy or avoid dry running. Essentially that means that the size of your submersible pump will not have to stand in the way of you meeting your water targets and peak demand.



FUTUREPROOF

As groundwater becomes an increasingly scarce resource, the ability to adjust water intake becomes essential to protecting our groundwater and your pump. The SPE system offers a level of efficiency, reliability and flexibility that allows you to basically install it and forget about it. It just works, and it helps you meet your targets, whether they have to do with securing water supply, optimising well lifetime or saving energy.

PUMP PERFORMANCE RANGE



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