



**WELL PUMPS®**

**Stainless Steel Submersible Pumps**

## 4"WPS®-CP Constant Pressure Pumping System

As a result of ongoing research and development for new innovative products, **Well Pumps S.A.** is proud to present:

### THE CONSTANT PRESSURE PUMPING SYSTEM type 4"WPS®-CP

These pumps have been developed following the same high standards of quality as other **Well Pumps** products to give:

#### SIMPLICITY

- No pressure switch is needed.
- Constant water pressure is independent of the demand.
- Simple pressure setting.
- Soft start; no water hammer.
- Single phase supply to the controller.
- Very easy to install and to use.

#### RELIABLE

- Many protection parameters (**dry running**, low line voltage, etc. ...).
- No capacitor needed.

#### QUALITY

- The WPS® pumps are made out of stainless steel throughout, with a superior wall thickness of 20 to 100% greater than that of our competitors.
- Specific **Well Pumps** reinforcements are added to certain components.
- Exceptional resistance to sand abrasion.

#### NEW

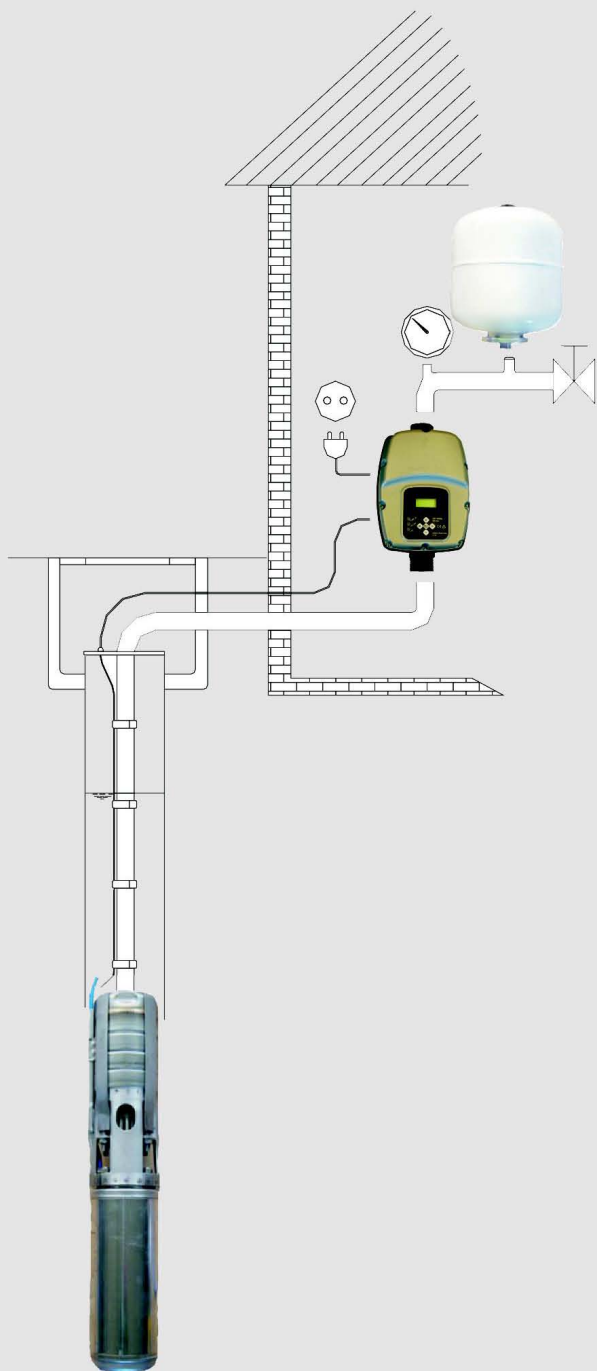
- A purpose-designed range of 4" pumps with between 2 and 9 stages.
- Special three-phase motors designed to work from 30 up to 90Hz speeds.
- Pressure sensor, electronics and communication interface all in one control panel.

#### PERFORMANCE

- Up to 160 m head and 9 m<sup>3</sup>/h flow.
- Constant Pressure digitally adjustable from 1,5 to 7 bar.

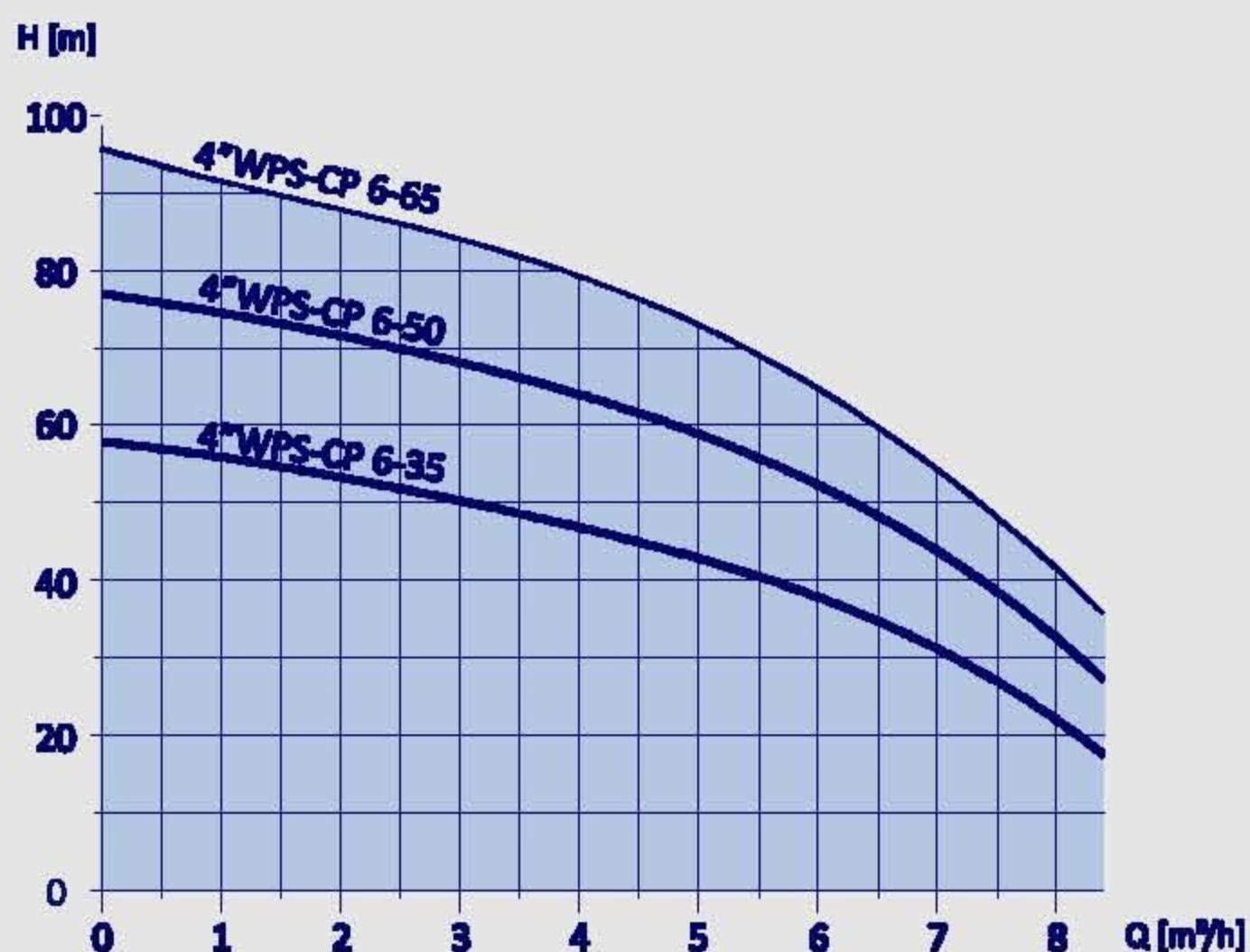
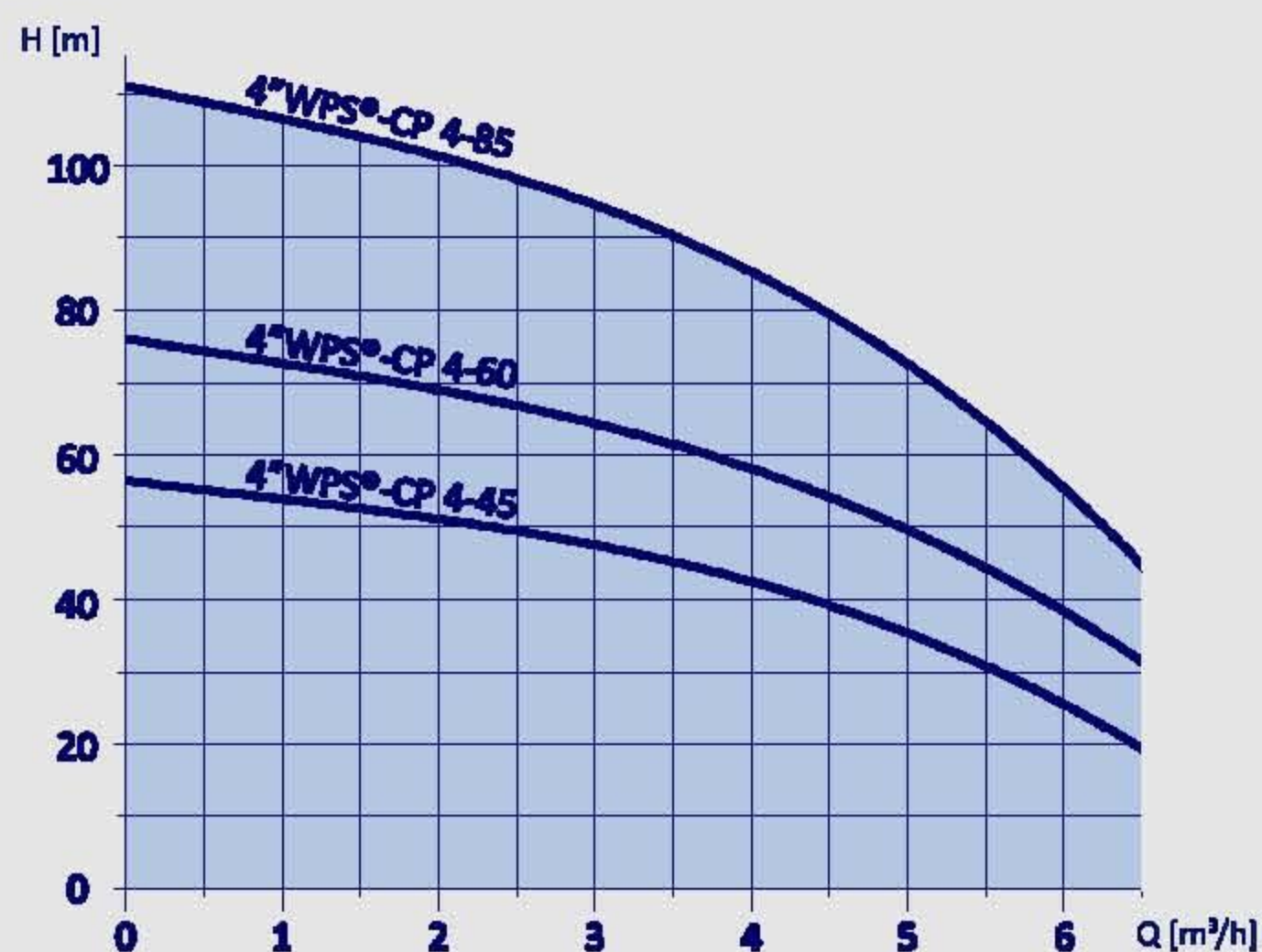
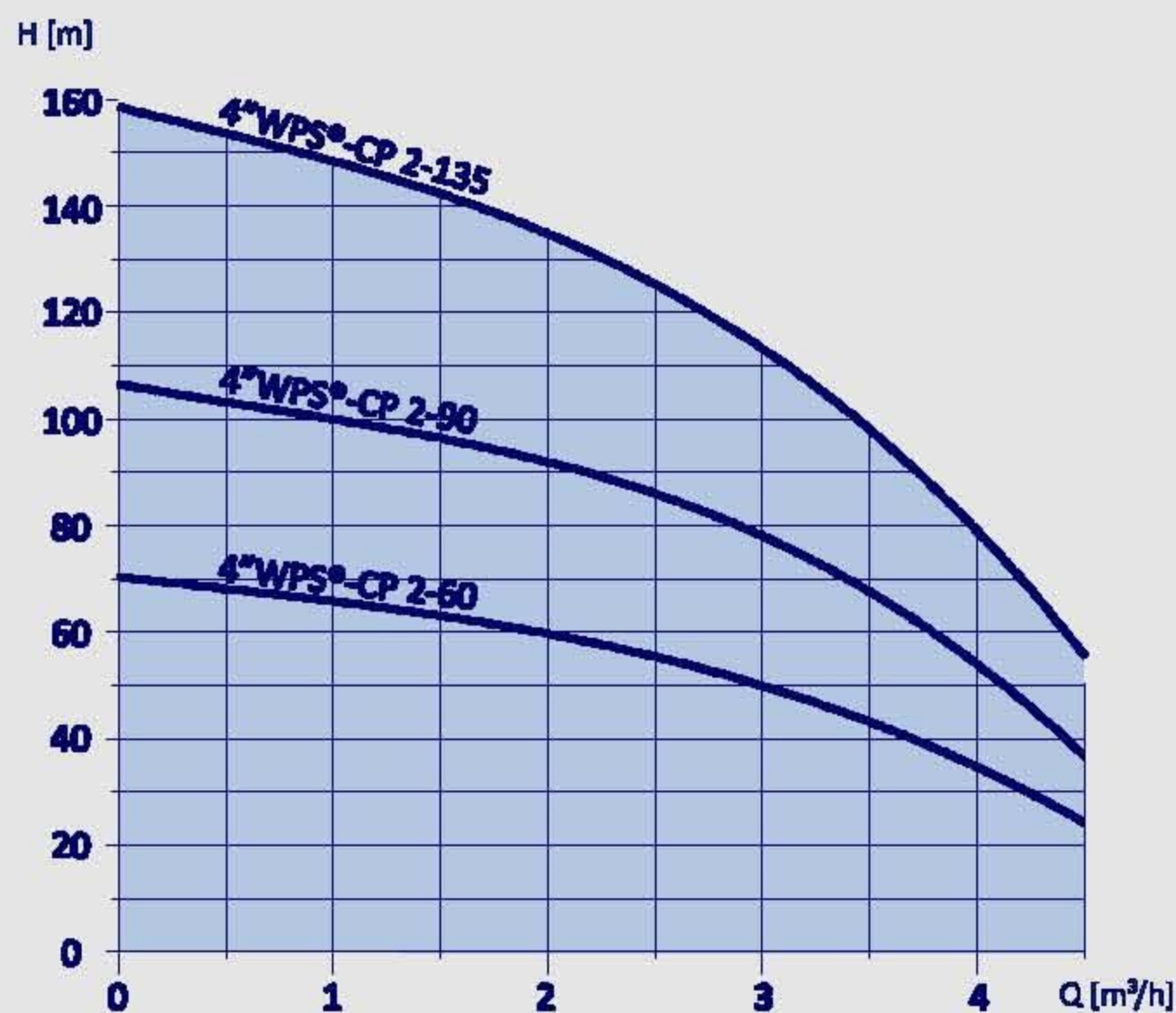
#### SAVINGS

- Reduction of electrical consumption up to 40% compared with standard installations.
- Significant cost reduction due to smaller sized power cable needed for the three phase motor.
- Smaller pump results in as much as 20% reduction in installation cost compared with a conventional system.





### Performances:



### The kit consists of:

- A 4" submersible pump WPS® entirely made of stainless steel. Well Pumps S.A. Specially developed this pump for high rotation speeds up to 5.400 RPM.
- A WPS® high speed encasulated submersible motor able to run at variable frequencies up to 90Hz .
- A WPS®-CP constant pressure controller including a variable speed drive up to 90Hz, a flow detection and a pressure sensor.
- A pressure vessel of 8 liter.

### The operating principle:

A frequency inverter constantly adapts the speed of the pump in order to ensure a constant system pressure .

The control panel is mounted on the discharge pipe from the pump and controls/protects the following features:

- Current absorption (Amperage)
- Water circulation (Flow detection)
- System pressure (4-20mA sensor)
- Dry well conditions
- Phase failure
- Short circuit
- Over- and under-voltage

### Basic data:

Type	Reference	P <sub>2</sub>	Supply	Weight	Packing
4" WPS®-CP 2-60	40200601A	1100W	1x230V	17,7 kg	85x23x44cm
4" WPS®-CP 2-90	40200901A	1500W	1x230V	20,8 kg	85x23x44cm
4" WPS®-CP 2-135	40201301A	2200W	1x230V	23,4 kg	85x23x44cm
4" WPS®-CP 4-45	40400401A	1100W	1x230V	17,3 kg	85x23x44cm
4" WPS®-CP 4-60	40400601A	1500W	1x230V	20,2 kg	85x23x44cm
4" WPS®-CP 4-85	40400801A	2200W	1x230V	22,2 kg	85x23x44cm
4" WPS®-CP 6-35	40600301A	1100W	1x230V	17,3 kg	85x23x44cm
4" WPS®-CP 6-50	40600501A	1500W	1x230V	20,2 kg	85x23x44cm
4" WPS®-CP 6-65	40600601A	2200W	1x230V	21,8 kg	85x23x44cm

Supplied By:

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