The complete Wellpoint dewatering solutions

The WEL range

Wellpoint pumps

The **WEL range** of fully automatic, rapid self-priming pumps is designed for wellpoint applications with a high flow rate. The **WEL PST** model, a high-performance unit, is suitable for heavy applications where it needs to work 24 hours per day, with a highly efficient design that guarantees fuel savings.

The **WEL ECO** is capable of drawing significant quantities of air and maintaining a wellpoint system under vacuum, or draining an excavation, thanks to the semi-open impeller, which also makes it suitable for pumping liquids with solids in suspension.

The automatic **WEL TANK** range is suitable for applications with changing ground water level and flow requirements. Being electric driven, it is very silent, energy efficient and suitable to work in residential areas.

MAX. FLOW UP TO 340 m³/h

+25% MORE EFFICIENT IN DEEP WATER

MAX. HEAD UP TO 32 m

INCREASED UTILIZATION
Simple service and long service intervals

ENGINEERED DESIGN
for severe conditions

30% FUEL SAVINGS

STACKABILITY
one by one

15% SPACE SAVING

COMPACT SIZE
with maximum flow

Wellpoint applications

The **WEL range** is the most efficient system for pumping groundwater where air is present and being able to manage large field areas. The groundwater pick level is dynamically balanced to guarantee construction operations.

1. Dewatering in construction

A wellpoint system of dewatering is regularly used when the groundwater level is close to the surface and the pump must handle a high percentage of air within the water that is drawn in from the ground material. It is the best choice for ground level reduction and it is used mostly before excavation for footings. Skyscrapers, underground railways, roads ... there are many applications.

2. Pipeline on shore – oil and gas

Pipelines used to transport crude oil or natural gas must be dewatered to guarantee the quality of the hydrocarbons, prevent the formation of hydrates and protect the pipe from internal corrosion.

3. Polluted soil remediation

During sanitation works, a number of preparatory operations are required, including pipeline dewatering and drying, and removal of the groundwater to assure the terrain.

4. Tunneling (flood control)

Groundwater is often an issue for tunneling, and dewatering is needed to allow excavation. In this case, a wellpoint system is the best choice to prevent consistent water leakage into the site. These pumps can control the groundwater level and handle both air and water.

WEL PST

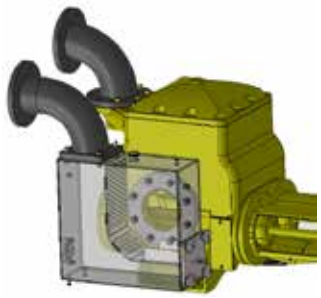
The **WEL** piston pump core is designed to perform in severe conditions, with high water flow and with air present in the wellpoint; it can be applied anywhere.

GREAT PERFORMANCE

- The automatic self-priming pump is the key to this unit. No extra vacuum assistance is needed.
- Dry running system helps avoid downtime.

GALVANISED STONE CATCHER

- Stone catcher traps solids in suspense, in case of inappropriate machine use.
- Stainless steel removable filter handling up-to 8 mm solids handling.
- Easy clean up and maintenance.
- Easy flushing with clean water.



TOTAL ACCESS FOR MAINTENANCE

- Front door enables easy access to clean up cylinders' chamber and allow for easy replacement.
- Canopy version enables total **access for the right maintenance.**

2000H SERVICE INTERVAL

EASY MAINTENANCE AND CLEAN-UP

FUEL EFFICIENCY

- Very low fuel consumption.

CONNECTED FLEET LINK SECURED

*Available as an option

120 RUNNING HOURS BEFORE REFUELING

SAVE SPACE

- Stackability is key to storing the units and saving space.
- Simple belt tensioning to guarantee correct coupling between **pump and engine.**

WATER DRAINAGE SYSTEM

- Double tank to avoid spillage.
- Easy-release valve system to flush the water after every engine start.

WEL ECO

WEL ECO is the high-performance wellpoint range. Sizes 4 to 6 are commonly used in very long pipeline wellpoint applications.

PRIME YOUR PUMP WITH A CONTINUOUS MIX OF AIR AND WATER

- Patented Air System separator, robustly designed and engineered, to manage consistent mixed water.
- A mechanical trap system aavoids moisture in the vacuum pump on every start-up.
- Release valve enables simple pipeline disassembly in all conditions.

MINIMIZE CLEANING TIME

- Simple and quick access to the wear components.

EASY MAINTENANCE
3 MIN CLEAN-UP

WORK IN THE TOUGHEST CONDITIONS

- Performance tested and verified in the toughest working conditions.
- Robustness in prime and reprime

REFUEL ONCE IN A WORKING WEEK

- Very low fuel consumption.

50 HOURS RUNNING BEFORE REFUELING

SOLIDS HANDLINGS CAPABILITY

- The whole range can handle high solids.

UP TO 76 mm SOLIDS

ONE PUMP MULTIPLE PACKAGING

- The WEL ECO pump range is based on modular designs with mobility, heavy duty skid and stack frame options available

CONNECTED FLEET LINK* SECURED

* Optional on some models

WEL tank

The **WEL tank** is an electric driven pump system, totally authomatic, used to manage wellpoint fields where the flow and the ground level of water is continously changing.

The equipment is capable to adapt the performance of flow according to the different type of ground and conditions.

The **WEL Tank** is really suitable to work in residential areas, waste water treatments and polluted soil remediations, thanks to operate in energy saving conditions.

ENERGY SAVING

- The WEL tank design is based on an automatic system to provide different type of flow according to the field test and environment.

AUTOMATIC SYSTEM

VARIABLE FLOW UP TO 274 m³/h

MAX. POWER CONSUMPTION 15 kW

CLEAN-UP THE TANK 3 min

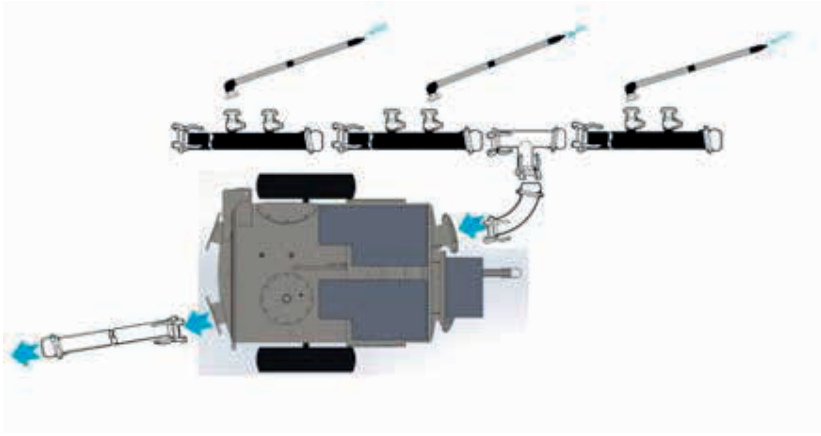
MAX. HEAD UP TO 24 m

HIGH 90% EFFICIENCY

FLEXIBLE FIELD INSTALLATION

FLEXIBLE FIELD INSTALLATION

- Thanks to the port predisposition that allow to connect all the pipeline according to the orientation of the unit.



SERVICEABILITY

- The unit, with the hinge door can be opened to guarantee cleaning or replacement pumps & wear components directly in field with any lifting devices.

CONTROL PANEL

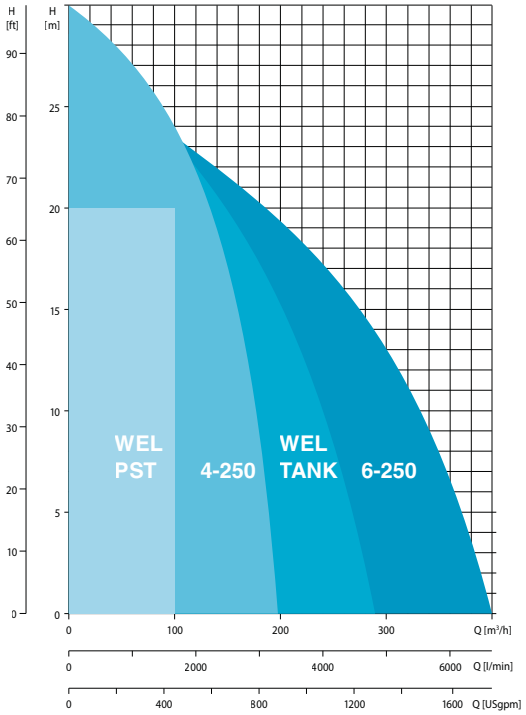
- Vanguard of our automatic dry priming allows to use the right power for Low Medium Maximum Flow.
- It act on 2 submersible and 2 vacuum pump in start up switch on switch off .

WEL

Technical data

Specifications		WEL PST 100	WEL ECO 4-250	WEL ECO 6	WEL ECO 6-250	WEL Tank
Max. head	m	20	32	26	28	24
Max.capacity	m^3/h	100	180	300	340	137+137 (274)
Nominal Air capacity	m^3/h	-	75	75	75	105+105 (210)
Suction / discharge size	in	6	4	6	6	4 or 6
Max. solids handling	mm	–	50	50	76	–
Best efficiency point	%	93	65	65	62	90
Max. absorbed power	kW	5,5	13,2	14	19	5,6 + 5.6 (11.2)
Version		Canopy	Open frame	Open frame	Open frame	Open frame
Engine						electric driven
Egine Emission	EU	Stage 5	Stage 5	Stage 5	Stage 5	-
	LRC	T3	T2-T3	-	T2-T3	-
Max. operating speed	rpm	2000	1800	1800	1800	1450 (50Hz)
Max. fuel autonomy	h	120	53	53	53	-
Weight and dimensions						
Weight	kg	1590	960	1060	1060	900
Width	mm	1100	995	995	995	1370
Length	mm	2200	1950	2115	2115	1900
Height	mm	1550	1520	1520	1520	1850

Operation area



LOOKING FOR ELECTRIC?*

E-Pump OPTIONS ALSO AVAILABLE

* Please consult with your local representative.

Wellpoint accessories

Complete wellpoint solutions available

Wellpoint spear

Filters that are installed in ground and act as water intake. Available in multiple materials options suitable for any environment.

Length	Connections		Material
0,35 mm	32 mm	1 1/4 in	PVC + PE HD/Aluminium +Stainless steel
0,65 mm			

Pipe connections / joints

Wide variety of connections and joints in different sizes for easy and quick connections.

Type	Connections		Material
Threaded	100 - 120 - 150 mm	4 - 5 - 6 in	Galvanized Steel
Flanged			

Riser pipe

Pipe connections for WellPoint spear filter allowing flexibility in reaching different depth. Available in different material with/without 90° bends

Length	Connections		Material
2 - 3 - 4 -5 - 6 mm	32 mm	1 1/4 in	PVC/Aluminium

Header pip with/without multiple cock assembly

Connected to multiple spear and riser pipes, acts as collector pipe for the complete WellPoint system. It is connected to pump via suction hoses.

Length	Connections		Material
3 - 4 - 5,8 mm	100 - 120 - 150 mm	4 - 5 - 6 in	PE-HD

Suction / discharge pipes and hoses

Available in different material, connection sizes and lengths gives excellent flexibility for you application.

Connections		Material
40 - 50 - 100 - 120 - 150 - 200 - 250 - 300 mm	4 - 5 - 6 - 8 -10 -12 in	PVC/PE HD/Galvanised Steel / Rubber

For complete accessories range, refer the accessories booklet.

Product portfolio

GENERATORS

PORTABLE
1,6–12 kVA

MOBILE
9–1250* kVA

INDUSTRIAL
10–2250* kVA

LARGE POWER
800–1450 kVA

*Multiple configurations available to produce power for any size application

DEWATERING PUMPS

ELECTRIC SUBMERSIBLE
250–16.200 l/min

SURFACE PUMPS
833–23.300 l/min

Diesel and electric options available

ENERGY STORAGE SYSTEMS

ZENERGIZE

LIGHT TOWERS

DIESEL

BATTERY

ELECTRIC

AIR COMPRESSORS AND HANDHELD TOOLS

AIR COMPRESSORS
1–116 m^3/min
7–345 bar

HANDHELD TOOLS
Pneumatic
Hydraulic
Petrol engine driven

ONLINE SOLUTIONS

SHOP ONLINE PARTS ONLINE
Spare parts for power equipment. We handle your orders 24 hours a day.

POWER CONNECT
Scan the QR code on your machine, and go to the QR Connect Portal to find all the information about your machine.

LIGHT THE POWER: YOUR SIZING TOOL
A useful calculator to help you choose the best solution for your power and light needs.

LightThe Power

FLEETLINK
Intelligent telematics is a system that helps optimize fleet usage and reduce maintenance, ultimately saving time and cutting operating costs.

CONNECTED FLEET LINK SECURED

Atlas Copco

Atlas Copco Power Technique
www.atlascopco.com/ptba