

Waterra Inertial Pumps

PowerPack PP1

Portable power actuator for mechanical pumping of Waterra Inertial Pumps

Applications

- Efficient mechanical purging and sampling of groundwater from boreholes up to 200mm in diameter

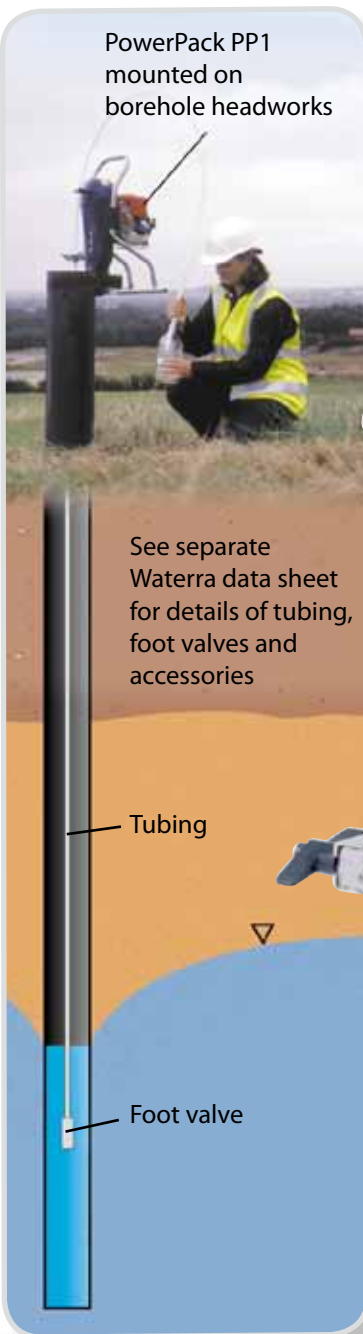
Benefits

- Simple to use
- One person operation
- Portable

Design features

- Lightweight (13kg)
- Power supply included
- Ultra-small 4-stroke engine
- Tubing clamp for Standard & High Flow Waterra inertial pump tubing

PowerPack PP1 mounted on borehole headworks



See separate Waterra data sheet for details of tubing, foot valves and accessories

Tubing

Foot valve



CE
Approved

PowerPack PP1 carried with backpack (supplied)



PR08

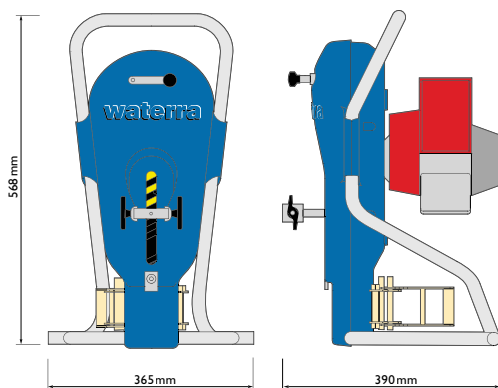
Waterra Inertial Pumps PowerPack PP1

The PowerPack PP1 is a light-weight, petrol (gasoline) powered mechanical actuator designed for use with Waterra inertial pumps.

Manually operated inertial pumps, consisting of a foot valve and tubing, are used worldwide for sampling groundwater from monitoring boreholes. They are simple to use, reliable, low cost pumps. Combine these attributes with the mechanical power of the PowerPack, and you have one of the most portable and efficient borehole sampling systems available anywhere in the world.

The addition of a single PowerPack PP1 in conjunction with dedicated inertial pumps makes for easier purging and sampling of groundwater, particularly when pumping from greater depths or for extended periods of pumping.

Technical specification



Weight	13 kg
Engine	Honda GX series, ultra small 4-stroke
Fuel	Unleaded, 0.45 litre capacity
Running time	Up to 1 hour per tank of fuel
Accessories	Back pack & harness for easy carrying

Ordering information

Order code	Description
PP1	PP1 PowerPack inertial pump actuator



The PowerPack PP1 is an ergonomically designed, compact, power actuator for use with Waterra inertial pumps.



PowerPack PP1 over flush-fitting borehole.



PowerPack PP1 back-pack frame.

Pumping performance

Inertial pump system	Tubing Ø OD/ID (mm)	Max pumping depth (m)	Pumping rate (litres/min)	
			Typical range	maximum
Standard	16/13	60	3 - 6	8
Standard X	16/10	85	0.5 - 2	2
High Flow	25/21	40	10 - 12	15
Low Flow *	13/10	60	1 - 1.5	2
Micro Flow *	10/6	60	0.2 - 0.4	0.5
Super Micro Flow *	6/4	60	0.1 - 0.3	0.4

* Separate clamp adaptor required

Further information

For further information regarding the use of the PowerPack PP1 and inertial pumps, download the following data sheets from our website:

- PR07 Waterra inertial pumps - Tubing, foot valves and accessories**
- PR09 Waterra inertial pumps - SP1 suction pump**
- PR10 Waterra inertial pumps - Uses and applications**

The PowerPack PP1 is designed and manufactured in the UK by Waterra (UK) Limited.

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