

Designed to deliver powerful performance

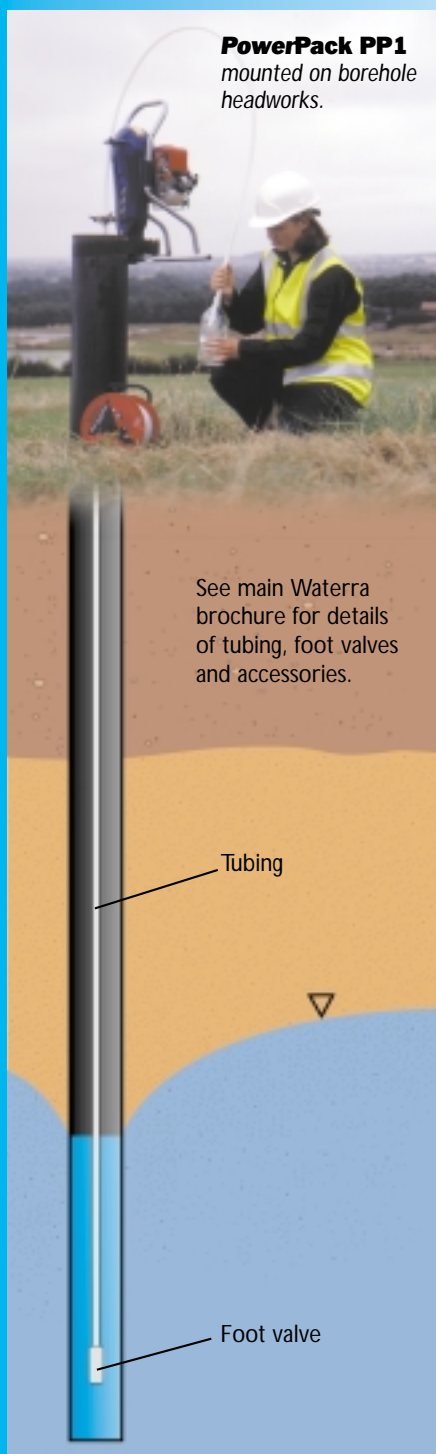
When we designed the **PowerPack PP1**, our aim was to deliver a fully portable, single operator power unit for our Waterra Inertial Pumps - and we've achieved just that. This unique system is light enough to easily comply with European one person Health & Safety lifting regulations and provides outstanding pumping performance.

# PowerPack PP1

## The power to pump in one portable package

### The **PowerPack PP1**

- Combines a power source and drive mechanism in one compact unit.
- Powered by the latest Honda GX-series of ultra-small 4-stroke engines.
- Redesigned tubing clamp provides significantly improved grip for deeper pumping.
- Weighs 13 kg - almost half the one-person Health and Safety limit.
- Includes a detachable backpack allowing one person to comfortably carry the **PowerPack PP1** across the most difficult terrain.
- Pumps from a 60 m depth using Standard Flow inertial tubing and 40 m using High Flow tubing (pumping from 85 m depth is possible using thicker-walled Standard Flow tubing).
- Spark arrestor included as standard on all engines.



### The practical solution for field operations

The **PowerPack PP1** is currently in use by Government Agencies, consultants, and many sectors of industry. Site locations include petrol stations, landfill sites, contaminated land and wetlands. Proven field applications include:

- Conventional and low-flow purging and sampling in monitoring boreholes from 10 mm to 200 mm in diameter.
- Low flow pumping from narrow diameter multi-level sampling tubes.
- Ideal for use with **Sheffield LSC** flow-through cell (available from Waterra).
- Low flow constant head and variable head hydraulic tests (permeability tests) in boreholes (use in conjunction with **Solinst Levelogger**, available from Waterra).
- Well development.

### Technical specifications

Dimensions (HxWxD) 568 x 365 x 390 mm.

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.

Pumping rates	Tubing System	ID(mm)	Max Flow Rate (l/min)
	Standard Flow	13	8.0
	High Flow	21	15.0
	Low Flow	10	1.5
	Micro Flow	6	0.5
	Super Micro Flow	4	0.4



**waterra**  
www.WaterraUK.com

Waterra (UK) Limited

Unit 4, r/o 179-189 Stratford Road, Shirley, Solihull, West Midlands B90 3AU, United Kingdom  
Telephone: 0121 733 7743 Fax: 0121 733 7746 email: sales@WaterraUK.com

Our policy is to continually review and update product design, therefore some details may differ from the actual product sold.

# Powerful portable pumping

The revolutionary **PowerPack PP1** from Waterra is light enough to be carried by one person. It's powerful enough to lift water from 60m depth and is so compact, that it fits onto a back-pack frame. The **PowerPack PP1** works with Waterra's existing range of inertial pumps and is powered by the award winning Honda GX series of ultra-small 4-stroke engines, so you can be sure it is hardworking, tough and genuinely reliable.

## The PowerPack PP1

Borehole sampling system for groundwater and leachate  
from

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