



MODEL: WPS50

CLEAR WATER PUMP

Gasoline Powered Specification

4.8HP – 3.6kW Honda Engine

550 l/min

TECHNICAL DATA SHEET

FOR USE IN NON-REGULATED TERRITORIES ASIA MIDDLE EAST AND AFRICA

TECHNICAL INFORMATION

MODEL

WPS50-M-SF

Manual Recoil Start with Steel Frame

APPLICATIONS

Residential

Domestic Water Supply: Pumping water from wells, boreholes or storage tanks into the household distribution system. Ensures water reaches taps, showers and appliances at adequate pressure.

Pressure Boosting: Used in houses where municipal supply is available, but water pressure is too low (example, multi-story buildings or areas with a weak supply). Booster pumps keep showers, washing machines and dishwashers running efficiently.

Garden & Irrigation: Pumps used for watering lawns, flower beds, or vegetable gardens. Can be connected to sprinklers, drip irrigation or garden hoses

Rainwater Harvesting Systems: Pumps transfer collected rainwater from storage tanks to toilets, washing machines or irrigation systems. Reduces reliance on municipal supply and lowers water bills.

Agricultural

Irrigation: Sprinkler systems for crops, orchards and vegetable fields. Drip irrigation setups for vineyards, greenhouses or row crops. Flood irrigation in small fields.

Water Transfer: Moving water from rivers, canals, ponds or reservoirs to tanks or fields. Fillin and emptying storage tanks or dams.

Livestock & Farm Supply: Pumping water into troughs, tanks or reservoirs for cattle, sheep, poultry or dairy operations. Supplying water to remote farm buildings.

Drainage & Flood Control: Removing excess rainwater from fields. Draining ditches, trenches or low-lying areas.

APPLICATIONS:

Residential

Agricultural

HONDA

GASOLINE ENGINE

MD

MEDIUM DUTY

TECHNICAL INFORMATION



Engine

Make	Honda
Model	GP 160
Power	4.8HP – 3.6kW / 3600 RPM
Type	Single-cylinder Four Stroke Air-cooled
Displacement	163cc / 0.163l
Fuel Type	Gasoline
Starter	Recoil Start
Consumption	280 g/kwh / 1.4 l/h
Noise	80dB at 7m
Fuel Tank Size	3.1l
Oil Tank Size	0.6l



Pump

Make	Energie
Model	WP50
Inlet and Outlet (inch)	2" 50mm / 2" 50mm
Delivery Volume	550 l/min
Max head	35m
Suction lift	8m
Driving Power	3kW
Pump Body	Aluminium Alloy
Impeller	Cast Iron
Mechanical Seal	Carbon-Ceramic
Working Speed	3600 RPM

Accessories Included

	Pipe Connector Fittings
	2 x 2 Inch Pipe Connecting Wrench
	Rubber Gaskets
	Suction Strainer
	Inlet Size: 50mm / 2"
	Material: Galvanized steel
	Hose Clamps x 3

Recommended Piping

	Inlet Hose
	Material: Rubber or Neoprene
	Type: Reinforced synthetic rubber
	Thickness: 3-6mm
	Outlet Hose
	Material: Rubber or Neoprene
	Type: Reinforced synthetic rubber
	Thickness: 3-6mm

Permissible Pumping

Allowable Liquids	Clean water, freshwater, non-corrosive liquids
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Solid Handling

Pump	5mm
Restricted by Strainer	3mm

Fuels & Lubricants (Recommended)

Gasoline	95ppm or better
Oils	15W/40

Consumables (Service parts)

Engine Air Filter	Contact Dealer Directly
Engine Oil Filter	Contact Dealer Directly
Engine Fuel Filter	Contact Dealer Directly

Dimensions & Weights

Length	530 mm
Width	425 mm
Height	465 mm
Dry & Wet Weight	24.8 kg / 28.5 kg

Policies

Warranty	1 Year Limited Warranty
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TECHNICAL INFORMATION

Carbon Ceramic Seal Recommended Pumping Application

Clean Water

Tap water, well water and rainwater.

Slightly Dirty Water

Water with minor sand or suspended solids.

Non-corrosive or Mildly Corrosive Liquids

Mild acids or alkalis within pH 6-9

Slightly hot water (up to 80°C, depending on elastomers)

Carbon Ceramic Seal Not Recommended Pumping Application

Highly Corrosive Chemicals

Strong acids (e.g. hydraulic acid or sulfuric acid)

Strong alkalis (e.g. caustic soda or lye)

Oils and Fuels

Diesel, gasoline, kerosene and lubricating oils

Abrasive Slurries

Mud, sand, cement slurry, or liquids with solids larger than 5mm

Fibrous or Stringy Liquids

Leaves, hair, ropes or plant debris

Highly Viscous Liquids

Honey, syrup or thick industrial fluids

Silicon Carbide Seal Recommended Pumping Application

Clean Water

Tap water, well water or rainwater.

Slightly Dirty Water

Minor sand or suspended solids 2-3mm

Mild to Moderately Corrosive Liquids

Stronger acids and alkalis than carbon-ceramic can handle, provide pH is roughly 4-10

Hot water

Temperatures up to 100°C, depending on elastomer compatibility.

Light Chemical Solutions

Some industrial cleaning solutions, detergents or similar low-viscosity chemicals.

Silicon Carbide Seal Not Recommended Pumping Application

Strongly Abrasive Slurries

Liquids with large solids or heavy sand concentrations.

Highly Viscous Liquids

Honey, thick oils or syrups

Fibrous Materials

Leaves, hair or plant fibres

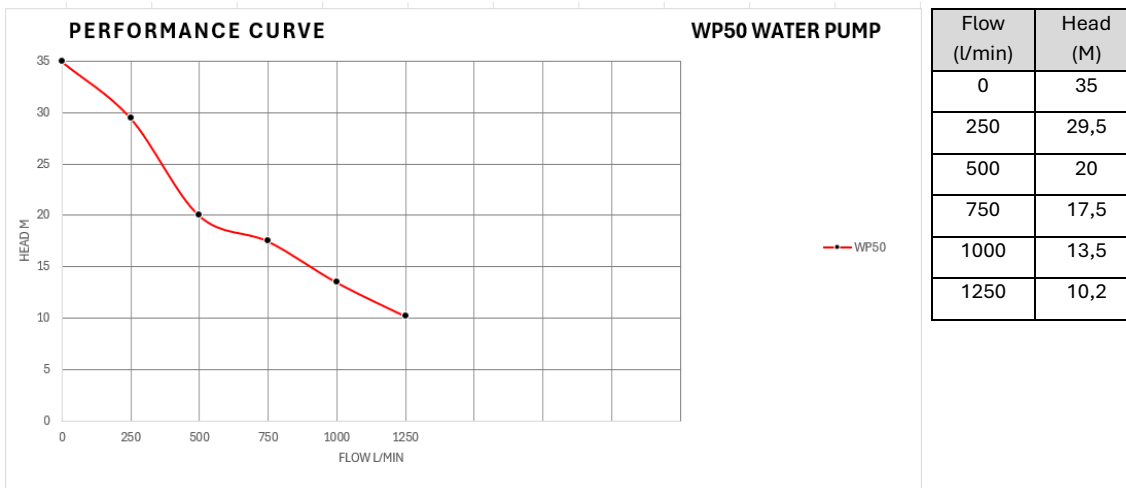
Highly Aggressive Chemical Beyond Elastomer Limits

Concentrated sulfuric acid, strong caustics above pH10 or halogens

Liquids Exceeding Temperature Limits of Pump Elastomers

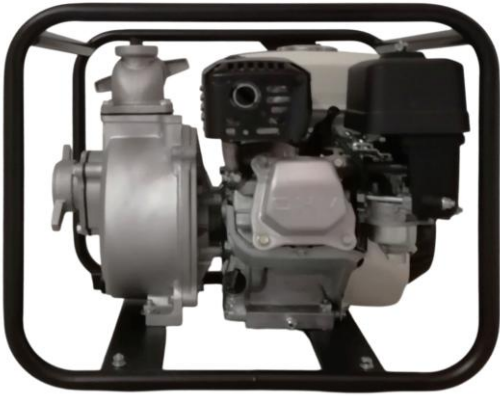
Even if the seal is SiC, the pump casing and O-rings can Fail

PUMP CURVE



PRODUCT VIEWS

SIDE VIEW



BACK VIEW



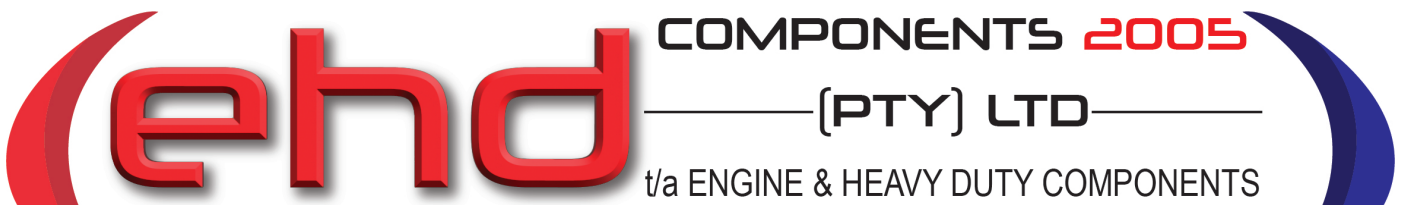
SIDE VIEW



FRONT VIEW



APPROVED DISTRIBUTOR



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