Doc Ref No. HP50-2-HONDA/REV1,
Date: January 2026

énergie power products

HHP
HONDA HIGH-PRESSURE PUMP



MODEL: HP50-2

HIGH-PRESSURE PUMP

Gasoline Powered Specification

4.8HP – 3.6kW Honda Engine
350 l/min

TECHNICAL DATA SHEET

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

TECHNICAL INFORMATION

MODEL	
HP50-2-M-SF	Manual Recoil Start with Steel Frame
HP50-2-E-SF	Electric Start with Steel Frame
APPLICATIONS	
Industrial	**General Water Supply / Pressure Boosting:** For factories or plants needing water at elevated head (cooling and processing).
	Dewatering in Mines and Construction Sites: Removing water from pits, shafts basements and tunnels.
	High-Pressure Washing and Cleaning: Cleaning of machinery, concrete surfaces, tanks and vessels using high pressure jets.
	Fire Fighting / Fire Suppression Systems: As backup or portable pumps for fire mains, hydrants or mobile fire units in industrial facilities.
	Cooling / Dust Suppression: Spraying water mist in dust-generating areas (e.g. in sawmills, crushers and foundries). Cooling surfaces or heat sinks (depending on pressure and nozzle design).
Agricultural	**Field Irrigation:** Supplying water under pressure to sprinkler systems or hose reels to cover crops. Suitable for orchards, vegetable beds and even large field perimeters if head and pipe size are sufficient.
	Pumping from Rivers / Dams to Storage Tanks: If pump has sufficient suction lift + discharge head, can draw from natural sources into tanks or elevated storage.
	Dewatering / Food Control on Farms: After heavy rains, draining waterlogged fields.
	Spraying and Washdown: Filling spray rigs (for pesticide/herbicide/fertilizer) where higher pressures help atomize. Cleaning of farm equipment, livestock facilities and milking parlours.
	Livestock Water Supply: Distributing water to troughs or watering points where gravity feed doesn't work (elevated points).

APPLICATIONS:

Industrial

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 / Electric 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	HP50-2
Inlet and Outlet (inch)	2” 50mm / 2” 50mm
Delivery Volume	350 l/m
Max head	73m
Suction lift	5m
Driving Power	4.8kW
Pump Body	Aluminium Alloy
Impeller	Aluminium Alloy
Mechanical Seal	Carbon Ceramic
Working Speed	3600 RPM

Accessories Included



Pipe Connector Fittings
2 x 2 inch Connecting Wrench
Rubber Gaskets

Recommended Piping



Inlet Hose
Material: Flexible PVC
Type: Rigid PVC spiral or steel wire spiral
Thickness: 4-6mm



Outlet Hose
Material: PVC or TPU (thermoplastic polyurethane)
Type: Polyester woven jacket
Thickness: 2-5mm

Permissible Pumping	
Allowable Liquids	Clean fresh water, slightly dirty water, treated water.

Solid Handling	
Pump	0mm
Restricted by Strainer	0mm

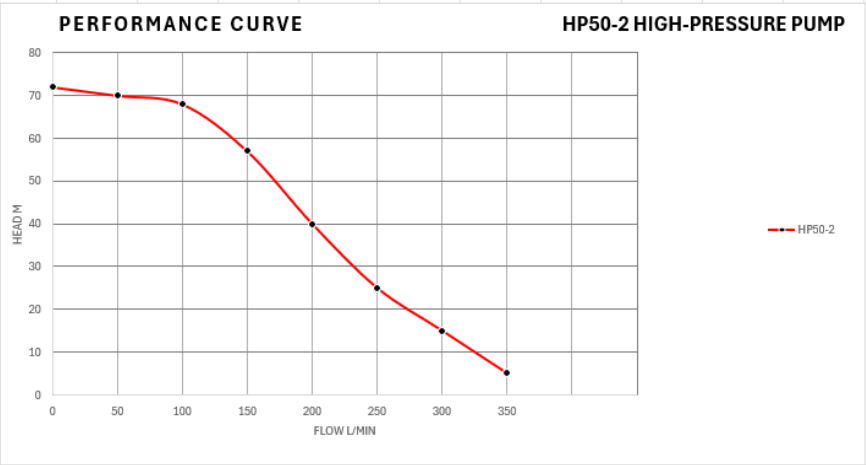
Fuels & Lubricants (Recommended)	
Gasoline	95ppm or better
Oils	15W/40
Consumables (Service parts)	
Engine Air Filter	Contact Dealer Directly
Engine Oil Filter	Contact Dealer Directly
Engine Fuel Filter	Contact Dealer Directly

Dimensions & Weights	
Length	500 mm
Width	435 mm
Height	415 mm
Dry & Wet Weight	20.3 kg / 24 kg
Policies	
Warranty	1 Year Limited Warranty

TECHNICAL INFORMATION

Carbon Ceramic Seal Recommended Pumping Application
Clean Water: Ideal for carbon-ceramic seals. Include borehole water, tap water and dam/tank water (if free from sand and solids). Used in firefighting, irrigation and industrial washdown.
Treated / Lightly Chlorinated Water: Pool water, storage tanks with mild chlorine or disinfectant. Ceramic resists mild chemicals (carbon handles low chlorine levels).
Agricultural Spray Solutions (Water-Based): Fertilizer mixes, herbicides, fungicides and pesticides that dissolved in water. Must be non-abrasive and not strongly acidic or alkaline. Common in orchards, vineyards and crop spraying rigs.
Firefighting Foam and Wetting Agents: Compatible with water-based foam concentrates at low to moderate concentration.
Light Detergents / Disinfectants: Water-based cleaning fluids for equipment washdown, barn hygiene and light industrial cleaning. Works well if chemicals are diluted and non-abrasive.
Carbon Ceramic Seal Not Recommended Pumping Application
Abrasive Liquids (Sand, Slurry, Muddy Water): Carbon face wears rapidly when exposed to grit. Causes scoring, leaks and short seal life. River water with silt, mining slurries and wastewater with solids.
Oils, Fuels, Hydrocarbons (Petrol, Diesel, Kerosene and Lubricants): Seal faces may tolerate, but elastomers swell and degrade. Risk of fire/explosion if pump isn't explosion-proof. Industrial and agricultural pumps with carbon-ceramic seals are not fuel rated.
Corrosive Chemicals (Acids, Strong Alkalis and Solvents): Acids attack carbon and elastomers. Alkalis weaken carbon and harden seals. Solvents (acetone, alcohols, MEK) swell O-rings and break down elastomers. Not suitable for chemical industry processes.
Sea Water/Saline Water: Short-term possible, but salt corrodes pump housing and shaft. Carbon-ceramic seal wears faster due to crystallized salts. Elastomers degrade due to salinity and heat.
Hot Water/Steam (>80°C): Ceramic may crack under rapid temperature change. Carbon loses strength with heat. Elastomer hardens and leaks.

PUMP CURVE



Flow (l/min)	Head (M)
0	72
50	70
100	68
150	57
200	40
250	25
300	15
350	5

PRODUCT VIEWS

SIDE VIEW



BACK VIEW



SIDE VIEW



FRONT VIEW



ASSEMBLED & DISTRIBUTED BY:	
VERTENERGY	**Vert Energy Africa (Pty) Ltd**
	28A Cnr. Avalon & Private Roads, Westlake View Ext 12, Modderfontein, Johannesburg, Gauteng, South Africa
	General Enquiries
	+27 (0)11 453 9669
	info@vertgroup.co.za
	www.vertgroup.co.za

DEALER DETAILS	