énergie
power products

HSP
HONDA SEAWATER PUMP



MODEL: CSSP50

CHEMICAL PUMP

Gasoline Powered Specification

4.8HP – 3.6kW Honda Engine
510 l/min

TECHNICAL DATA SHEET

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

TECHNICAL INFORMATION

MODEL	
CSSP50-M-SF	Manual Recoil Start with Steel Frame
APPLICATIONS	
Industrial	**Cooling Water Supply:** Used to circulate seawater for cooling generators, engines, and industrial machinery in temporary or mobile applications.
	Water Transfer: Suitable for transferring seawater or brackish water between tanks, reservoirs, processing areas, or storage systems.
	Dust Suppression: Used on construction, mining and coastal industrial sites to spray water for dust control and surface wetting.
	Washdown and Cleaning: Commonly used for cleaning equipment, factory floors, vehicles, boats and work areas using seawater.
Agricultural	**Irrigation Systems:** Used for pumping brackish or seawater to irrigate salt-tolerant crops in coastal farming areas.
	Aquaculture and Fish Farming: Circulates seawater through ponds, tanks and hatcheries to maintain healthy water conditions for marine life.
	Pond and Tank Filling: Used for filling water storage tanks, fishponds and agricultural reservoirs quickly and efficiently.
	Livestock and Equipment Washing: Supplies water for washing farming equipment, animal holding areas and coastal agricultural facilities.

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
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	CSSP50
Inlet and Outlet (inch)	2” 50mm / 2” 50mm
Delivery Volume	510 l/m
Max head	30m
Suction lift	8m
Driving Power	2.8kW
Pump Body	304 stainless steel
Impeller	304 stainless steel
Mechanical Seal	Silicon Carbide
Working Speed	3600 RPM
O-rings and Washers Material	Viton

Accessories Included

Pipe Connector Fittings

None

Suction Strainer

None

Recommended Piping



Inlet Hose

Material: Tiger flex K-Chem series

Type: PVC hose with rigid helix

Thickness: 3-6mm



Outlet Hose

Material: EPDM

Type: Reinforced synthetic rubber

Thickness: 3-6mm

Permissible Pumping	
Allowable Liquids	Sea water, Weak acids, alkalis and clean chemical solutions

Solid Handling	
Pump	3mm
Restricted by Strainer	5mm

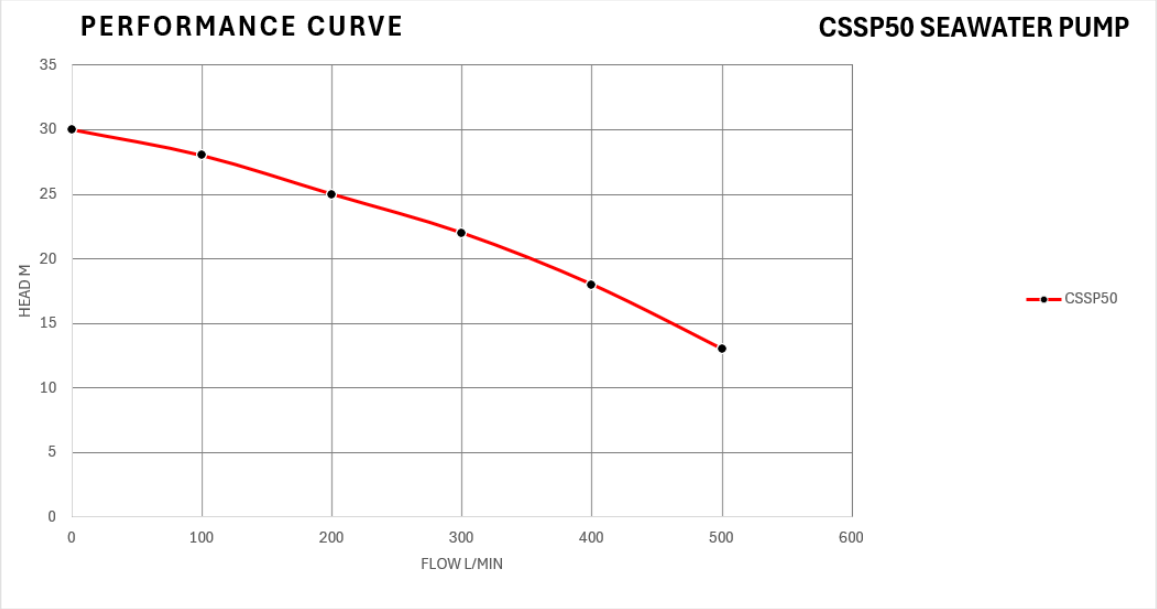
Fuels & Lubricants (Recommended)	
Gasoline	95ppm or better
Oils	15W/40
Consumables (Service parts)	
Engine Air Filter	Contact Dealer Directly
Engine Oil Filter	Contact Dealer Directly
Engine Fuel Filter	Contact Dealer Directly

Dimensions & Weights	
Length	530 mm
Width	425 mm
Height	420 mm
Dry & Wet Weight	18.3 kg / 23 kg
Policies	
Warranty	1 Year Limited Warranty

TECHNICAL INFORMATION

Silicon Carbide Recommended Pumping Application
Seawater & Saltwater Pumping Silicon carbide seals are highly resistant to corrosion and abrasion, making them ideal for seawater and brine applications.
Dirty or Sandy Water Suitable for water containing light sand, silt, or suspended particles due to the material's high wear resistance.
Chemical Transfer Can handle many corrosive chemicals, acids, and alkaline liquids depending on the seal elastomer compatibility.
High-Temperature Liquids Performs well in applications involving elevated temperatures because of excellent thermal resistance.
Industrial Cooling Systems Commonly used in cooling water circulation systems where reliability and long seal life are required.
Mining and Slurry Applications Suitable for abrasive water and light slurry applications where standard carbon seals wear quickly.
Silicon Carbide Not Recommended Pumping Application
Dry Running Conditions Not recommended where the pump may run without liquid, as overheating can quickly damage the seal faces.
Heavy Slurry or Thick Mud Not ideal for highly abrasive thick slurries, mud, or liquids with large solid particles unless specifically designed for slurry service.
Highly Crystallizing Liquids Liquids that form crystals or hard deposits can cause seal face damage and leakage.
Sticky or Fibrous Materials Poor choice for pumping liquids containing stringy, fibrous, or sticky materials that can wrap around or clog the seal area.
Severe Thermal Shock Rapid temperature changes can cause cracking in some silicon carbide seal components.

PUMP CURVE



Flow (l/min)	Head (M)
0	30
100	28
200	25
300	22
400	18
500	13

PRODUCT VIEWS

SIDE VIEW



BACK VIEW



SIDE VIEW



FRONT VIEW



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DEALER DETAILS	