

Warranty Certificate

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No Warranty On Electrical Motor / Electrical Parts / Battery Etc.

Incidental / Consequential Loss: KisanKraft Limited or its manufacturers will not be liable for general damages, including bodily injuries, or for incidental or consequential damages including, but not limited to, loss of use, loss of profits, loss of production, expense of substitute equipment or other commercial loss or damage.

Limitation of Liability: This limited warranty is in lieu of all other express warranties, obligations, or liabilities. Any implied warranties, obligations or liabilities, including, but not limited to, any implied warranty of merchantability shall be limited in duration to the applicable warranty period. Any action for breach of any warranty hereunder, including, but not limited to, any implied warranty of merchantability must be brought within the applicable warranty period.

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- ◆Chainsaws◆Brush Cutters and Accessories◆Harvesters◆
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- ◆Cultivators and Accessories◆Sprayers and Accessories◆
- ◆Transplanter and Post Hole Digger ◆Milking Machines◆

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KisanKraft Limited (formerly known as KisanKraft Machine Tools P Ltd)

: www.kisankraft.com

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KisanKraft[®]

Warranty Certificate

(DEALER COPY)

Product	Centrifugal Water Pump For Agriculture	KisanKraft Invoice Date		
Brand	KisanKraft	KisanKraft Invoice No.		
Model	☐ KK-WPDV-173 ☐ KK-WPDV-178			
WARRANTY PERIOD	6-Months	FOR THE SPECIFIED PERIOD FROM THE DATE OF SALE OR DELIVERY WHICHEVER IS EARLIER.		
Dealer's Invoice Date		Dealer's Invoice No.		
Buyer's Info (Name, Address, Phone, etc.):		Dealer's Stamp (Add	ress, Phone, TIN, etc.):	
Buyer's Sign		Dealer's Sign		

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- 1. Operation of product with incorrect fuel or lubricants, (2) Incorrect usage of machine or misuse, (3) Lack of maintenance, (4) Negligence, (5) Accident or physical damage,
- (6) Repairs made by unauthorized parties and/or with unauthorized parts, (7) Improper set up, adjustments, tampering or altered products

Note: The purchase is not contingent upon a product demonstration. The purchaser shall satisfy himself with the product, including any product demonstration or verification of any function, before buying. KisanKraft Limited or its authorized dealers, including online sellers, shall not be liable to give any on-site demonstration after purchase of any of the product

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KisanKraft Machine Tools Private Limited

Customer Care Phone: 080.2233.0318, Email: kisankraft@gmail.com



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Wide Range of Products for Every Need



For more information give MISSED CALL: 07676065555



Many of our products have BIS: ISI certification.





Centrifugal Water Pump For Agriculture KK-WPDV-173-178

User Manual





KisanKraft Limited

(Formerly known as KisanKraft Machine Tools Pvt Ltd)

Sri Huchhanna Tower, #4,1st Main,7-A Cross, Maruthi Layout, Dasarahalli, HAF Post, Hebbal, Bangalore 560024,Karnataka,INDIA

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 - ◆ Jammu ◆ Guwahati ◆ ◆ Hubli ◆ Hyderabad ◆ Jaipur ◆
 - ♦ Karnal ♦ Kolkata ♦ Lucknow ♦ Pune ♦ Raipur ♦ Shimla ♦

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Centrifugal Water Pump For Agriculture

KK-WPDV-173-178

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PRODUCT RANGE

KisanKraft has a large range of products to serve the farmers. A list of our products is given below:

Brush Cutters and Accessories

Brush Cutter/Power Weeder

Backpack Brush Cutter

Tea Pruner

Pole pruner with Engine

Reaper Attachment

Blades-Circular

Blades (2 &3 points)

Baffle

Nylon Rope

Tap & Go

Chainsaws

Petrol Chainsaw

Electric Chainsaw

Chain Sharpening Machine

Engines and Water Pumps

Engine - Diesel-(Horizontal)

Engine -Diesel(Vertical)

Engine-Kerosene

Water Pump with Petrol Engine

Water Pump with Kerosene Engine

Water Pump with Diesel Engine

Hand Tools

Secateurs

Folding Saw

Garden Rake

Garden Shovel

Hedge Shear

Lopper

Telescopic Hedge Shear

Telescopic Lopping Shear

Tree Pruner

Telescopic Steel Pipe & Fruit Picker Bag

Sheep Shear

Garden Tools

Electric Pressure Washer

Hedge Trimmer

Lawn Mower (Electric, Petrol & Manual)

Leaf Blower

Cultivators and Accessories

Petrol and Diesel

Sprayers and Accessories

Battery Sprayer

Portable Power Sprayer

Trolley Sprayer

Manual Knapsack Sprayer

Manual Pressure Sprayer

Rose Cans

Hose Crimping Machine

HTP Sprayer

HTP Delivery Hose

HTP Hose Reel

HTP Stand

HTP Gun / Lance(Brass Rod

Knapsack Power Sprayer

Mister / Duster / Granuel Spreader

HTP Sprayer Set with Diesel Engine

HTP Sprayer Set with Kerosene Engine

Fogging Machine

Milking Machine

Wood Shredder

Fodder Ensiling Chaff Cutter

Fodder Grinder Chaff Cutter

Fodder Mini Chaff Cutter

Harvester

Maize Sheller

Maize Sheller + Dehusker

Maize Combine Harvester

Onion Digger Carlotti Italy

Tea Leaf Harvester

Sugarcane Combine Harvester

Sugarcane Leaf Stripper

Transplanter and Post Hole Digger

Paddy Transplanter (2 & 8 Rows) Transplanter-Vegetable & Tobacco Post Hole Digger(4" to 14"Augers)



Centrifugal Water Pump For Aariculture KK-WPDV-173-178

Problem	Probable Cause	Trouble shooting measure	
	Suction too high, there	Check suction, lower water pump	
	is air pocket	position	
	Water amount is too big	Reduce water amount	
	Water inlet is jammed,	Check and clean water inlet pipe and	
Vilonation and Naise	resistance is too big	filter	
Vibration and Noise	Detetion and in large	Listen carefully and check source of	
	Rotation part is loose	noise, stop the machine and adjust	
	There is air inside pump	Unscrew air emission cover, and	
	or pipe	exclude air	
	Impeller is damaged	Stop running and change new impeller	

Technical Specifications

۵	Model	KK-WPDV-173	KK-WPDV-178	
und	Inlet	50 mm (2")	80 mm (3")	
water	Outlet	50 mm (2")	80 mm (3")	
Self-priming water pump	Max. capacity	28 m³/h	35	
elf-pri	Max. Head	26 m	26 m	
S	Max. Suction head	7 m	6 m	
	Model	KK-DEV-370F	KK-DEV-378F	
Engine	Rated power	3.6/3600 kW/rpm	4.0 / 3600 kW/rpm	
Eng	Displacement	247 cc	296 cc	
	Fuel tank capacity	3 L	3.5 L	
Package	Net weight	37 kg	47 kg	

Note: Technical specifications are subject to change without prior notice.



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Centrifugal Water Pump For Agriculture KK-WPDV-173-178

Problem	Probable Cause	Trouble shooting measure
	Pump speed too low	Check rotation speed and find reason
	Filter jam	Check and clean filter
	Pump can't pump water	Check pump mounting position
	Seal damage leaks air	Change mechanical seal components
	Filter, pipe and impeller jam	Clean jam place
	Rotation speed too low	Adjust the rotation speed to be higher
	Serious abrasion of the oil seal impeller	Clear up abrasion slice, or change impeller and mechanical seal
No arrayah flavo	Water inlet pipe crack	Check water inlet pipe and connector, change pipe or bolt
No enough flow	Impeller damage and leaks	Change impeller
	Lift is too high, water gets into water pump or inlet pipe, seal leaks air	Find reason and clear up. Unscrew bolt which leaks air, and exclude air. Check pipe or change seal.
	Engine speed not stable	Adjust speed
Pump consumes too much power	There is friction between impeller and pipe connector	Listen carefully to the sound, and see if the impeller has been collided and needs adjustment.
too much power	Impeller has been jammed by impurities	Check and clean impeller
No water output	Water inlet pipe connection is loose or leakage	Check water inlet pipe
	Suction too high, there is air pocket	Check suction, lower water pump position

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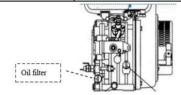


Centrifugal Water Pump For Agriculture KK-WPDV-173-178

Temperature	Oil spec.	Grade of Oil	
Above 20℃ (Summer)		SAE30	
10℃-10℃(Spring, autumn)	Above CC grade	SAE20	
Below 10 [°] C (winter)		SAE10W-30	

Clean oil filter:

Unscrew bolt and take out oil filter to clean

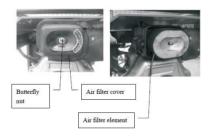


3. Change air filter element

If air filter element is too dirty, it can cause starting difficulty, lack of output power or emission deterioration. Do not run engine when the filter element is damaged or when there is no air filter, otherwise, it can faster abrasion of the engine.

Change method:

- Unscrew butterfly nut, take off air filter cover and element.
- If the element is dirty, clean it by patting it lightly or blow it by compressed air from inside to outside.
- If it is damaged and too dirty, change a new one.



Troubleshooting

Problem	Probable Cause	Trouble shooting measure	
Can't pump water	Lack of water	Fill in water again	
	Water inlet pipe entrance leakage	Check water inlet entrance and	
		connector, change pipe or tighten	
		screw	



Centrifugal Water Pump For Agriculture KK-WPDV-173-178

Before Getting Started

Thank you for your purchase and use of our products. In order to avoid accidents or injury, please read this manual carefully before using the machine. After reading, preserve it for further reference.

Our centrifugal water pump is self-priming in nature and is characterized by light weight, simple structure high efficiency, convenient use and flexible movement. It can be used for agricultural irrigation, drainage construction and pumping, especially widely used in recurrent irrigation of small area for agricultural production at present. The water pump has wide application in different areas like agriculture, industry, fire control, construction fishery and gardening.

Please note that due to the continuous improvements, the actual product may vary from the product shown in this manual.

Safety Instructions

- Read the operation manual carefully before starting the engine in order to avoid any accident and damage.
- Before starting the engine, make sure to do pre-check so as to avoid injury or damage to machine.
- Please do not use this engine inside an enclosed area. Ensure adequate ventilation while Engine is in operation.
- To prevent fire hazard, please keep the Engine in operation at least 1-meter (3 feet) away from Combustible or Inflammable materials, buildings and equipment.
- For safety's sake, do not pump inflammable or corrosive fluid, such as acid. Likewise, do not pump dusty water, sea water, chemical or alkalescent fluid, such as used oil, wine, or milk product.
- When refueling you must STOP the Engine. Please do not smoke near Engine. Wipe the spilled fuel after refueling.
 - **CAUTION**: Spilled fuel is a fire hazard.
- Always place the engine horizontally. Do NOT tilt the Engine more than 21 degrees
 Overturning or inclining the engine may cause oil spillage and result in fire hazard.
- 8. Do NOT cover the Engine when in operation.
- 9. Children are strictly not allowed near the engine operation area.
- Learn how to stop water pump immediately. It is prohibited to operate it without understanding user manual.

To Ensure Safe Operation:

- When adding fuel to water pump, make sure it is far away from inflammables. Do
 not fill too much full in the fuel tank, i.e., till the neck of the fuel tank filling place.
 Put water pump on a level ground, so as to avoid diesel from spilling.
- Use clean fuel. Before usage, filter fuel or keep it for more than 24 hours. When
 machine is running, do not add fuel into fuel tank or add oil into crankcase.

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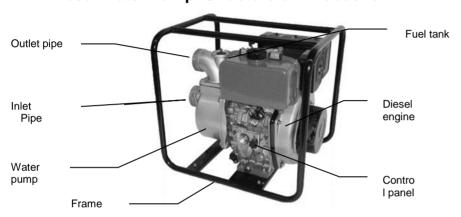
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Centrifugal Water Pump For Agriculture KK-WPDV-173-178

- There is poisonous carbon monoxide in the emission gas, therefore, make sure
 use it in well-ventilated place, so as to avoid its influence on people or livestock.
- When the machine is in operation or had just finished operation and it is still hot, please do not touch the muffler and its cover.
- During the first 20 hours of usage and maintenance for the new machine, please run it with low speed and low load, rather than high speed and full load.

Diesel Water Pump- Structure & introduction





Centrifugal Water Pump For Agriculture KK-WPDV-173-178

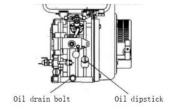
Interval time	Daily	20h	100h	200h	500h	1000h
Items						
Change oil		√ First time	√ Second time			
Clean oil filter		√	√			
Change air filter element				V		
Fuel injection nozzle check						
Fuel injection pump check					•	
Intake valve, exhaust valve distance check					•	
Intake valve seat, exhaust valve seat check						•
Change piston ring						•
Impeller gap						-

Note: Items with this mark should be done by authorized technical person only. Please contact your dealer for the same.

Method of Maintenance:

1. Change oil:

When diesel engine is still hot, take down oil-drain bolt to drain old oil, and then fill in the kind of new oil as shown below:



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Centrifugal Water Pump For Aariculture KK-WPDV-173-178

Put fuel cock back to close position



Pull slightly recoil starter handle bar until pressure is felt. When engine stops, reduce its load gradually, do not stop engine suddenly. otherwise it will cause temperature to rise abnormally.

Points to remember during operation

- 1. Theoretically, pressure and water pump suction will decrease proportionally to the increase of altitude. Decrease value can be estimated through the decrease of local atmospheric pressure (1 atmospheric pressure equals about 10 meters water column).
- Straight and short pipe can reduce unnecessary resistance loss. Pipe must be reasonably fixed so as to avoid vibration and damage to the water pump. Before operation, operator must check and see if the hoop which connects water pump and pipe is loose. Specially pay attention to water inlet pipe and see if it leaks.
- Water inlet filter and water surface, river and riverbank must be kept apart at certain distance, so as to avoid air getting into it. The distance between filter and water surface should not be less than 0.3m, so as to avoid small stone or dust to get into it. The distance between filter and river bank and river surface should not be less than 1.2m.
- When machine stops running, unscrew water drainage plug at the pump bottom, drain all water inside the pump, so as to prevent the water pump from freezing.

Maintenance

Regular maintenance can prolong the life of machine. Please maintain according to below chart.

! Warning: Please do not do maintenance work when machine is running.

Items for maintenance:

: www.kisankraft.com

Interval time Items	Daily	20h	100h	200h	500h	1000h
Bolt and nuts check	V					
Fuel and oil check	V					



Centrifugal Water Pump For Aariculture KK-WPDV-173-178



Pressure release valve

- Diesel water pump is composed of diesel engine and water pump parts. Water pump is fixed at a frame with vibration rubber cushion.
- Self-priming water pump is composed of pump body, pump cover, impeller, impeller cover, seal etc. Shaft seal adopts mechanical seal. Pump inlet is at the center of the impeller rotation. Due to the negative pressure caused by the impeller rotation, the water is sucked into pump body. Impeller rotation generates negative pressure which can cause water to get into pump body, therefore, it can have self-priming effect. Users only need to fill pump body with water first. At the inlet of the water pump, there is a one-way valve. After the machine stops operation, it can prevent water in the pump body from being siphoned into water pool, thus pump body can store enough water to be used in next time starting.
- Self-priming pump impeller cover and impeller are made of high strength cast iron. Therefore, it has wide application area

Operation

Soft pipe connects with water inlet and outlet pipe must be tight and reliable without any leakage. Water inlet pipe must not have distortion during work. Note: Soft pipe should cover all screw thread and tighten it with hoop as shown in the picture below.



2. Water inlet pipe should have a filter to avoid dust getting into water pump and stick to or damage impeller.



Centrifugal Water Pump For Agriculture KK-WPDV-173-178

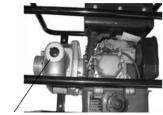
- 3. Fill water into water pump until it spills out.
- 4. Please do not operate the water pump without water.
- 5. Remove the dust present inside water pump.

Starting

Add water

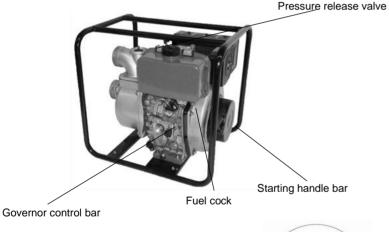
When starting water pump, add enough water inside pump body as shown in the picture.

- a. Unscrew "Water -filling plug";
- Add water until water spills out at outlet.
- c. Tighten the "Water-filling plug



Water-Filling plug

2. Start the engine



2.1 Open fuel cock.





Centrifugal Water Pump For Agriculture KK-WPDV-173-178

2.2 Adjust governor control handle bar to position of "START", and tighten it.



- 3. Press down pressure release valve, and pull recoil starter.
- a. Pull recoil starter until the resistance is felt, and then put the hand back to previous position.
- b. Put the pressure release valve to the position where has no compression.
 After the start of diesel engine, pressure release valve will restore to its previous position automatically.



c. Start: Hold recoil starter handle bar and pull it until resistance is felt and then pull the rope rapidly



d. If the engine is not started, start from action "3" and repeat it again. After start, put recoil handle bar back lightly, and do not let it spring back suddenly.

Stopping

- 1. Before the engine stops, move the engine governor handle bar to its lowest rotation speed position, and then run the engine without load for 3 minutes.
- Adjust governor handle bar to "STOP" position

