Ronix®
Premium Quality

SUBMERSIBLE SEWAGE PUMP 2 HP

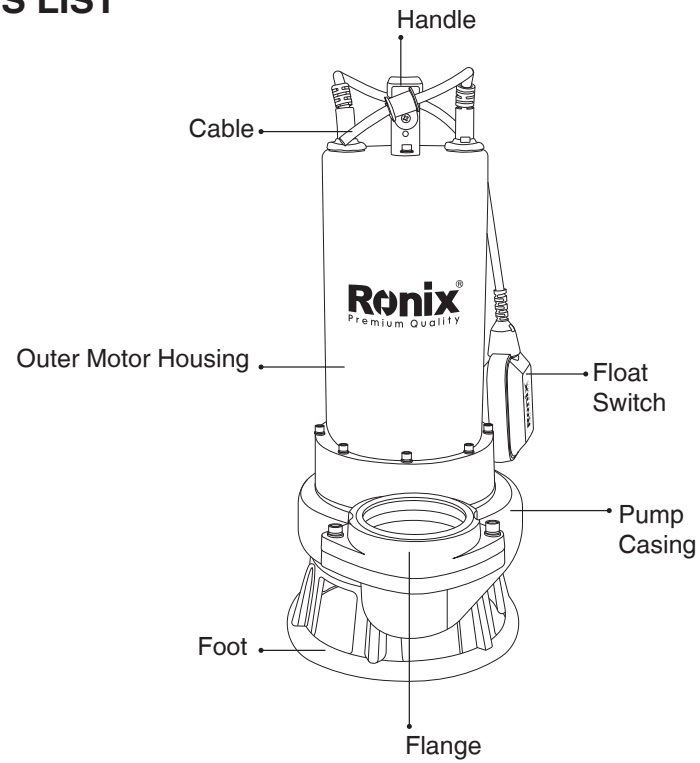
RH-4041

www.ronixtools.com

SPECIFICATIONS

Model	**RH-4041**
Power	2hp
Voltage	220-240V
Frequency	50-60Hz
Min.Flow	5m³/h
Max. Flow	36m³/h
Min.Head	2m
Max. Head	13.5m
Outlet Port Diameter	3"
Speed	2850 RPM
Max. Liquid Temperature	0-35°C
Max. Ambient Temperature	0-40°C
Working Pressure	0-1.35BAR
Solid Passage Diameter	25mm
Max Immersion Depth	5m
Max Dry running Tim	30seconds
Protection Level	IP68
Insulation Class	B
Pump Housing Material	CAST IRON
Motor Housing Material	S/S 304
Mechanical Seal Material	SIC-SIC/Ceramic-Graphite
Coil Winding Material	COPPER
Impeller Material	CAST IRON
Shaft Material	316+45
Weight	26.4Kg

PARTS LIST



SAFETY PRECAUTIONS

This symbol ⚠ ⚠ together with one of the following words “Danger” or “Warning” indicates the risk level deriving from failure to observe the prescribed safety precautions:

⚠ DANGER RISK ELECTRIC SHOCK

Warns that failure to observe the precautions involves a risk of electric shock.

⚠ DANGER

Warns that failure to observe the precautions involves a risk of damage to persons and/or things.

⚠ WARNING

Warns that failure to observe the precautions involves the risk of damaging the pump and/or the plant.

▪GENERAL INFORMATION

The purpose of these instructions is to ensure correct installation of the pump, thus ensuring the best possible hydraulic and electrical performance of the unit.DRAIN series have been designed for the drainage of infiltration water, empty water tanks or swimming pools. DRAINEX series are used for the drainage of sewage water with particles in suspension, septic tanks, etc. the maximum water temperature is 35°C. Passage of particles up to 35mm.

All pumps have been manufactured in top quality material, submitted to strict hydraulic and electric controls.

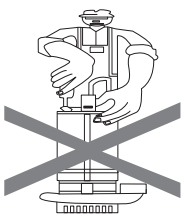
For correct installation, follow the directions in the given electrical schematic chart and the operating and maintenance instructions. Failure to do this could result in motor over loading and other material of bodily damage for which we decline all responsibility.

Connect the plug of the control box to the supply, if there is a suitable water level the motor will start immediately. If the motor turns but no water is drawn, consult the “Possible faults, causes and solutions” list at the end of this manual.

For their phase pumps, check if the direction of rotation corresponds to that of the arrow located at the suction filter.

THE PUMP SHOULD NEVER BE OPERATED DRY.

NEVER MODIFY THE FLOAT SWITCH POSITION, WHICH IS ADJUSTED BY THE MANUFACTURER.



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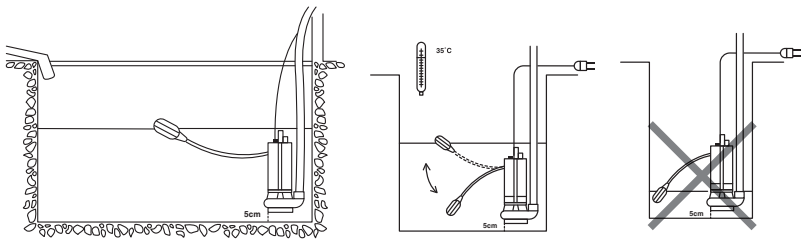
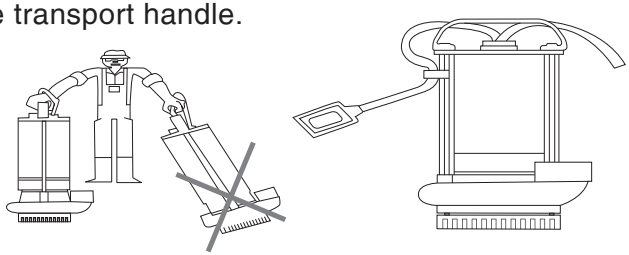
INSTALLATION

⚠ The pump must always be totally submerged which will provide it with the necessary cooling. If there is a lot of dirt at the bottom of the water tank, and you are using a DRAIN pump, it is important to install the pump at least 5 cm. away from the bottom to avoid dirt blocking the wet end.

Ensure there is enough space for the free operation of the float switch



Never suspend the pump by its electric cord, if it is necessary that pump does not touch to the bottom, suspend it by a plastic cable fixed to the transport handle.



■ ASSEMBLY OF DISCHARGE PIPE

If the pipework needs to be long with numerous bends, it is recommended to install a pipe with a larger diameter than the discharge outlet to reduce the friction loss as much as possible.

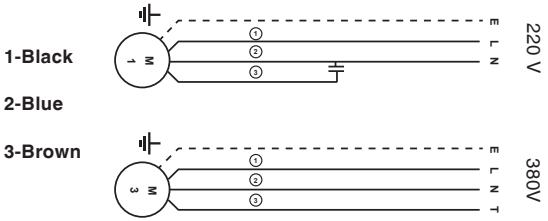
Install a check valve to the outlet of the pump and you will prevent pipe from emptying each time pump stops.

Avoid twisted or curved routing of the pipework and ensure correct connection at outlet. In both cases flow at outlet will be reduced if the connection is wrong.

▪ ELECTRIC CONNECTION

The pump installation should incorporate the following: Switch with multiple contact separation, minimum 3 mm. Residual current circuit breaker 30 mA (RCCB).Pumps assembled with a starting control box are supplied ready for operation.On three phase pumps, protection should be provided by the use.

STARTING



⚠ Ensure that the voltage and frequency are the same as those shown on the motor specification plate.

MAINTENANCE

⚠ Our DRAIN and DRAINEX pumps require no specific maintenance but we suggest the following:

In colder seasons, when temperatures fall below 0, to empty the discharge pipe.

If the pump is not to be used for an extended period of time, it should be taken out from the installation and stored in a dry and well-ventilated place.

⚠ **ATTENTION**:

The replacement of the electrical supply cable requires the use of special tools, which can only be carried out by the manufacturer and/ or our Official Service Engineer.

Possible faults, causes and solutions

1- Pump does not start.
2- Pump runs but there is no flow.
3- Pump Stops automatically.
4- Pump does not deliver rated capacity

CAUSES	SOLUTIONS	1	2	3	4
Lack of Electricity	Replace Fuses or Switch RCCB (30 mA)	x			
Improper Thermal Protection	Switch Thermal Protector or Check that Voltage is Correct	x		x	
Float Switch Disconnected	Wait for Water Level to be Back to Adequate Level	x			
Wet end Blocked	Call Service Engineer	x		x	
Blocked Float Switch	Check the Free Operation of the Float Switch	x			
Disconnected Discharge Pipe	Connect it and Fix the Discharge Pipe Correctly		x		
Air Trapped at The Pump Body	Move the Pump Laterally to Empty the Air		x		
Check Valve Assembled Wall/ round	Assemble the Valve Correctly		x		
Pump Partially Covered of Water	Submerge the Pump or Wait to Have the Suitable Level		x		
Inlet filter obstructed	Clean the Suction Filter		x		x
Total manometric head higher than expected	Check the Geometric Head and Loss of Head				x
Impeller Worn	Contact a Service EngiNeer				x
Deteriorated discharge pipe	Replace it by a new One				x

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