

Electric pump controller

ECDW-S

Printing Circuit
Board

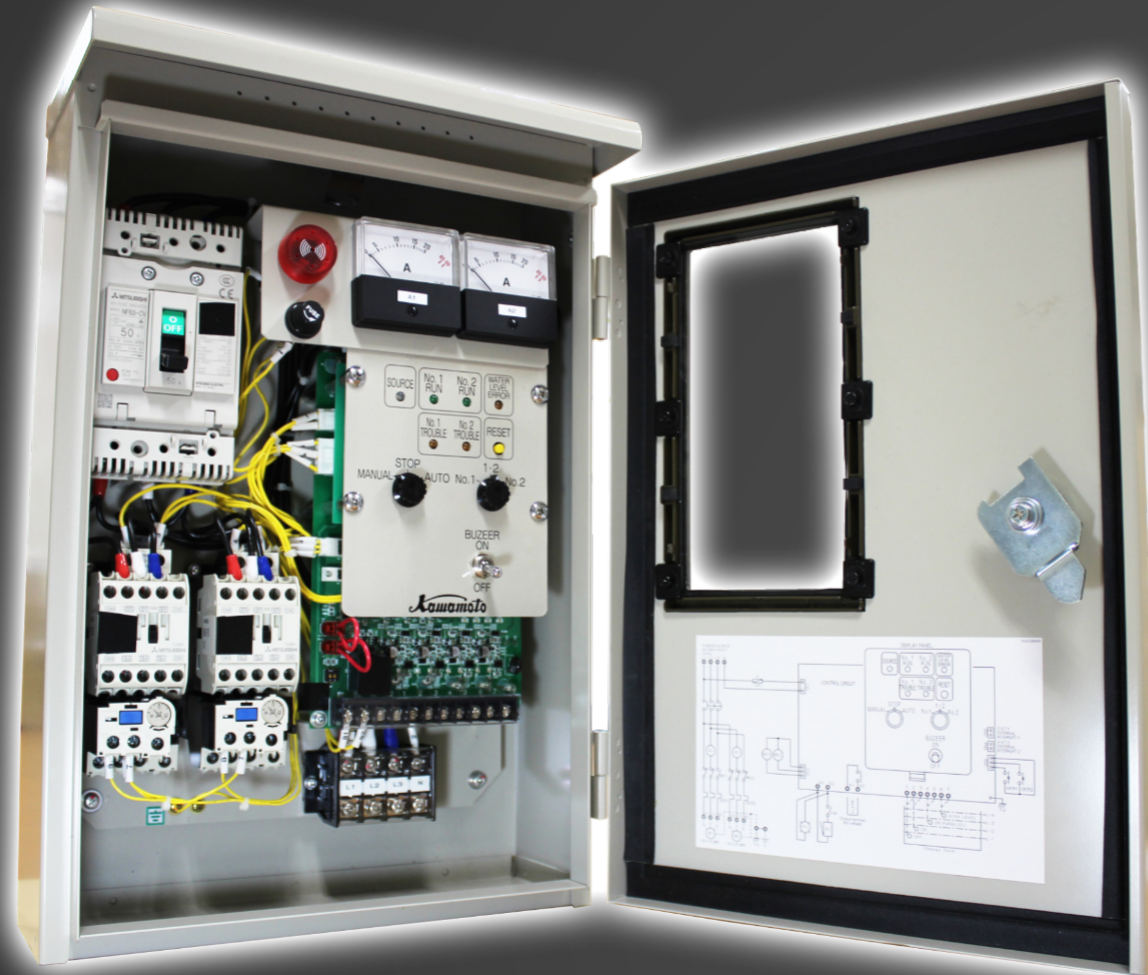
Compact &
secure design

Rotary beacom
light ready

Galvanized steel
body



General introduction



Pump controller

Designed by Pump manufacturer fully knowing about pump

Made in Thailand.

Specification

Operation	Automatic Alternate/Parallel operation
Rated Voltage	Three phase 4 wires AC220 or 380V
Rated frequency	50Hz/60Hz
Rated voltage fluctuation	85% ~110% of rated voltage
Ambient temperature	-5 ~ 45 C° (provided, no freezing)
Ambient humidity	95%RH or less (provided, no dew drip)
Protection function	Molded case circuit breaker: Circuit Fuse: Control signal protection 250V 3A

Material

Part	Material	Thickness	Powder coating
Body	Cold rolled steel	1.6t	Outer: 60µm, Inner: 45µm
Inner plate	Hot-rolling steel plate	2.3t	Surface coat

Model List

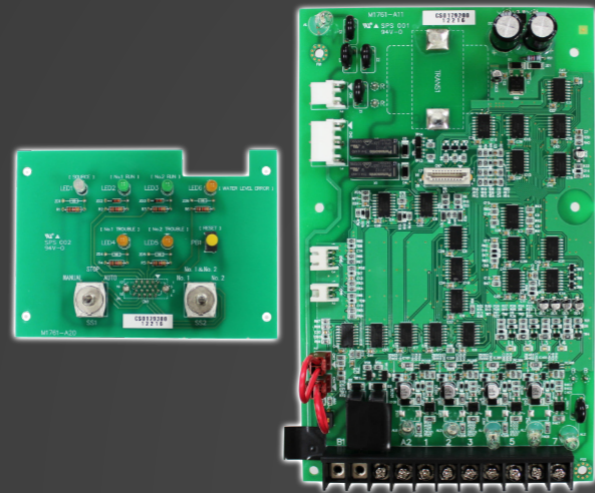
Model name	Output (kW)	Voltage		TB1: Power source terminal board		TB2: Control & Alarm terminal board	
		220V	380V	Size	Max. Cable size	Size	Max. Cable size
ECDW-P0.25T4-S	0.25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	M4	5.5 mm ²	M3.5	2.5 mm ²
ECDW-P0.4T4-S	0.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	M4	5.5 mm ²	M3.5	2.5 mm ²
ECDW-P0.75T4-S	0.75	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	M4	5.5 mm ²	M3.5	2.5 mm ²
ECDW-P1.5T4-S	1.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	M4	5.5 mm ²	M3.5	2.5 mm ²
ECDW-P2.2T4-S	2.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	M4	5.5 mm ²	M3.5	2.5 mm ²
ECDW-P3.7T4-S	3.7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	M4	5.5 mm ²	M3.5	2.5 mm ²
ECDW-P5.5T4-S	5.5		<input checked="" type="checkbox"/>	M5	8 mm ²	M3.5	2.5 mm ²
ECDW-P7.5T4-S	7.5		<input checked="" type="checkbox"/>	M5	8 mm ²	M3.5	2.5 mm ²

Features

Printed Board Structure

The highly integrated printed circuit board eliminates the need for complex relay circuits.

In the event of a failure, only the board needs to be replaced, so it does not take time to identify the location of the failure.



Rotary Beacon Light



Integrated power supply and circuit on the Printing board makes Rotary Beacon Light is included as standard accessory.

Powder coated steel body

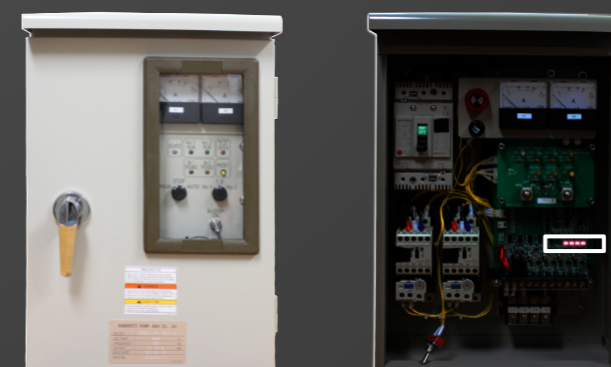
Powder coat enhances durability against rust.

It can work for long time outdoor installation.



Rich information & Security

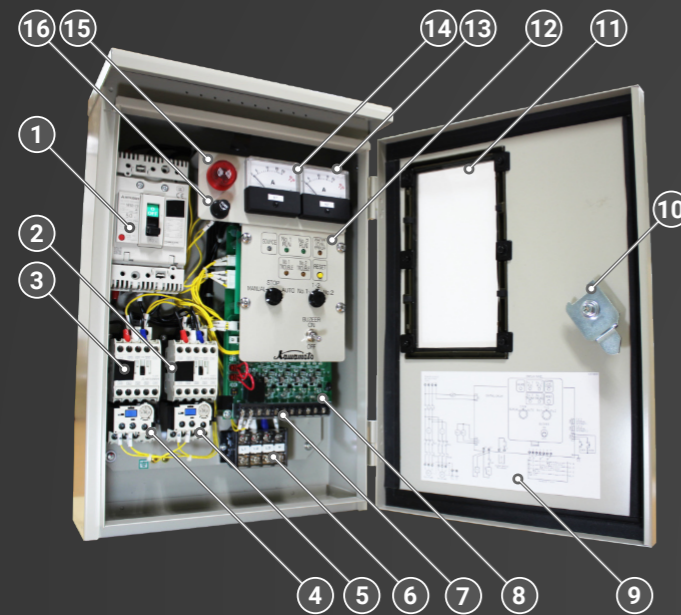
The manipulation part is enclosed inside a locked door, so it cannot be tampered with. The status can be checked from the outside through the ammeter, operation lamp, fault lamp, and inspection window.



A water level lamp is also provided inside for simple confirmation of the water level.

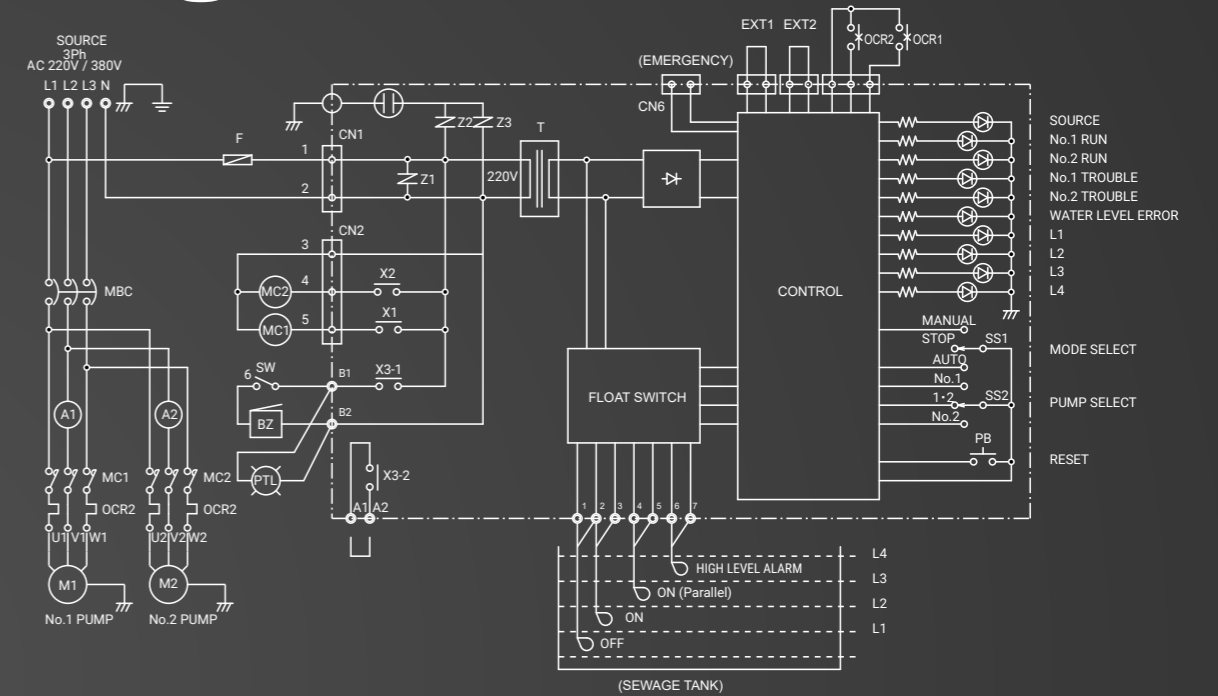
Technical data

Structure

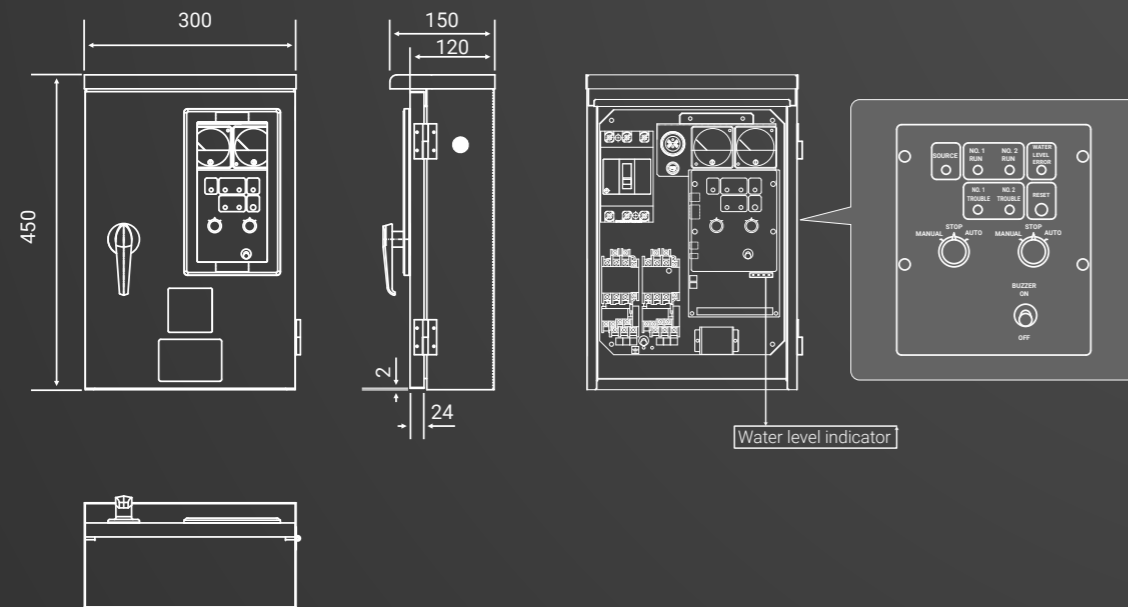


Ref	Name
1	MCCB (ELB is also available)
2	Magnetic switch (No.1)
3	Magnetic switch (No.2)
4	Thermal relay (No.1)
5	Thermal relay (No.2)
6	Terminal board
7	Printing circuit board
8	Control & Alarm terminal board
9	Wiring diagram
10	Handle with key
11	Inspection window
12	Manipulation panel
13	Ann-meter (No.1)
14	Ann-meter (No.2)
15	Buzzer
16	Fuse

Wiring



Dimension



Combination

Cutter pump: AU4



Float switch: EHF



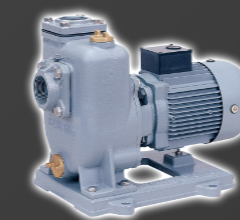
Sewage relay tank: TAZ



Resin pump: WUO



Self-priming pump: GSO





Bringing valuable "water" to you



Important Safety Precautions

Always read the manual thoroughly and fully comprehend the contents for safe operation before starting use. Precautions for using products safely and for preventing personal injuries or physical damage are given in the manual. *We bear no responsibility when the above listed precautions are not observed.

- Securely earth the equipment, and install a dedicated earth leakage breaker. Failure to observe this could result in electric shock, earth leakage, or fire.
 - When carrying out maintenance or repair, always turn OFF the power, and ensure that power is not being supplied. Failure to observe this could result in electric shock or injury.
 - Always use this within the specified product specifications. Failure to observe this could result in electric shocks, fires or water leakage, etc.
 - If unloading or carrying in the product, or if suspending it for installation, do so correctly by first checking the product weight and suspension method in the catalog, installation drawing, and installation manual. Furthermore, do not suspend products heavier than the rated load for the suspension equipment. Failure to suspend properly could result in injury if the product falls.
 - Carry out installation properly in accordance with the instruction manual. Install the pump unit horizontally on the foundation, and secure it firmly with the foundation bolts. Incorrect installation could cause electrical shocks, fires, and water leakage, or injury caused by falls or topples. In addition, pump vibration may also be caused.
 - Open the wood packing with caution to the box nail. Failure to observe this could result in injury.
 - Carry out installation in accordance with applicable legal requirements (electrical equipment guideline, interior wiring regulations, building codes, water supply law, etc.)
 - Failure to observe this may not only violate legal requirements, but could also result in fire or electric shock, or injury caused by falls or topples.
 - Do not burn the resin and rubber parts at the site. Burning resin and rubber could result in emission of hazardous gases. Check with the local municipality for information on disposal.
 - Observe the service life of the pump, install it in a well ventilated place free from corrosive or explosive gases, salt, moisture, water vapor, condensation etc., and avoid exposing it to wind, rain and direct sunlight. When the product is installed in an improper environment, short circuit, electric shock, or fire may be caused due to faulty insulation of the motor or control panel (electric parts box).
 - Keep the product away from fire such as a lit candle, lit cigarette, flames, or sparks. Otherwise, fire may be caused.
 - Do not use the pump in an explosive environment. Otherwise, fire may be caused.
 - Electrical work must be performed by a qualified engineer by following applicable code/law in the installation country. Incorrect wiring could result in electric shocks or fires.
 - Always earth the pump before turning the power on. Operations without secure grounding could result in malfunction, short circuit, electric shock, and fire. Do not connect the grounding wire to gas pipes, water pipes, lightning rods or telephone earthing wires. Failure to earth the equipment correctly could result in electric shocks.
 - Install a earth leakage breaker dedicated for this product at the power source side. Failure to observe this could result in electric shock, electric leakage, or fire.
 - Avoid connecting multiple electric device to one outlet (octopus outlet) and construct wiring by using the exclusive wiring. Failure to observe this could result in electric shock, electric leakage, or fire.
 - Secure reattach the terminal covers removed for the wiring work as back again. Failure to observe this could result in electric shock.
 - Remove dust from the power plug, wire connecting part, junctions, and terminals.
- Accumulated dust may be heated up and causes fire.
 - Before turning on the power, check that the wire connecting section and junctions are not loose or unconnected. Any loose or disconnected wires could result in fire or electric shock.
 - Always turn OFF the power and ensure that no power is being supplied to the pump when attaching or disconnecting wiring. Failure to observe this could result in electric shock.
 - After the power is turned on or while the power is on, do not touch the charging part of the control panel (electric parts box), motor terminals, and cable ends. Failure to observe this could result in electric shock,
 - electric leakage, or fire.
 - Do not operate the operation switches, etc., with wet hands, after turning the power ON. Failure to observe this could result in electric shock.
 - Do not splash water on the motor and the control panel. Failure to observe this could result in electric shock, electric leakage, fault, or fire.
 - If the product stops working or if any abnormality is sensed (i.e., broken cable or burning smell), stop operation immediately and shut down the power. Then contact the place of purchase or the distributors for inspection or repairs. Continuing operation in an abnormal state or inadequate repair could result in fires from electric shocks, electrical leakage or short-circuiting.
 - The Pump should never be disassembled, repaired, or modified, or the power cable should never be replaced by anyone other than a qualified repair technician. Improper disassemble, repairs or modify could result in electric shocks, fires, faults or break.
 - When carrying out maintenance or repair, always turn OFF the power and then, carry out maintenance. Failure to observe this could result in electric shock.
 - Always consult with Kawamoto Pump or the sales outlet where the pump was purchased before moving and re-installing the pump. Incorrect installation could cause electrical shocks, fires, and water leakage.
 - When repairing the product, use our genuine parts. If any part other than the genuine parts is used, breakage or accidents may be caused. In addition, the product could not be used with its optimal condition.
 - Do not touch the operation switches, etc., with wet hands, after turning the power ON. Failure to observe this could result in electric shock.
 - If the product stops working or if any abnormality is sensed (i.e., broken cable or burning smell), stop operation immediately and shut down the power. Then contact the place of purchase or the distributors for inspection or repairs. Continuing operation in an abnormal state or inadequate repair could result in fires from electric shocks, electrical leakage or short-circuiting.
 - When carrying out maintenance or repair, always turn OFF the power and then, carry out maintenance. Failure to observe this could result in electric shock.
 - The Pump should never be disassembled, repaired, or modified, or the power cable should never be replaced by anyone other than a qualified repair technician. Improper disassemble, repairs or modify could result in electric shocks, fires, faults or break.

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For any question about pumps, please contact your nearest distributor

Name	ECDW-S
No.	ECDW-S_EN_20220207_AFPU_HM