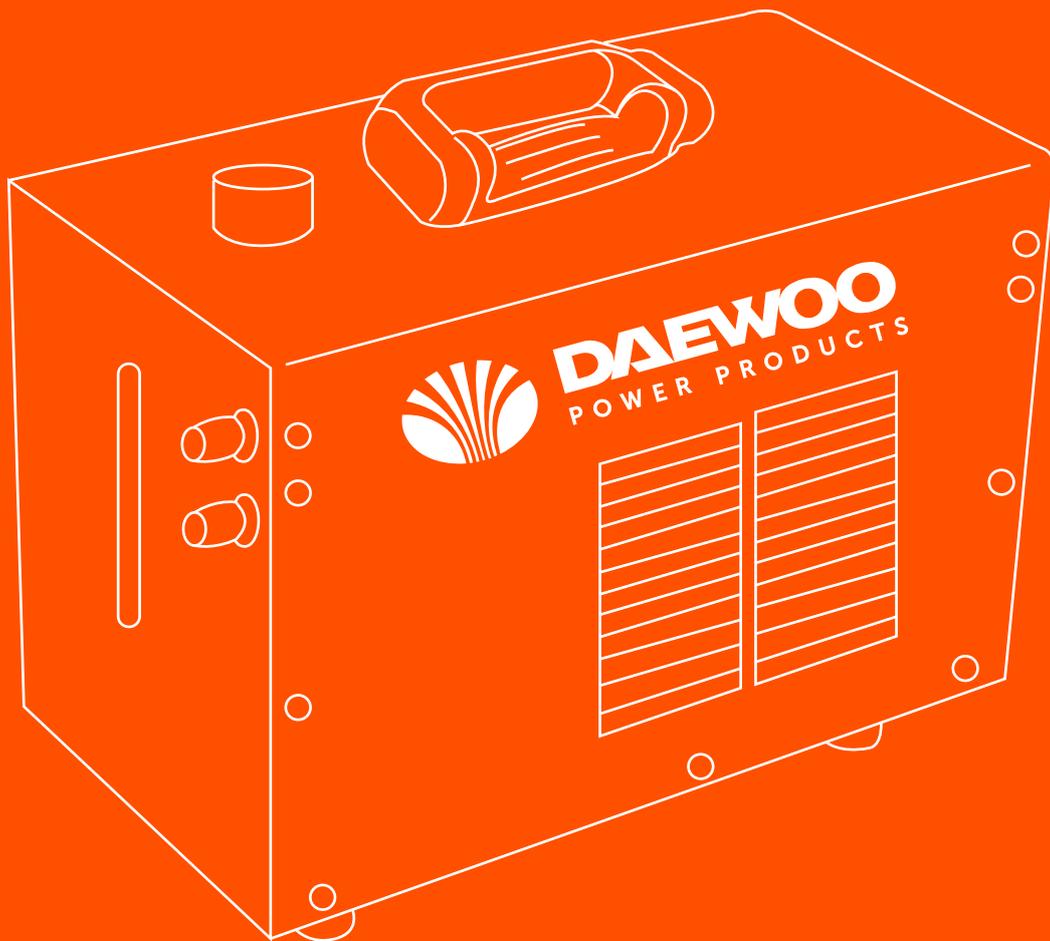




**DAEWOO**  
POWER PRODUCTS

**DAWS-10L**  
Water cooler



**USER'S MANUAL**

[www.daewoopowerproducts.com](http://www.daewoopowerproducts.com)

Manufactured under license of Daewoo International Corporation, Korea

# INDEX

<b>1. GENERAL SAFETY PRECAUTIONS</b> .....	3
<b>2. DESCRIPTION</b> .....	3
<b>3. PRECAUTIONS</b> .....	3
<b>4. INSTALLATION</b> .....	4
<b>5. MAINTENANCE</b> .....	4
<b>6. EXPLODED VIEW</b> .....	6
<b>WARRANTY</b> .....	10

**IMPORTANT: BEFORE STARTING THE EQUIPMENT, READ THE CONTENTS OF THIS MANUAL, WHICH MUST BE STORED IN A PLACE FAMILIAR TO ALL USERS FOR THE ENTIRE OPERATIVE LIFE-SPAN OF THE MACHINE.**

## 1. GENERAL SAFETY PRECAUTIONS



### ELECTRIC SHOCK

- Electric shocks are hazardous and potentially may be fatal.
- Install and earth the welding machine according to the applicable regulations.
- Do not touch live electrical parts.
- Never operate the machine with the covers removed.
- Maintain the machine in a good, safe operating condition.



### MOVING PARTS

- Moving parts can cause injury or catch loose clothing.
- Always ensure panels and covers are fitted before operation or maintenance.

## 2. DESCRIPTION

This equipment is ideal for cooling torches and welding applications by means of water recirculation via a closed system. The system comprises the following main parts:

- Single phase motor
- Brass pump for long life
- Coolant tank
- Radiator
- Mains switch

Some of the key features of the unit are:

- Corrosion free
- No priming required
- Quick fill and drain.
- Low and easy maintenance

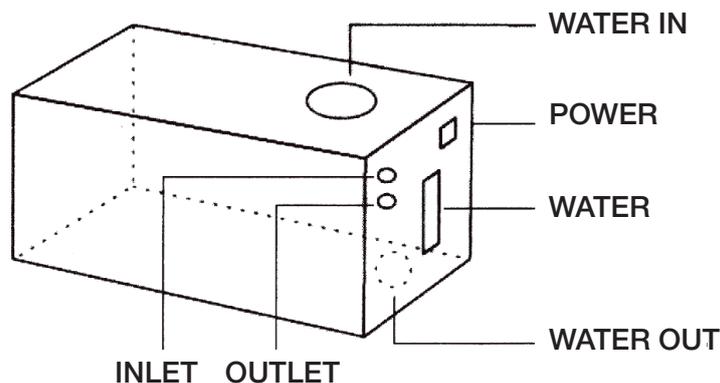
## 3. PRECAUTIONS

1. For long time not using the cooler, Re-start the motor and make sure the water is pumped out to prevent water cooling torch damaged.
2. Make sure the tank is filled with enough clean water and all the connectors is fixed firmly. Always sure the water tank is kept enough water over the safety line. Pump may be damaged while the tank is without water.
3. Make sure the input voltage is correct. See the technical data. Or motor may be burn out!
4. If the motor works well (there is windy from the radiator), but the water draining is small or no water, please pump in pressure air from compressor to inlet or outlet for 20seconds.
5. When the motor can't work:
  - a. The input voltage is too low, please change the electric supply.
  - b. When the starting capacitor is burn out, please change a new one.
  - c. The pump can't work if the motor stop long time. Please pump air into the INPUT  or OUTPUT  for 20sec. Make the pump work again.

- d. The motor has to be replaced if it is burnt out.
6. When this equipment incline too much, the water in tank may overflow, the motor pump becomes a short lifetime. Precautions against toppling-over, if the system shall be placed on a tilted plane.
7. This equipment is used for cooling the torch of welder, so that the torch doesn't burn-up for the over high temperature. The cooling fluid must be pure water or distilled water to avoid the torch or cuprum walls up and burn-up the torch. Please add water upper warn line, when the water under the warn line 3CM. If the water in tank has been used for a long time and very dirty, please open the cover under the bottom of the tank and change the new water.
8. Because there is a motor in the equipment, the water cooler can't be used in the rain. No water is allowed to come in the loop of the motor avoiding a shortage to burn-up the motor.

#### 4. INSTALLATION

1. Confirm the input voltage. (See the nameplate that on the machine. Incorrect input voltage will damage the machine.)
2. Insert the OUTLET of the water cooler into the INLET of the welding machine
3. Insert the INLET of the water cooler into the OUTLET of the welding machine



4. The user is responsible for the installation and use of the equipment according to the instructions provided in this manual. The equipment is designed for use in industrial environments.

The equipment is powered from a suitable power socket. Connect the outlet of the cooler unit to the inlet of the welding unit. Connect the inlet of the cooler unit to the outlet of the welding unit. **IMPORTANT** - The unit should be switched on at all times during welding to prevent damage to torches and cables

Ensure the unit is filled with water and checked once the cables and hoses have been filled following the start of the machine. If the unit is to be used in cold climates it is recommended that antifreeze (glycol) is added to the water. Do not use antifreeze with propylene as this may cause the pump to seize.

#### 5. MAINTENANCE

**Warning** - Before carrying out any internal inspection disconnect the unit from the mains supply

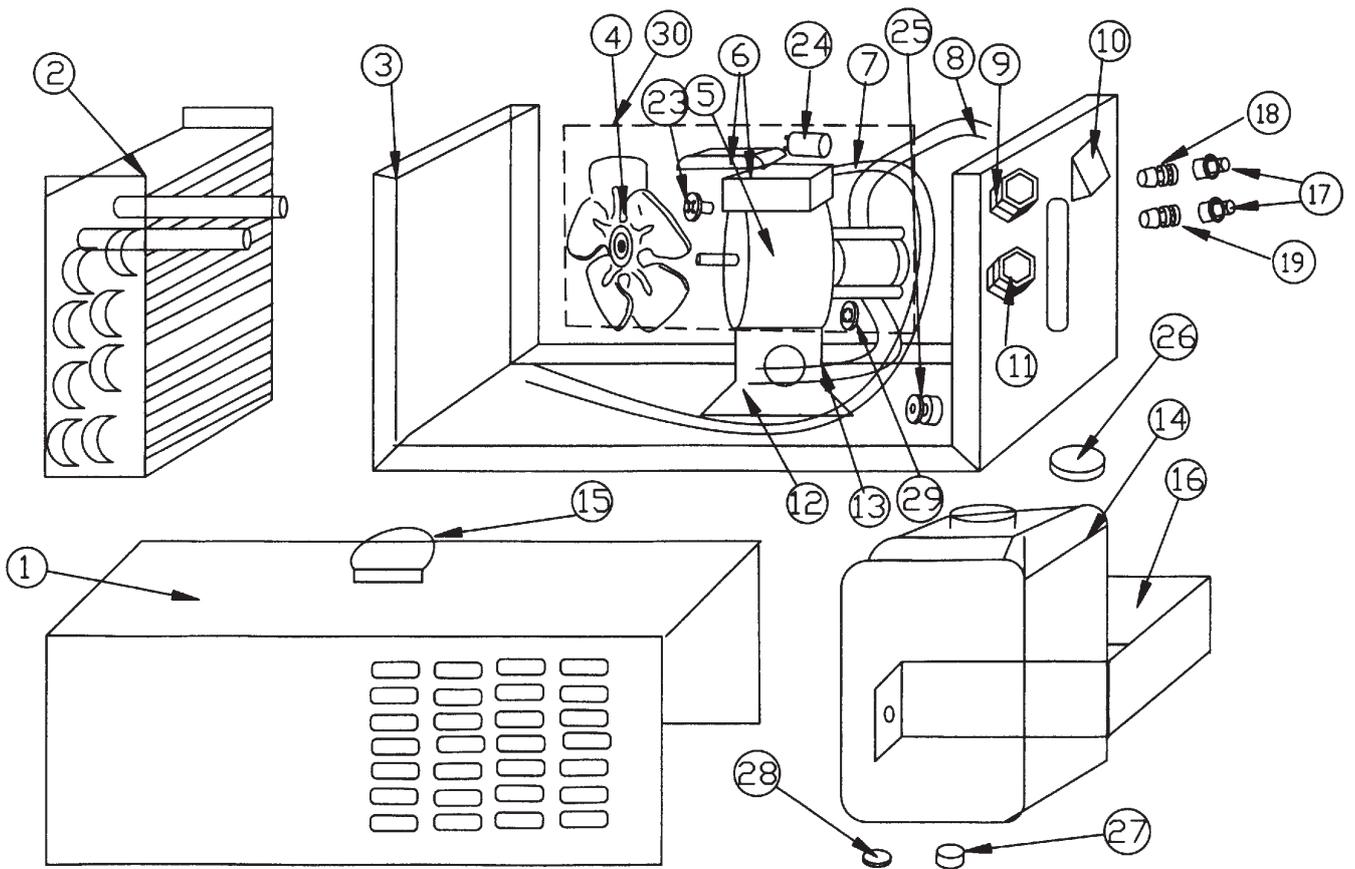
- Don't use of unsuitable and conductive cooling fluid
- Periodically check the level of the cooling fluid

- Add fluid when the level drops below the minimum level indicator
- Add antifreeze when the room temperature is below 10 °C .
- Make sure all the joints are tight and there are no leaks
- Periodically clean the radiator with clean dry air to eliminate blockages that may affect the efficiency

**IMPORTANT** - Always use original spare parts which have been specially designed for the equipment. The use of alternate parts may affect the performance of the unit.

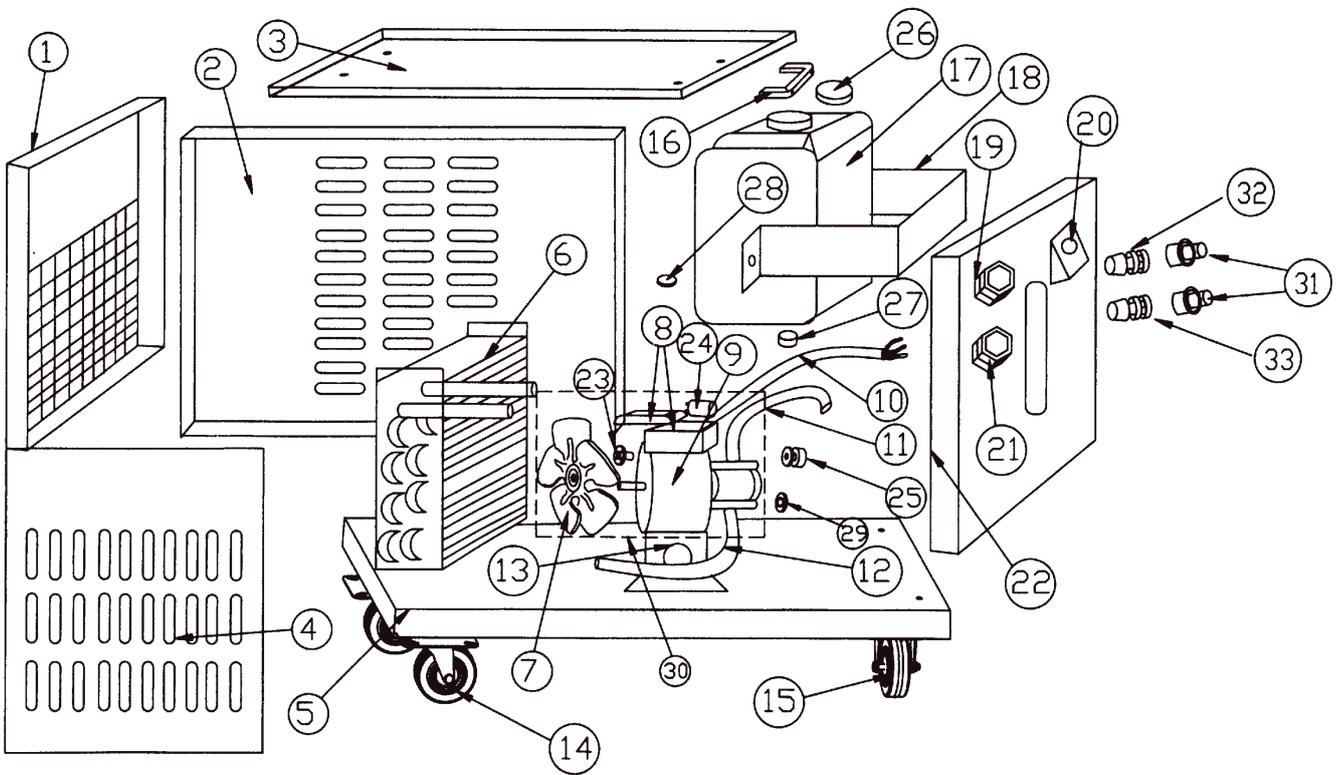
- After long periods of not being used ensure the water is circulating freely through the system.
- The pump may be damaged if run with insufficient coolant
- Ensure the unit is connected to a suitable mains supply.
- The motor will not run if:
  - The mains voltage is too low
  - The start capacitor is defective
  - The motor is defective
  - The motor has not been used for a long period. This may be corrected by pumping compressed air into the water inlet or outlet connection for 20sec.

## 6. EXPLODED VIEW



No.	Code	Description	12	EY19012P0102B1	motor holder
1	EY19012S0301R1	top cover	13	SD055002	hose
2	ED055000-3	radiator(Cu-2 rows)	14	SS055002-2	water tank
	ED074011	radiator(Al)	15	SC055001	handle
	ED055000	radiator(Cu-3 rows)	16	EY19012P0202B1	tank holder
3	EY19012X0301B1	bottom panel	17	JC062000	quick connector-male (optional)
7	XE071001	power cable	18	JC062001	red inlet quick connector-female (optional)
8	SD055000	hose	19	JC062002	blue outlet quick connector-female (optional)
9	JC055002	inlet connector	26	SS062000	big cover of tank
10	KE055009	main switch	27	SS062001	small cover of tank
11	JC055004	outlet connector	28	SS063000	washer for small cover

No.	Code	Description	No.	Code	Description
30	MB055002 MB055003 MB055005	110V motor 220V motor 380V motor	4	MB055000	fan
			5	MB055020	110V motor body(OPTIONAL)
				MB055010	220V motor body(STD)
				MB055030	380V motor body(OPTIONAL)
			6	MB064000	cable box
			23	MB064001	fan socket
			24	MB055021	capacitor for 110V motor(OPTIONAL)
				MB055011	capacitor for 220V motor(STD)
MB055031	capacitor for 380V motor(OPTIONAL)				
25	MB055004	pump head			
29	MB055013	water seal			



**500 series water cooler**

No.	Code	Description	16	SC055003	handle
1	EY19042H0101B1	back panel	17	SS055001	water tank
2	EY19042R0101R1	right panel	18	EY19042P0201B1	tank holder
3	EY19042S0101R1	top tray	19	JC055002	inlet connector
4	EY19042L0101R1	left panel	20	KE055004	main switch
5	EY19042X0101B1	bottom board	21	JC055004	outlet connector
6	ED083000	radiator	22	EW055230	front panel
10	XD063001	power cable	26	SS062000	big cover of tank
11	SD055000	hose	27	SS062001	small cover of tank
12	SD055002	hose	28	SS063000	washer for small cover
13	EY19042P0101B1	motor holder	31	JC062000	quick connector-male (optional)
14	SG055001	fixed wheel	32	JC062001	red inlet quick connector-female (optional)
15	SG055000	swivel caster	33	JC062002	blue outlet quick connector-female (optional)

No.	Code	Description	No.	Code	Description
30	MB055002 MB055003 MB055005	110V motor 220V motor 380V motor	4	MB055000	fan
			5	MB055020	110V motor body(OPTIONAL)
				MB055010	220V motor body(STD)
				MB055030	380V motor body(OPTIONAL)
			6	MB064000	cable box
			23	MB064001	fan socket
			24	MB055021	capacitor for 110V motor(OPTIONAL)
				MB055011	capacitor for 220V motor(STD)
MB055031	capacitor for 380V motor(OPTIONAL)				
25	MB055004	pump head			
29	MB055013	water seal			

## WARRANTY CARD

Product model	Date of sale
Serial number	Company
Username	Client's signature

The product is in good conditions and fully complete. Read and agree the terms of the warranty.

## GUARANTEE

The warranty period starts from the date of sale of the products and covers 2 years for all power products.

During the warranty period, free failures caused due to the use of poor-quality materials in the production and manufacturer workmanship admitted fault are removed. The guarantee comes into force only when warranty card and cutting coupons are properly filled. The product is accepted for repair in its pure form and full completeness.

## WARRANTY DOES NOT COVER

- Mechanical damage (cracks, chips, etc.) and damage caused by exposure to aggressive media, foreign objects inside the unit and air vents, as well as for damage occurred as a result of improper storage (corrosion of metal parts);
- Failures caused by overloading or product misuse, use of the product for other purposes. A sure sign of overload products is melting or discoloration of parts due to the high temperature, simultaneous failure of two or more nodes, teaser on the surfaces of the cylinder and the piston or destruction of piston rings. Also, the warranty does not cover failure of the automatic voltage regulator due to incorrect operation;
- Failure caused by clogging of the fuel and cooling systems;
- Wearing parts (carbon brushes, belts, rubber seals, oil seals, shock absorbers, springs, clutches, spark plugs, mufflers, nozzles, pulleys, guide rollers, cables, recoil starter, chucks, collets, removable batteries, filters and safety elements, grease, removable devices, equipment, knives, drills, etc.);
- Electrical cables with mechanical and thermal damage;
- Product opened or repaired by a non-authorized service center.
- Prevention, care products (cleaning, washing, lubrication, etc.), installation and configuration of the product;
- Natural wear products (production share);
- Failures caused by using the product for the needs related to business activities;
- If the warranty card is empty or missing seal (stamp) of the Seller;
- The absence of the holder's signature on the warranty card.







<b>DAEWOO</b>	<b>DAEWOO</b>	<b>DAEWOO</b>
Product _____	Product _____	Product _____
Model _____	Model _____	Model _____
Company _____	Company _____	Company _____
Date of sale _____	Date of sale _____	Date of sale _____



**DAEWOO**  
POWER PRODUCTS

[www.daewoopowerproducts.com](http://www.daewoopowerproducts.com)

Manufactured under license of **Daewoo International Corporation**, Korea