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› CREWORKS CW-6000 Industrial Water Chiller User Manual

CREWORKS CW-6000

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Model: CW-6000

1. INTRODUCTION

Thank you for choosing the CREWORKS CW-6000 Industrial Water Chiller. This manual provides essential information for the safe and efficient operation, installation, maintenance, and troubleshooting of your new water chiller. Please read this manual thoroughly before operating the unit and keep it for future reference.

The CW-6000 is designed to provide stable and efficient cooling for various industrial equipment, including CO2 laser engravers, cutters, CNC machines, and welding machines, ensuring optimal performance and longevity of your machinery.



Figure 1: Front view of the CREWORKS CW-6000 Industrial Water Chiller.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury and damage to the equipment.

- Ensure the chiller is connected to a properly grounded power outlet with the correct voltage (110V/60Hz).
- Do not operate the chiller with damaged power cords or plugs.
- Keep the chiller away from flammable materials, heat sources, and direct sunlight.
- Only use purified water, distilled water, or antifreeze glycol (volume ratio 50%) as the cooling medium. Do not

use motor vehicle antifreeze, oil-based liquids, or liquids with pH values outside 6.5-7.5.

- Ensure adequate ventilation around the chiller to prevent overheating.
- Do not open the electrical connection box or attempt repairs unless you are a qualified professional. Charged parts are inside.
- Always turn off the power switch and unplug the unit before performing any maintenance or troubleshooting.
- Avoid direct contact with the refrigerant. In case of leakage, ventilate the area immediately.

3. PRODUCT OVERVIEW

The CW-6000 water chiller features a robust design with key components for efficient cooling and user-friendly operation.

3.1 Key Components and Features

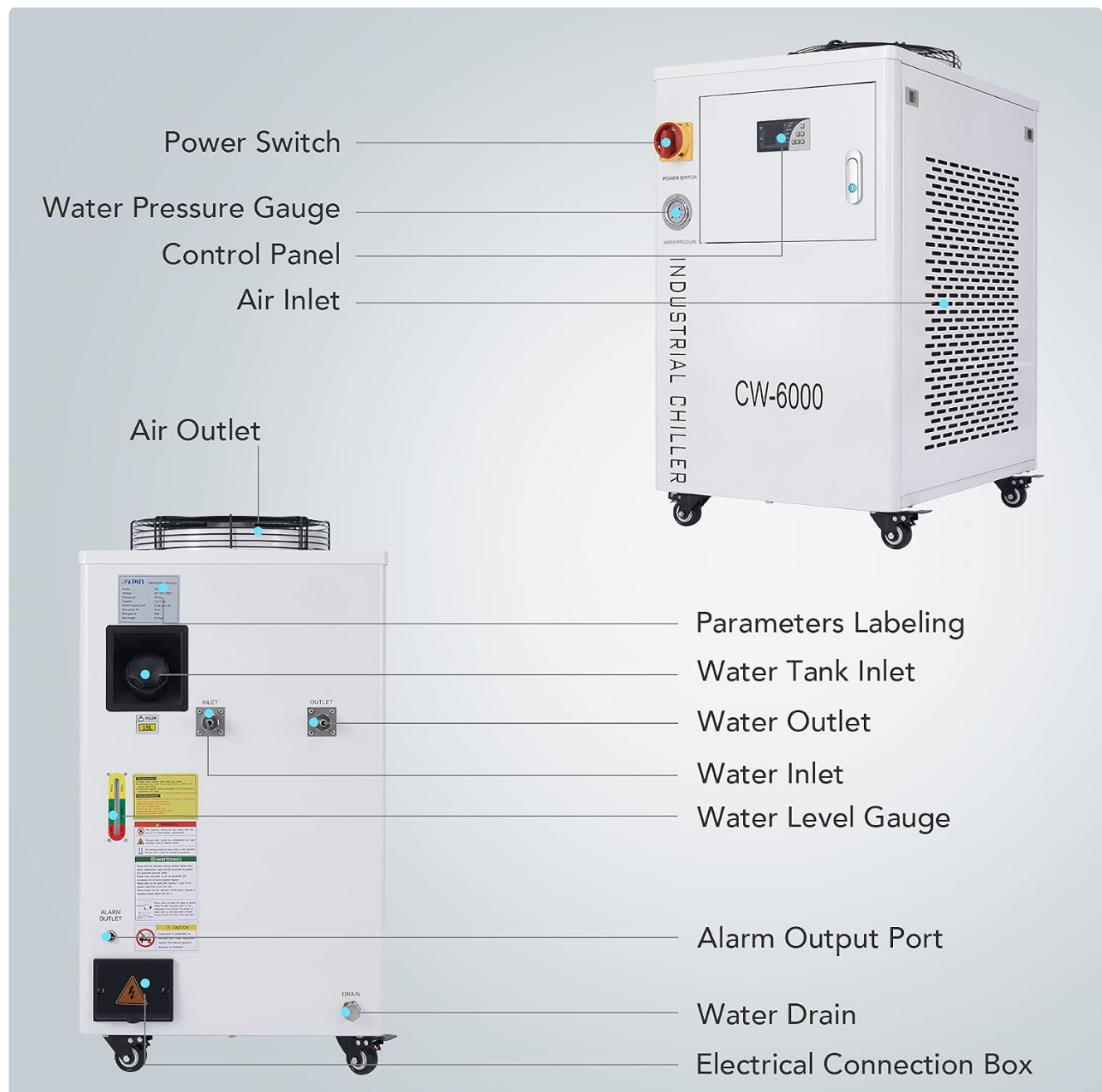


Figure 2: Labeled diagram of the CW-6000 chiller components.

- **Power Switch:** Main switch to turn the unit on/off.

- **Water Pressure Gauge:** Displays the real-time water pressure within the system.
- **Control Panel:** Digital display for temperature settings, alarms, and operational status.
- **Air Inlet/Outlet:** Vents for air circulation and heat dissipation.
- **Water Tank Inlet:** Port for filling the water tank.
- **Water Inlet/Outlet:** Ports for connecting to the external equipment requiring cooling.
- **Water Level Gauge:** Visual indicator for the water level (Full, Normal, Alarm).
- **Alarm Output Port:** For external alarm connections.
- **Water Drain:** For draining the water tank.
- **Electrical Connection Box:** Contains internal wiring and components.



Figure 3: Details of the built-in cooling fan, smart control panel, and industrial main switch.

The chiller features a built-in cooling fan for efficient heat dissipation, a smart control panel for easy temperature adjustment, and a robust industrial main switch for safe operation.



WATER PRESSURE GAUGE

Check the water pressure in real time to ensure safe operation

WATER TANK INLET

Connect with your water pipe and fill the water tank



INLET



OUTLET



WATER INLET/OUTLET

Connect with your machine to cool it down

Figure 4: Details of the water pressure gauge, water tank inlet, and water inlet/outlet ports.

The water pressure gauge allows real-time monitoring of the system's pressure, while the water tank inlet and brass inlet/outlet ports ensure secure and corrosion-free connections.



Figure 5: Convenient casters, 4-gallon water tank, and water level gauge.

Equipped with four high-quality casters, the chiller can be easily moved. The 4-gallon (15L) water tank is enclosed to minimize evaporation, and the clear water level gauge provides a quick visual check of the water level.

4. SETUP INSTRUCTIONS

Follow these steps for the initial setup of your CW-6000 water chiller.

1. **Unpacking and Placement:** Carefully remove the chiller from its packaging. Place the unit on a stable, level surface in a well-ventilated area, ensuring sufficient space around the air inlets and outlets. The casters can be locked to secure the unit in place.
2. **Fill Water Tank:** Open the water tank inlet cap. Fill the 4-gallon (15L) tank with purified water, distilled water, or a 50% antifreeze glycol solution. Monitor the water level gauge to ensure it reaches the 'FULL' or 'NORMAL' range. Do not overfill.
3. **Connect Water Pipes:** Connect the water inlet and outlet ports of the chiller to your industrial equipment (e.g., laser engraver, CNC machine) using appropriate hoses. Ensure connections are secure and leak-free. The chiller's inlet connects to the equipment's outlet, and the chiller's outlet connects to the equipment's inlet.

4. **Power Connection:** Connect the chiller's power cord to a grounded 110V/60Hz power outlet.
5. **Initial Power On:** Turn the industrial main switch to the 'ON' position. The chiller will begin to circulate water and cool. The digital control panel will display the current water temperature.
6. **Check for Leaks and Air Bubbles:** After initial power-on, check all connections for leaks. Allow the system to run for a few minutes to purge any air bubbles from the lines. You may need to add more water if the level drops significantly due to filling the equipment's internal lines.

5. OPERATING INSTRUCTIONS

The CW-6000 chiller is designed for straightforward operation. The smart control panel allows for precise temperature management.

5.1 Control Panel Operation

The digital control panel displays the current water temperature and allows you to set the desired temperature. Refer to the specific instructions provided with the chiller for detailed button functions (SET, UP, DOWN, RST, etc.) to adjust parameters and view status.

- **Temperature Display:** Shows the real-time water temperature.
- **Setting Temperature:** Use the 'SET' button and arrow keys to adjust the target temperature. The chiller will work to maintain the water temperature within $\pm 0.5^{\circ}\text{C}$ of your set point.
- **Alarm Indicators:** The panel includes indicators for various alarms (e.g., high temperature, low water flow, sensor error). Consult the troubleshooting section if an alarm is triggered.

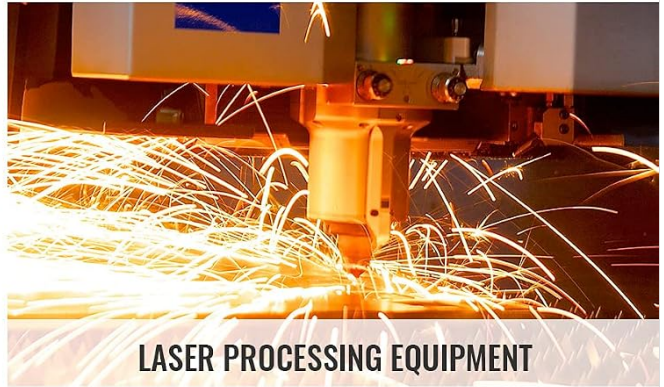
5.2 Normal Operation

Once set up, the chiller will automatically regulate the water temperature. Ensure the air vents are unobstructed for continuous efficient cooling.

WIDE COMPATIBILITY



CNC EQUIPMENT



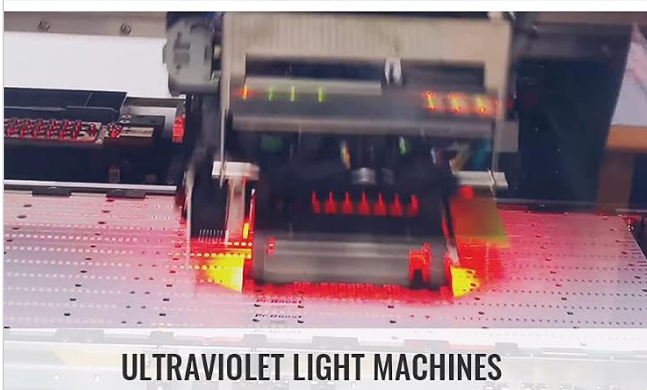
LASER PROCESSING EQUIPMENT



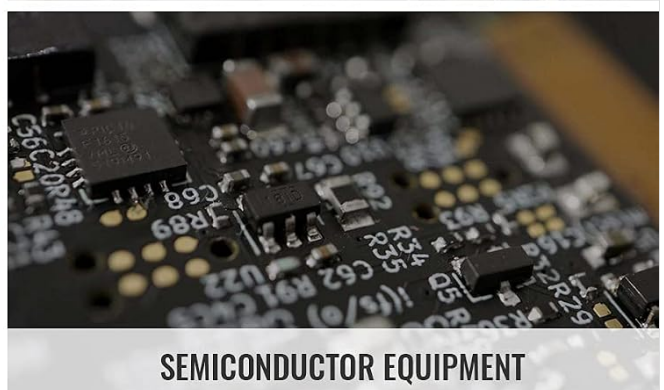
ANALYTICAL INSTRUMENTS



THERMOFORMING EQUIPMENT



ULTRAVIOLET LIGHT MACHINES



SEMICONDUCTOR EQUIPMENT

Figure 6: The CW-6000 chiller is compatible with a wide range of industrial equipment.

The CW-6000 is suitable for use with CNC equipment, laser processing equipment, analytical instruments, thermoforming equipment, ultraviolet light machines, and semiconductor equipment.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your water chiller.

- **Check Water Level:** Regularly check the water level gauge. Refill with appropriate cooling medium when the level drops to the 'ALARM' or low 'NORMAL' range.
- **Clean Dust Filter/Condenser:** Periodically clean the dust filter and condenser fins to ensure proper airflow and heat exchange. A clogged condenser can reduce cooling efficiency and lead to overheating. Use compressed air or a soft brush.
- **Replace Cooling Medium:** It is recommended to replace the cooling medium every 3-6 months, depending on usage and water quality, to prevent algae growth and mineral buildup.
- **Inspect Hoses and Connections:** Periodically check all hoses and connections for signs of wear, cracks, or

leaks. Replace any damaged components immediately.

- **Drain Water for Storage:** If the chiller will not be used for an extended period or during freezing temperatures, drain all water from the tank and lines to prevent damage.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your CW-6000 water chiller.

Problem	Possible Cause	Solution
Chiller not turning on	No power, main switch off, power cord damaged	Check power outlet, ensure main switch is ON, inspect power cord.
Insufficient cooling	Low water level, clogged condenser, ambient temperature too high, refrigerant leak	Add water, clean condenser, ensure proper ventilation, contact service for refrigerant issues.
Water flow alarm	Low water level, pump malfunction, clogged water lines	Add water, check pump, clear any blockages in water lines.
High temperature alarm	Overload, poor ventilation, fan malfunction, insufficient cooling medium	Reduce load, ensure clear vents, check fan operation, add cooling medium.
Water leakage	Loose connections, damaged hoses/tank	Tighten connections, replace damaged hoses or contact service for tank issues.

If the problem persists after attempting these solutions, please contact CREWORKS customer service for assistance.

8. SPECIFICATIONS

Detailed technical specifications for the CREWORKS CW-6000 Industrial Water Chiller.



Input Voltage: 110V/60Hz	Pump Power: 0.73 hp (550W)
Current: 3.5–11A	Tank Capacity: 4 gal. (15L)
Compressor Power: 1 hp (0.75 kW)	Inlet / Outlet Fitting: ½ in. (1.27 cm)
Refrigeration Capacity: 10700 BTU/hr. (3.1 kW)	Max. Lift: 160 ft. (48 m)
Refrigerant: R-410A	Max. Flow: 8.7 gpm (33 L/min)
Refrigerant Capacity: 1 lb. (480 g)	Net Weight: 180 lb. (82 kg)
Temperature Accuracy: ±0.9°F (±0.5°C)	Dimensions: 25 × 17 × 28 in. (64×43×73 cm)
Reducer Type: Capillary	

Figure 7: Dimensions and detailed specifications of the CW-6000 chiller.

Parameter	Value
Model Number	CW-6000
Input Voltage	110V/60Hz
Current	3.5-11A
Compressor Power	1 hp (0.75 kW)
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Inlet / Outlet Fitting	½ in. (1.27 cm)
Max. Lift	160 ft. (48 m)
Max. Flow	8.7 gpm (33 L/min)
Net Weight	180 lb. (82 kg)
Product Dimensions (L x W x H)	25 x 17 x 28 inches (64 x 43 x 73 cm)
Material	Steel, ABS, Copper
Color	White

9. WARRANTY AND SUPPORT

CREWORKS stands behind the quality of its products. The CW-6000 Industrial Water Chiller comes with a strong warranty and dedicated customer support.

- **Warranty:** This product is covered by a 1-year replacement warranty. Please retain your proof of purchase for warranty claims.
- **Customer Service:** For any questions, technical assistance, or warranty inquiries, please contact CREWORKS customer service. Our team is available 24/7 to provide support and ensure your satisfaction.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question