

AUCD H30C-18

AUCD AC 30DCB 18W Cuprum Core Oil Pump Instruction Manual

Model: H30C-18

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your AUCD AC 30DCB 18W Cuprum Core Oil Pump. This pump is specifically designed for integration into 400W-500W fog machines, steam irons, beauty apparatus, and water aspirators. It features a durable cuprum core and AC power magnetic core separation for enhanced safety and reliability.

Please read these instructions thoroughly before installation and operation to ensure proper function and to prevent damage or injury.

2. SAFETY INFORMATION

- **Electrical Safety:** Ensure the power supply matches the pump's voltage requirements (AC 110-120V@60Hz). Disconnect power before any installation, maintenance, or troubleshooting.
- **Fluid Compatibility:** Use only recommended fog fluid or appropriate liquids for your specific application. Using incompatible fluids may damage the pump or connected equipment.
- **Installation:** Installation should be performed by qualified personnel or individuals with sufficient technical knowledge of the equipment the pump is being integrated into.
- **Overheating:** Ensure adequate ventilation around the pump and connected device to prevent overheating.
- **Children and Pets:** Keep the pump and any associated equipment out of reach of children and pets.

3. PRODUCT OVERVIEW

The AUCD H30C-18 pump is a compact and robust component designed for various applications requiring fluid transfer, particularly in fog generation. Its cuprum core ensures efficient and consistent performance.



Figure 1: Front view of the AUCD AC 30DCB 18W Cuprum Core Oil Pump, showing its compact design and brass fittings.



Figure 2: Side view of the pump, highlighting the electrical connections and mounting bracket.



Figure 3: Close-up of the product label, showing model H30C-18, voltage AC 90-120V, rating 30DSB 18W, and Class F insulation.

4. INSTALLATION

The H30C-18 pump is designed for easy integration. Follow these general steps for installation:

1. **Power Disconnection:** Always ensure the host device (e.g., fog machine) is completely disconnected from its power source before beginning installation.
2. **Mounting:** Securely mount the pump within the host device using its integrated bracket. Ensure it is stable and free from excessive vibration.
3. **Fluid Connections:** Connect the inlet and outlet hoses of the pump to the fluid reservoir and the heating element/nozzle of the host device, respectively. Ensure all connections are tight to prevent leaks.
4. **Electrical Connections:** Connect the pump's electrical wires to the appropriate power terminals within the host device. The pump does not require polarity distinction, allowing for flexible connection. The Water Pump Core Rotor and AC Power Magnetic Core Separation design minimizes electric shock risk.
5. **Fluid Filling:** Fill the host device's fluid reservoir with the appropriate fog fluid or liquid for your application.

5. OPERATION

Once the AUCD H30C-18 pump is correctly installed within a compatible device, its operation is typically controlled by the host device's system. For example, in a fog machine, the pump activates to draw fluid from the reservoir and push it towards the heating element when the fog output is triggered.

- **Initial Priming:** After installation or refilling, some devices may require a short period to prime the pump and lines. Refer to your host device's manual for specific priming instructions.
- **Continuous Operation:** The pump is designed for continuous operation within its specified working temperature and flow rate.

Video 1: Demonstration of a fog machine in operation, showcasing the type of application where the AUCD H30C-18 oil pump would be utilized to generate fog output.

Video 2: Another example of a fog machine producing fog, illustrating the function of an integrated oil pump like the H30C-18.

6. SPECIFICATIONS

Refer to the table below for detailed technical specifications of the AUCD H30C-18 pump.

H30-18									
Voltage/ Frequency	Power	Insulation Class	Average Flow Rate	Max Pressure	20CM Noise	Working Temp	Working Mode	Certificate	
volt/Hz	watt	\	ml/min	Bar	dBA	Δ T (k)	min	\	\
230/50	18	F	60-210	2-5	≤55	98	Continuous	\	ROHS
120/60	18								ROHS
100/50-60	18								ROHS

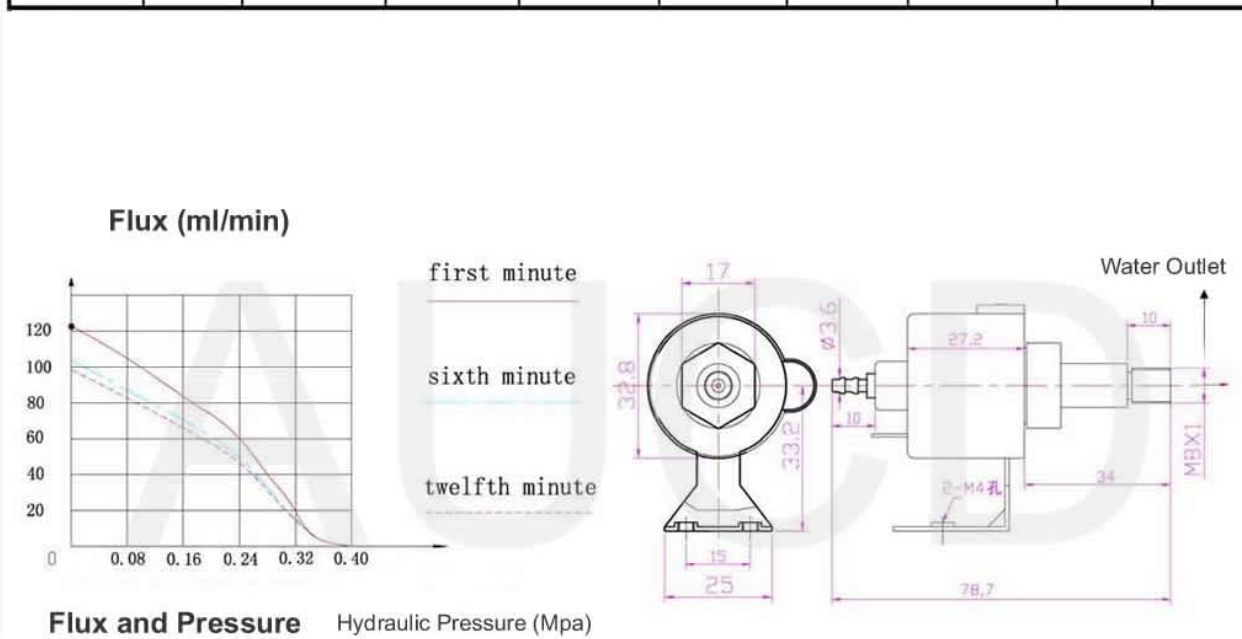


Figure 4: Technical specifications table for the H30-18 pump, including voltage, power, flow rate, pressure, and certifications.

Specification	Value
Brand	AUCD
Model	H30C-18
Rated Power	30DCB 18W Cuprum Core
Voltage	AC 110-120V@60Hz
Insulation Class	F
Average Flow Rate	60-180 ml/min (Max 210 ml/min)
Max Pressure	>=2-5 Bar
20CM Noise	<=55 db
Working Temp	98 T(K)
Certificates	CE, RoHS, UL, VDE

Specification	Value
Material	Copper
Item Weight	0.18 Kilograms (6.3 ounces)
Product Dimensions	3.07 x 1.26 x 1.26 inches

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your pump.

- **Cleaning:** Periodically inspect the pump for any residue or blockages. Clean the exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive materials.
- **Fluid Lines:** Ensure fluid lines are clear and free from kinks or obstructions.
- **Storage:** If storing the pump for an extended period, ensure it is clean and dry. Store in a cool, dry place.

8. TROUBLESHOOTING

If you encounter issues with your AUCD H30C-18 pump, consider the following:

- **No Power:** Check all electrical connections and ensure the host device is receiving power. Verify the pump's wiring is secure.
- **No Fluid Output:** Ensure the fluid reservoir in the host device is adequately filled. Check for any blockages in the fluid lines or the pump's inlet/outlet. Verify the pump is receiving power and activating.
- **Weak Fluid Output:** This could indicate low fluid levels, partial blockages, or an issue with the pump's internal components. Check fluid levels and clear any obstructions.

For persistent issues, consult the service manual of your host device or contact a qualified technician.