



AQUA PURE

INSTRUCTION MANUAL





The AQUA PURE LOW FOG system delivers high-performance low-lying fog without the need for CO₂, eliminating the cost, complexity, and limitations associated with traditional CO₂-based systems.

Engineered for maximum output, it produces one of the most powerful low-lying fog effects available, with fully controllable and customisable output levels. The fog remains dense and stable over long distances, with horizontal tubing lengths of up to 40 m (134 ft) and vertical tubing lengths of up to 20 m (67 ft).

The effect settles smoothly without bounce, reforms when disturbed, and leaves no residue on surfaces. The system is designed to deliver consistent performance across a wide range of ambient temperatures and has been tested in conditions up to 37°C.

Designed for professional applications, the AQUA PURE LOW FOG system provides a powerful, reliable, and completely CO₂-free solution for consistent low-lying fog effects.

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SPECIFICATIONS

MODEL	AQUA PURE ECHO AQUA PURE ADVANCED AQUA PURE PROFESSIONAL AQUA PURE ELITE
POWER CONNECTION	TRUE1 POWER INPUT (MODELS ADVANCED & PROFESSIONAL) CEE16 POWER INPUT (HIGHER OUTPUT MODELS)
CONTROL	INTEGRATED DIGITAL CONTROL INTERFACE DMX CONTROL (3 CHANNEL / 5 CHANNEL MODES) RDM COMPATIBLE
DMX CHANNELS	MODE 1: 3 CHANNELS (FOG OUTPUT, FAN SPEED, WATER MIST) MODE 2: 5 CHANNELS (FOG OUTPUT, FAN SPEED, WATER MIST, WATER SUPPLY, DRAIN)
OPERATING SYSTEM	INTEGRATED DUAL PUMP SYSTEM (FOG FLUID AND WATER) AUTOMATIC FILL AND DRAIN FUNCTIONS
TEMPERATURE OPERATION	READY STATE: >235°C
FLUID REQUIREMENTS	AQUA LOW FOG FLUID (LIGHT OR STANDARD) DISTILLED WATER REQUIRED
CONNECTIONS	DMX IN / OUT POWER INPUT (MODEL DEPENDENT) EXTERNAL WATER DRAIN CONNECTION

SAFETY PRECAUTIONS

- 1 This machine produces heated vapour and must be operated responsibly at all times.
- 2 The output nozzle and internal components operate at high temperatures and may cause burns if touched during operation. Avoid direct contact with the nozzle and surrounding areas while the machine is in use or cooling down.
- 3 Do not direct the fog output towards people, animals, or sensitive equipment at close range. Always ensure adequate ventilation is available when operating the machine.
- 4 The unit must be connected to a suitable power supply and correctly earthed. Do not open the machine while connected to power or during operation. Do not operate the machine if it is damaged, modified, or not functioning correctly.
- 5 Only approved Aqua Low Fog fluids and distilled water must be used. The use of non-approved fluids may cause damage to the machine and will void any warranty.
- 6 The machine must be drained of water daily and may only be transported when empty. Failure to follow these procedures may result in damage to the system.
- 7 The machine should be operated on a stable surface and in a safe environment. While performance is not affected by temperature, environmental humidity will influence the behaviour of the fog effect.

ELECTRICAL CONNECTIONS

The machine must only be connected to a suitable power supply in accordance with the specifications of the unit.

Aqua Pure Echo, Advanced and Professional models are equipped with TRUE1 power input connectors. The Aqua Pure Elite uses a CEE16 industrial power connection. Ensure the correct power source is used for the specific model.

Before connecting to the mains supply, ensure the machine is switched off. Once connected, the unit can be powered on using the main power switch.

Always ensure the machine is properly earthed. Do not operate the unit with an incorrect or unstable power supply.

COLOUR	SUPPLY
BROWN	LIVE
BLUE	NEUTRAL
YELLOW/GREEN	EARTH

OPERATING PROCEDURES

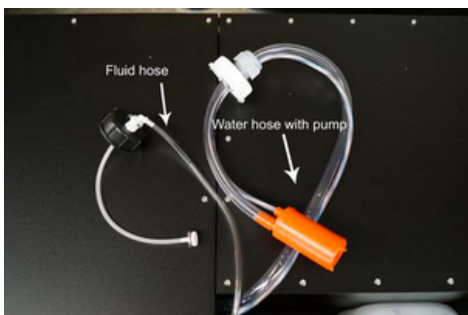
Before operating the machine, ensure all connections are correctly installed and the unit is positioned on a stable surface.

Fluid & Water Set Up

Fill the water canister with distilled water and insert the water hose with pump fully into the container. Place the canister into the designated compartment.

Connect the fog fluid container and ensure the fluid hose is securely inserted and correctly positioned.

Ensure all hoses are properly connected and free from restriction before operating the machine.



ONLY USE APPROVED AQUA LOW FOG FLUID AND DISTILLED WATER.

Power Connection

Models Aqua Pure Echo and Aqua Pure Advanced are equipped with TRUE1 power connectors (LEFT) while Aqua Pure Elite utilise CEE16 industrial power inputs (RIGHT). Ensure the machine is connected to a suitable power supply in accordance with the specifications of the unit. Before connecting to the mains supply, confirm the machine is switched off. Once connected, the unit can be powered on using the main power switch. Always ensure the machine is properly earthed and connected to a stable power source.

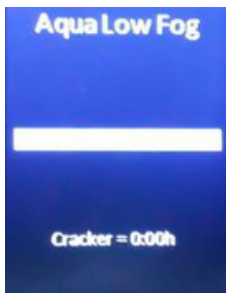


Start Up

After completing the fluid and water setup, connect the machine to the appropriate power supply.

Switch on the unit using the main power switch. The machine will begin its automatic heating cycle.

During this time, the system will warm up to operating temperature. Once the required temperature is reached, the machine will indicate that it is ready for operation.

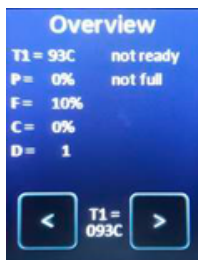


THE MACHINE IS READY WHEN THE SYSTEM DISPLAYS “READY” STATUS.

Control Overview

The display screen provides real-time information about the machine's operating status and settings.

The main overview screen shows current system values including temperature, output levels, and DMX address.



T1 indicates the system temperature.

P represents the fog output level.

F shows the fan speed.

C indicates internal system activity.

D displays the current DMX address.

The machine is ready for operation when the system indicates “Ready” status and the required operating temperature has been reached.

Navigation through the menu is controlled using the on-screen arrows.

Fill & Drain

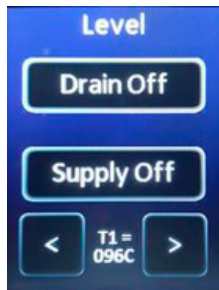
The machine features an integrated fill and drain system for managing the internal water tank.

To fill the system, select the “Supply” function from the control interface. This will begin transferring water from the external container into the machine.

To drain the system, select the “Drain” function. This will remove water from the internal tank via the external drain connection.

Ensure the machine is not connected to DMX control when performing fill or drain operations.

Do not overfill the system. If excessive water is pumped into the unit, switch off the machine immediately.



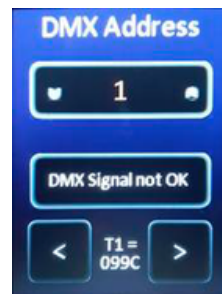
The machine must be fully drained before transport. Do not move the unit while water remains inside.

DMX Control

The machine supports DMX control for integration into lighting and control systems.

When connected to a DMX controller, the unit can be operated remotely, allowing control of fog output, fan speed, and additional system functions.

The DMX start address can be configured via the control interface. Ensure the correct address is set before operation.



DMX CHANNELS

Mode 1 (3 Channel):

Channel 1 controls fog output.

Channel 2 controls fan speed.

Channel 3 controls water mist / fog density.

Mode 2 (5 Channel):

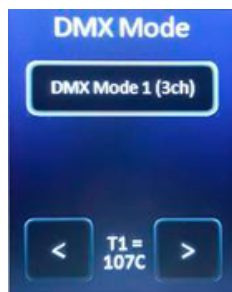
Channel 1 controls fog output.

Channel 2 controls fan speed.

Channel 3 controls water mist / fog density.

Channel 4 controls water supply.

Channel 5 controls drain function.



To change the DMX mode, select the DMX Mode option on the control interface and switch between Mode 1 (3 channel) and Mode 2 (5 channel).

Use the on-screen arrows to navigate through the menu.

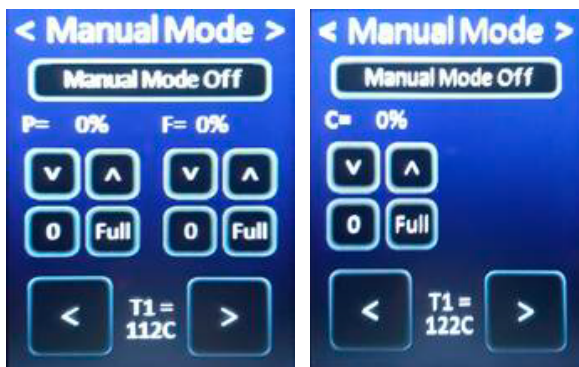
When DMX control is active, manual operation is overridden by the incoming DMX signal.

Fill and drain functions can also be controlled via DMX when using 5-channel mode.

The display will indicate the status of the DMX signal. When DMX is connected, certain menu functions may be restricted.

Manual Mode

Manual Mode allows direct control of the machine's output and fan settings from the control interface.



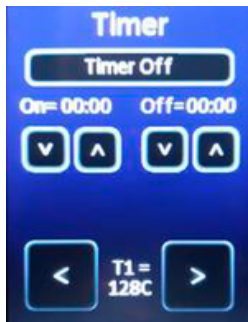
Manual Mode can be activated or deactivated via the control screen.

When enabled, output levels and fan speed can be adjusted directly using the on-screen controls.

Use the on-screen arrows to navigate between settings and menu screens.

Timer

The Timer function allows automatic control of fog output using set on and off intervals.



Set the ON time to define how long the machine produces fog.

Set the OFF time to define the interval between output cycles.

The timer can be activated or deactivated via the control interface.

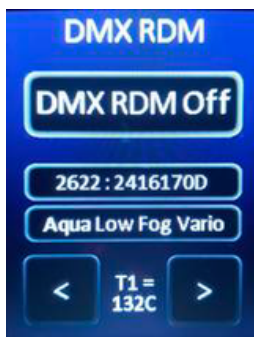
Use the timer function to create consistent, repeated fog effects without manual control.

RDM

RDM (Remote Device Management) allows two-way communication between the machine and a compatible DMX controller.

When enabled, the controller can read device information such as DMX address and system status.

RDM can be activated or deactivated via the control interface.



IMPORTANT INFORMATION

Error Messaging

Error E-01 to E-09, 0A, 0B, 0C, and 0D indicate a thermoelement fault. The machine will not operate until the issue is resolved.

Error E-10 indicates that the ambient temperature exceeds 70°C. The machine will return to normal operation once it has cooled down.

If an error persists, switch off the machine and contact your service provider.

DMX Output Behaviour

Higher output levels will produce a denser and heavier fog effect. Excessive output, particularly in high humidity environments, may result in increased moisture on surfaces. Adjust output levels as required to achieve the desired effect.

Pump Out Procedure

The machine is equipped with an external wastewater outlet connection. Connect a suitable hose to the outlet to remove waste water from the system.

Ensure the DMX cable is disconnected before performing this operation.

Select the “Drain” function from the control interface and allow the system to empty fully.

Use only approved Aqua Low Fog Fluid LIGHT or STANDARD.

The machine must be drained of water daily.

The machine must be fully drained before transport.

Do not open the machine while connected to power or during operation.



MAINTENANCE

Regular maintenance is essential to ensure reliable performance and longevity of the Aqua Pure system.

The machine must be drained of water after each use and must not be stored with water remaining inside the system. Failure to do so may result in internal damage.

Only approved Aqua Low Fog Fluid (LIGHT or STANDARD) and distilled water must be used at all times. The use of non-approved fluids or contaminated water may cause blockages or damage to internal components.

Before each use, check that all hoses, connections, and fittings are securely connected and free from kinks or obstructions.

The exterior of the machine should be kept clean and free from dust or debris. Do not use excessive moisture when cleaning.

If the machine is not operating correctly, or if performance changes, discontinue use and contact an authorised service provider.

WARRANTY

The Aqua Pure system is supplied with a one-year warranty covering parts and labour from the date of purchase.

This warranty applies to manufacturing defects, provided the machine has been operated in accordance with this manual and only approved Aqua Low Fog fluids have been used. The use of non-approved fluids or improper operation may void the warranty.

The manufacturer considers all products safe for use within their intended applications. However, no responsibility is accepted for misuse, incorrect operation, or use outside of recommended conditions.

Always follow the instructions outlined in this manual and comply with all applicable local regulations when operating the machine.

IMPORTANT

Use only Aqua Low Fog Fluid LIGHT or STANDARD to maintain warranty validity.

The machine must be drained of water daily.

The machine must be fully drained before transport.

Do not open the machine while connected to power or during operation.



Le Maitre[®]

PYROTECHNICS & SPECIAL EFFECTS

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