

ORB-400

BUBBLE/HAZE MACHINE

Item ref: 160.462UK

User Manual





Caution: Please read this manual carefully before operating
Damage caused by misuse is not covered by the warranty

Introduction

Thank you for choosing the ORB-400 bubble/haze machine for stage and events special effects. This product is designed to produce bubbles, haze or a combination of both for atmospheric special effects. Please read these instructions in full to gain the best results from this item and avoid damage to the unit through misuse.

Unpacking

Your ORB-400 should reach you in good condition and should be supplied with IEC mains lead(s), wired remote timer control, wireless plug-in receiver and keyfob remote.
If there are any signs of damage or items missing from the packaging, contact your dealer immediately.

Warning

To prevent risk of fire or electric shock, do not expose electrical parts to rain or moisture.
If liquids are spilled on areas other than the fluid bath or tank, disconnect the mains, allow the ORB-400 to dry out and have it checked by qualified personnel before further use.
Avoid any impact, dropping or extreme pressure to the housing.
No user serviceable parts inside - do not open the case.
Allow the ORB-400 to acclimatize to room temperature before operating.
Refer all servicing to qualified service personnel.

Placement

The ORB-400 has built-in fluid containers and should be operated in an upright position.
Ensure that the ORB-400 is positioned on a stable, non-slip surface.

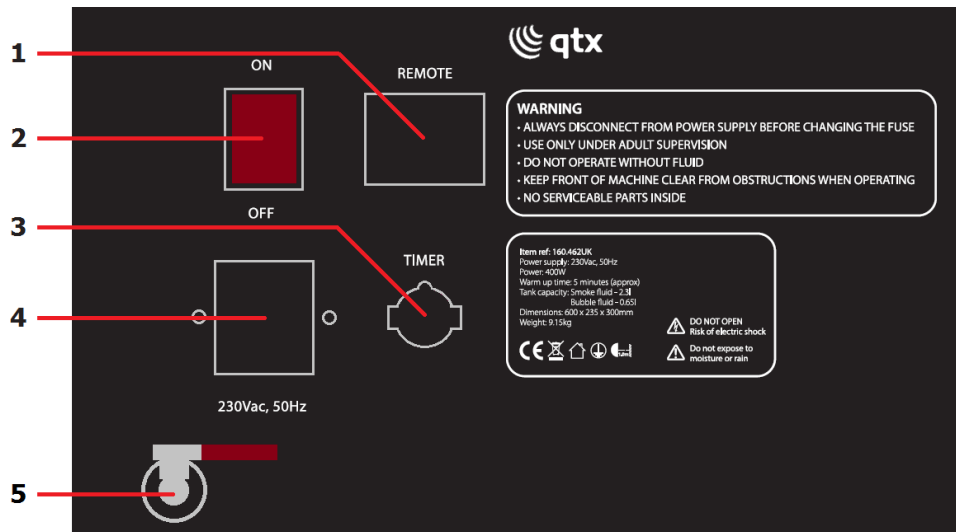
Safety

- Check for correct mains voltage and condition of IEC lead before connecting to power outlet
- Check the condition of the remote lead and ensure that it is not trapped
- This unit must be earthed
- This unit uses a heating element – be aware that parts of the housing may be hot whilst in use!

Cleaning

- Use a soft dry or slightly damp to clean the casing
- Do not use strong solvents for cleaning the unit
- Clean the haze mechanism periodically by operating with distilled water instead of haze fluid
- It is also recommended to use fog machine cleaning fluid (160.670UK) periodically
- The bubble fluid bath can be cleaned by rinsing with water, draining through the rear panel tap

Rear Panel



1. Wireless remote control connection for bubble effect (IEC female)
2. Mains power on/off rocker switch
3. Haze remote timer control connection (5-pin DIN)
4. Mains inlet (IEC male) and fuse holder
5. Bubble fluid drain tap

Setting up

The ORB-400 requires haze fluid and bubble fluid to create each effect.

It is recommended to use one of each from the range of qtx haze and bubble fluids for best results. A chart for recommended fluids is included further along in this document.

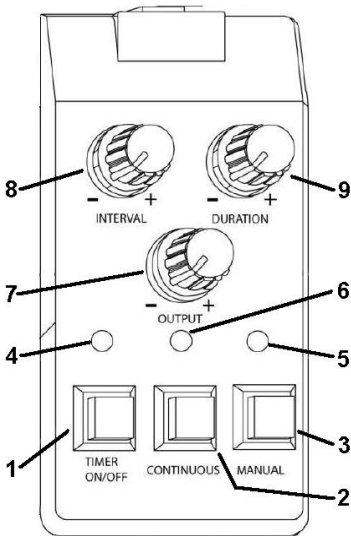
- Unscrew the top cap of the haze fluid tank and remove to fill with the selected haze fluid
- Replace the cap and close securely, ensuring the pipe is fed down to the bottom of the bottle so that a consistent flow of fluid is supplied to the machine
- Connect the remote timer control to the 5-pin DIN connector on the rear panel (3)
- For bubble effects, fill the front fluid bath to a level covering the lowest bubble wands completely
- Connect the supplied wireless remote receiver to the female IEC (1) on the rear panel
- Connect the IEC mains lead supplied to the rear mains inlet (4)

Operation

- Make sure that none of the remote timer control buttons are pressed in at startup
- Switch the mains power on (2)
- If bubble effect is required, this will be available straight away
- Pressing the buttons on the wireless keyfob remote control starts and stops rotation of the wand wheel
- Heat up time for haze effect is usually between 4-5 minutes.
- Haze effect is controlled via the remote timer control – see below for operation
- During prolonged use, periodically check that the fluid level is not empty
- After use, it will be necessary to empty the bubble fluid bath (5) using the rear drain tap before moving
- Switch off when not in use. Unplug from mains if not in use for long periods

Warning: Even if bubble effect is being used without haze effect, there may still be hot surfaces on the housing as the haze heater will still be activated.

Remote timer control



1. Timer button (latching) - activates the timer control
2. Continuous button (latching) – overrides timer control for constant haze
3. Manual button (non-latching) – overrides timer control for haze on demand
4. Timer indicator – illuminated when timer function is active
5. Ready indicator – illuminated when heated up ready to produce haze
6. Continuous indicator – illuminated when continuous function is active
7. Output control – adjusts the amount and density of haze effect
8. Interval control – adjusts the interval between haze output on timer control
9. Duration control – adjusts the time length of haze output on timer control

- When the machine is ready to operate, the ready light (5) on the remote timer control will illuminate.
- You may now press the Manual (3) button for haze on demand – releasing button stops the haze effect
- When the ready indicator is off, the ORB-400 needs time to re-heat and will not produce haze effect
- For constant haze effect, use the latching Continuous (2) button and the Continuous LED (6) will light
- The density of haze effect can be varied by adjusting the rotary Output control (7)
- Pressing the Timer button (1) will activate the hands-free timer function and the timer LED (4) will light
- The Interval control (8) adjusts the time between haze effect output in each timer cycle
- The Duration control (9) adjusts the length of time that haze is produced in each timer cycle

Combined ORB effect

If the bubble wheel is switched on when haze is being produced, the haze passes through the bubble wands to fill each bubble with fog. This gives a cloudy white appearance to the bubbles and produces a small “puff of smoke” when each bubble pops.

Alongside the combined effect, the ORB-400 can perform separately as a fully functional haze or bubble machine by simply switching off the function that is not required.

Specifications

Power supply	230Vac, 50Hz (IEC)
Bubble remote control frequency	433MHz
Haze remote control functions	Timer, Continuous, Manual, Interval, Output, Duration
Haze fluid tank capacity	2.3 litres
Heating element	400W
Heat-up time	4 – 5 minutes
Dimensions	300 x 260 x 645mm
Weight	10.15kg

Troubleshooting

Warning: Hot components! ... Switch off and allow to cool before touching the unit.

No light on mains switch	Check mains voltage is correct and socket is switched on
	Check IEC lead is OK and connected properly
	Check mains fuse in IEC connector and fuse in plug top
	If fuse blowing repeatedly, refer to qualified service personnel
Ready light stays off	Check remote is connected properly
	If light is permanently off, refer to qualified service personnel
Ready light is on but no haze output on manual or continuous	Check fog fluid level
	If fluid is OK and pump working, the lines may be blocked
	Check that nozzle is not blocked or obstructed
	If blocked, clean with fog machine cleaner & distilled water
No haze output on timer function	Ensure timer button is pressed in and timer LED is lit
	Check interval, duration and output control settings – test manually if necessary
No bubble output	Ensure bubble fluid level is enough to cover the wands as they turn through the bath
	Check bubble wand wheel is turning – press button on keyfob remote to activate
	If keyfob remote doesn't work, check button cell inside and replace if necessary
	Check that the wireless receiver is plugged in correctly



Disposal: The "Crossed Wheelie Bin" symbol on the product means that the product is classed as Electrical or Electronic equipment and should not be disposed with other household or commercial waste at the end of its useful life. The goods must be disposed of according to your local council guidelines

*Errors and omissions excepted.
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Effects Fluid Chart

Bubble Fluid							
Stock Code	Volume	Description	Results			For use with	
160.574UK	1 Litre	Bubble fluid	Light, long-lasting bubbles			160.462UK, 160.560UK	
160.575UK	5 Litre					160.562UK, 160.563UK	
160.576UK	1 Litre	UV bubble fluid	Light bubbles which glow in UV light			160.564UK	
160.577UK	5 Litre						
Snow Fluid							
Stock Code	Volume	Description	Results			For use with	
160.578UK	1 Litre	Snow fluid	High quality snow fluid. Lasts 30% longer than other standard fluids			160.565UK, 160.569UK	
160.579UK	5 Litre						
Fog Fluid							
Stock Code	Volume	Description	Colour	Results			For use with
160.643UK	1 Litre	Standard fog fluid	Yellow	Dispersion	Density	Stability	160.452UK, 160.453UK, 160.461UK or any machine up to 900W
160.582UK	5 Litre			Quick	Light	Low	
160.587UK	1 Litre	High grade fog fluid	Orange	Slow	Medium	Good	
160.588UK	5 Litre						
160.644UK	1 Litre	High quality fog fluid	Pink	Slow	High	Good	160.455UK, 160.456UK, 160.457UK
160.583UK	5 Litre						
160.589UK	5 Litre	Premium fog fluid	Clear	Slow	Very high	Excellent	or any machine 1000-1500W
160.592UK	1 Litre	Low level fog fluid	Clear	Slow	Highest	Excellent	160.447UK
160.593UK	5 Litre						
160.670UK	20ml	Fog machine cleaner	Clear	Extends life of your fog machine			All fog machines
Haze							
Stock Code	Volume	Description	Colour	Results			For use with
160.590UK	1 Litre	High quality haze fluid	Clear	Dispersion	Density	Stability	160.458UK, 160.459UK 160.462UK, 160.465UK
160.591UK	5 Litre			Slow	High	Good	