

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.

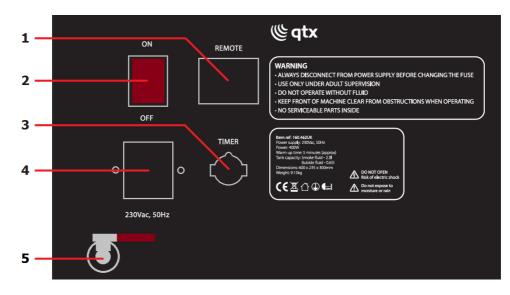
Safety

- 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.

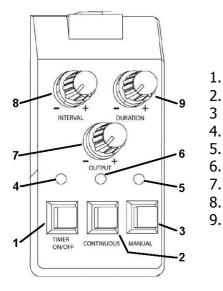
- Unscrew the top cap of the haze fluid tank and remove to fill with the selected haze fluid
- Replace the cap and close securely, ensuring the pipe is fed down to the bottom of the bottle so that a consistent flow of fluid is supplied to the machine
- Connect the remote timer control to the 5-pin DIN 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



- Timer button (latching) activates the timer control
- 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
 - 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
 - Interval control adjusts the interval between haze output on timer control
 - 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.

	Check mains voltage is correct and socket is switched on
No light on mains	Check IEC lead is OK and connected properly
switch	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
Reduy light stays on	If light is permanently off, refer to qualified service personnel
Ready light is on but	Check fog fluid level
no haze output on	If fluid is OK and pump working, the lines may be blocked
manual or	Check that nozzle is not blocked or obstructed
continuous	If blocked, clean with fog machine cleaner & distilled water
No haze output on	Ensure timer button is pressed in and timer LED is lit
timer function	Check interval, duration and output control settings – test manually if necessary
	Ensure bubble fluid level is enough to cover the wands as they turn through the bath
No bubble output	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

CE 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. Copyright© 2013. AVSL Group Ltd.

Buthle Fluid Image Image Even Image For use with Stock cole Volume Description Image Light long-lasting bubbles For use with 10.575/4K 1 Litre Uvbbble fluid Light long-lasting bubbles Image Image 10.575/4K 1 Litre Uvbbble fluid Image Light long-lasting bubbles Image Image 10.573/4K 1 Litre Vvbbble fluid Image Image Light long-lasting bubbles Image Image 10.6.573/4K 1 Litre Vvbbble fluid Image Image Image Image Image 10.6.573/4K 1 Litre Vvbbble fluid Image	修 qtx	_			Effects	Effects Fluid Chart	ť		
	Bubble Fluid								
574LK Litte Bubble fluid 57UK Litte Vu bubble fluid 67UK Litte Nu bubble fluid 67UK Litte Accorde Num Description Interestrate 57UK Litte Accorde Num Description Interestrate 57UK Litte Accorde 57UK Litte Accorde 57UK Litte Accorde 57UK Litte Accorde 63UK Litte Bescription Color 63UK Litte Bescription Color Num 63UK Litte Bescription Color Num 63UK Litte Bescription Color Num Socide 63UK Litte High grade fog fl	Stock Code	Volume	Description			Res	ults		For use with
575UK 51thre OV bloble fluid Light bubbles which glow in UV light 577UK 1 Litre Vy bubble fluid Light bubbles which glow in UV light 577UK 1 Litre Vy bubble fluid Executes Executes 570LK 1 Litre Description High quality snow fluid. Executes Executes 579UK 1 Litre Description High quality snow fluid. High quality snow fluid. Executes 579UK 1 Litre Description Colour Description Colour Description Colour 643UK 1 Litre Standard fog fluid Vellow Quick Light Low White 552UK 1 Litre High quality fog fluid Pink Standard fluids Mite 552UK 1 Litre High quality fog fluid Pink Medium Good Mhite 552UK 1 Litre High quality fog fluid Pink Low Modium Good Mhite 552UK 1 Litre High quality fog fluid Pink Slow	160.574UK	1 Litre	- Bubble fluid			Light, long-la:	sting bubbles		160.462UK. 160.560UK
576UK 1 Litre Vy bubble fluid I ght bubbles which glow in UV light 577UK 5 Littre Vo bubble fluid I ght value I got value	160.575UK	5 Littre				0	0		160.562UK, 160.563UK
57/UK 5 Little Results Results <t< td=""><td>160.576UK</td><td>1 Litre</td><td>- UV bubble fluid</td><td></td><td></td><td>Light bubbles which</td><td>ch glow in UV ligh</td><td>t</td><td>160.564UK</td></t<>	160.576UK	1 Litre	- UV bubble fluid			Light bubbles which	ch glow in UV ligh	t	160.564UK
HuidFerloResultsASSUKUoumeDescriptionResultsResultsSTBUKLittreDescriptionFigh quality snow fluid.Lasts 30% longer than other standard fluidsSTBUKS LittreSnow fluidFigh quality snow fluid.Lasts 30% longer than other standard fluidsSTBUKS LittreStandard fog fluidColourNoumeSSUKLittreStandard fog fluidColourNorkeSSUKS LittreStandard fog fluidVellowOutickLightSSUKS LittreHigh quality fog fluidPremium fog fluidPremium fog fluidNohiteSSUKS LittreHigh quality fog fluidPremium fog fluidPremium fog fluidPremium fog fluidPremium fog fluidSSUKS LittrePigh quality fog fluidPinkSlowNediumGoodThick whiteSSUKS LittreHigh quality fog fluidPinkSlowHigh fighGoodThick whiteSSUKS LittrePise fluidPinkSlowHigh fighPooque WhiteDispuseSSUKS LittrePise fluidPinkSlowHigh fighPooque WhiteSSUKS LittrePise fluidPise fighPise fighPooque WhiteSSUKS LittrePise fluidPise fighPise fighPooque WhiteSSUKS LittrePise fluidPise fighPise fighPise fighPise fighSSUKS LittrePise fluidPise fighPise fighPi	160.577UK	5 Littre)		
K code Volume Description Results 578UK 1 Litre Snow fluid High quality snow fluid.Lasts 30% longer than other standard fluids 579UK 5 Littre Boscription High quality snow fluid.Lasts 30% longer than other standard fluids 579UK 5 Littre Description Colour Essults Fog colour 643UK 1 Litre Standard fog fluid Yellow Quick Light Low White 582UK 5 Littre Bigh quality fog fluid Pink Slow Medium Good Thick white 582UK 5 Littre High quality fog fluid Pink Slow Medium Good Thick white 583UK 5 Littre High quality fog fluid Pink Slow Medium Good Thick white 583UK 5 Littre Nigh quality fog fluid Pink Slow Medium Good Thick white 592UK 1 Littre Nigh quality fog fluid Clear Slow Nery high Good Thick white 593UK <td>now Fluid</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	now Fluid								
57BUK 1 Litre Brow fluid High quality snow fluid.Lasts 30% longer than other standard fluids 579UK 5 Littre 5 Littre F I Code F I Code <td< td=""><td>Stock Code</td><td>Volume</td><td>Description</td><td></td><td></td><td>Res</td><td>ults</td><td></td><td>For use with</td></td<>	Stock Code	Volume	Description			Res	ults		For use with
579UK 5 Little Description Dispersion Results	160.578UK	1 Litre	Cnow fluid		Ligh cuality cos	1 acts 20%	Conter than other	r ctandard fluide	160 5651 וע 160 5601 וע
InidiInitResultsResultsck CodeVolumeDescriptionColourDispersionDensityFog colour643UK1 LitreStandard fog fluidVellowDispersionDensityFog colour643UK1 LitreStandard fog fluidVellowOuickLightLowWhite582UK5 LittreHigh grade fog fluidColoueSlowMediumGoodWhite582UK5 LittreHigh quality fog fluidCrangeSlowMediumGoodThick white583UK5 LittreHigh quality fog fluidCrangeSlowHighGoodThick white583UK5 LittrePremium fog fluidClearSlowWeiy highGoodThick white583UK5 LittrePremium fog fluidClearSlowHigh esc ellentOpaque White583UK5 LittreLittreLow level fog fluidClearSlowHigh esc ellentOpaque White532UK1 LittreLittreLow level fog fluidClearSlowHigh esc ellentOpaque White532UK2 UnitFog machine cleanerClearSlowHigh esc ellentOpaque White532UK1 LittreLittreLittreLowColourClearSlowHigh esc ellentPaque White532UK2 UnitFog machine cleanerClearSlowHigh esc ellentClearSlowHigh esc ellentPague White532UK1 LittreHigh quality h	160.579UK	5 Littre			וווצוו לחמוורל פווי				NOCOCIONT NOCOCIONT
K code Volume Description Colour Results Results Feg colour Feg colour Feg colour Feg colour Stability Fog colour Mite Stability Fog colour Mite Stability Fog colour Mite	og Fluid								
Actual (643UK)DensityDensityStabilityFog colour643UK111	Ctack Cada	Molumo	Docerintion	Colour		Res	ults		For use with
	אוטנא בטעב		neaupunu	COLORI	Dispersion	Density	Stability	Fog colour	
S82UK 5 Littre Demotors D	160.643UK	1 Litre	Standard fog fluid	Vellow	2011C	Light	MO	White	160 45211K 160 45311K
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	160.582UK	5 Littre			THE P				VIDECTION VIDECTION
S8UK5 LittleTight guality fog fluidDefinitDefinitDefinitDefinitDefinitDefinit 644 UK1 LittleHigh quality fog fluidPinkSlowHighGoodThick white 583 UK5 LittlePremium fog fluidClearSlowVery highExcellentOpaque White 583 UK5 LittlePremium fog fluidClearSlowVery highExcellentOpaque White 592 UK1 LittleLow level fog fluidClearSlowWery highExcellentOpaque White 592 UK2 UmlFog machine cleanerClearSlowHighestExcellentOpaque White 592 UK2 UmlFog machine cleanerClearSlowHighestExcellentOpaque White 592 UK2 UmlFog machine cleanerClearSlowHighestExcellentPaque White 590 UK1 LitteHigh quality haze fluidClearSlowHighGoodThick white 500 UK1 LitteHigh quality haze fluidClearSlowHighGoodThick white	160.587UK	1 Litre	High grade fog fluid	Orange		Medium	eood	White	or any machine IIn to 900M
$ \begin{array}{ c c c c c } \hline \mbox{High} & \mbox{High} & \mbox{High} & \mbox{High} & \mbox{Good} & \mbox{Thickwhite} \\ \hline \mbox{583UK} & \mbox{5.Litre} & \mbox{Figh} & \mbox{Figh} & \mbox{Good} & \mbox{Thickwhite} \\ \hline \mbox{583UK} & \mbox{5.Litre} & \mbox{Premium} & \mbo$	160.588UK	5 Littre					200		
SBUK 5 Litre District menun fog fluid Clear Slow Menun fog	160.644UK	1 Litre	High quality fog fluid	Dink	Slow	Hidh	eood	Thick white	160.455UK, 160.456UK,
SBUK 5 Litre Premium fog fluid Clear Slow Very high Excellent Opaque White 592UK 1 Litre Low level fog fluid Clear Slow Highest Excellent Opaque White 593UK 5 Litre Low level fog fluid Clear Slow Highest Excellent Opaque White 670UK 20ml Fog machine cleaner Clear Slow Highest Excellent Opaque White 670UK 20ml Fog machine cleaner Clear Slow Highest Excellent Opaque White 670UK Um Fog machine cleaner Clear Slow Highest Excellent Paque White 670UK Um Fog machine Clear Slow Highest Excellent Paque White 670UK 1 Litre High quality haze fluid Clear Slow High Good Thick white 591UK 5 Littre High quality haze fluid Clear Slow High Good Thick white	160.583UK	5 Litre	יוופון אממונין וספוומומ			0	0		160.457UK
592UK 1 Litre Low level fog fluid Clear Slow Highest Excellent Opaque White 593UK 5 Litre 6 Litre Clear Slow Highest Excellent Opaque White 670UK 20ml Fog machine cleaner Clear Clear Clear Extends life of your fog machine Image: Clear Opaque White 670UK 20ml Fog machine cleaner Clear Clear Clear Extends life of your fog machine Image: Clear	160.589UK	5 Litre	Premium fog fluid	Clear	Slow	Very high	Excellent	Opaque White	or any machine 1000-1500W
Selute Description Clear Description Clear Description Description Description Colour Description C	160.592UK	1 Litre	I nw level fog fluid	Clear	Slow	Higheet	Evcellant	Onadiile White	160 AA7I IK
670UK 20ml Fog machine cleaner Clear Clear Extends life of your fog machine ck Code Volume Description Colour Dispersion Density Haze colour 590UK 1 Litre High quality haze fluid Clear Slow High Thick white	160.593UK	5 Litre				0		chadae mile	
ck Code Volume Description Colour Colour Bispersion Density Haze colour 590UK 1 Litre High quality haze fluid Clear Slow High Thick white	160.670UK	20ml	Fog machine cleaner	Clear		Extends life of y	our fog machine		All fog machines
Prolume Description Colour Results 1 Litre High quality haze fluid Clear Slow High High quality haze fluid High quality haze fluid High	laze								
e volume volume volume volume volume Haze colour 1 Litre High quality haze fluid Clear Slow High Good Thick white	Ctoole Code	Wohnoo	Description	Colour		Res	ults		Cor unce unith
1 Litre High quality haze fluid Clear Slow High Good Thick white	SLOCK COUR	Nomine	nonquosad	COLOUI	Dispersion	Density	Stability	Haze colour	
	160.590UK 160.591UK	1 Litre 5 Littre	 High quality haze fluid 	Clear	Slow	High	Good	Thick white	160.458UK, 160.459UK 160.462UK, 160.465UK