

THE AIRDRI STERASPACE WASHROOM PWA10/20/30 INSTRUCTION MANUAL

The most advanced virus and bacteria
control technology of its kind



Please read prior to installing
your new unit
SAVE THESE INSTRUCTIONS



**DO NOT LOOK DIRECTLY AT THE LAMP
WHEN IN OPERATION**

UV Radiation is very harmful to eyes and skin.
Strictly observe the instructions.

LEAF0429 ISS 04

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If you are unsure about
any instructions or have a
problem not listed above
contact manufacturer:

Airdri Limited,
Technology House, Oakfield Estate,
Eynsham, Oxford OX29 4AQ, UK.
Tel: +44 (0)1865 882330
sales@airdri.com
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SAFETY INFORMATION

WARNING: Always ensure power is disconnected prior to carrying out any work. Should the unit become damaged in any way disconnect power and contact manufacturer.

Electrical Safety

Installation work must conform to all national electrical regulations and should not be undertaken by unqualified individuals. If you are unsure about any details please contact Airdri prior to beginning work.

Ozone Safety

The majority of Airdri units generate low level ozone. In every case the levels of ozone present will fall below the lowest international safety levels when utilized in line with operational guidelines.

Levels of ozone within an environment will be directly impacted by the level of contamination (odours/micro-organisms) and the number of air changes per hour (number of times the entire air volume of the area is replaced). The higher the contamination or greater the number of air changes the lower remaining ozone levels will be.

In a commercial washroom we would expect a minimum of 8 to 12 air changes per hour. Airdri calculates ozone levels against 3 air changes per hour in a "clean" environment, so that even in rooms with less than adequate airflow we can ensure safety.

In significantly smaller areas - rooms with less than 3 changes per hour or an alternative ozone source - please contact manufacturer for guidance.

Air Sanitising System	Ozone Output (mg per hour)	Room Area (m ²)	Room Volume (m ³)	3 air changes per hour (ppm)
PWA10	18	10	25	<0.04
PWA20	27	20	50	<0.03
PWA30	54	30	75	<0.04

Reduced or 0mg lamp options are available for all models if required. Please ask for details.

Ultraviolet Light Safety

Under no circumstances remove cover or look at UV lamp when in operation. The high intensity Ultraviolet light within an Airdri unit is enclosed within the internal chamber so there is no risk of exposure during normal operation.



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NOTE: Do not touch the glass portion of the UV lamp or surrounding catalyst plates with bare hands. Use clean gloves to avoid skin oils that will harm the UV lamp. If the lamp is touched in error clean with an alcohol based cleaner.

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TROUBLESHOOTING

WARNING: Always ensure power is disconnected prior to carrying out any work.

Problem : The unit is not functioning

Solution : Ensure the power supply is connected and working properly. Check the internal plug is fully inserted.

Problem : The lamp is not on

Solution : Ensure lamp is fully inserted into socket. Contact manufacturer for advice.

Problem : Excessive metallic/electrical odour produced by unit

Solution : This is harmless and quite normal during the first 48 hours of operation. If it continues beyond that time contact manufacturer for advice.

Problem : Airflow is weak through the unit

Solution : Check for blockages at either end of the unit. Follow instruction on cleaning the unit.

Problem : Unit appears to be working correctly but odours remain

Solution : Follow instruction on cleaning the unit. Replace or upgrade the lamp in the unit. Contact manufacturer for advice.

Problem : When first installed the odours were cleared but now they have returned

Solution : Follow instruction on cleaning the unit. Replace or upgrade the lamp in the unit.

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FITTING INSTRUCTIONS

WARNING: always ensure power is disconnected prior to carrying out any work.

WARNING: under no circumstances look at the lamp when in operation.

NOTE: Do not touch the glass portion of the UV lamp or surrounding catalyst plates with bare hands. Use clean gloves to avoid skin oils that will harm the UV lamp. If the lamp is touched in error clean with an alcohol based cleaner.

Optimum Installation Conditions

- **The SteraSpace Washroom unit is designed to be installed in washroom environments. It is not recommended to install this unit in any other type of space.**
- To work effectively the installation height must be at least 1.8 metres.
- The unit operates most efficiently when installed close to any strong inward airflow and away from any outgoing air source.
- An ideal location is close to the main source of odour (i.e. urinals or toilets).
- The unit must be mounted vertically. This allows thermal convection to disperse cleaning air throughout the facility. Performance would be significantly impacted by horizontal mounting.
- Optimum wall mounted performance is obtained by mounting with the power cord end at the top of the unit.
- Place/install in an unobstructed location and allow 100mm clearance around the top and bottom vents.
- Each unit variation is set to cover anticipated commercial washroom contamination and odour levels at 10m², 20m² and 30m² respectively.
- For smaller washrooms such as individual cubicle facilities or those with poor airflow, a lower power lamp can be purchased if necessary.
- Any serious plumbing issues within a facility such as leaking water or sewer gas must be resolved to avoid potential health problems.

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Always mount the unit vertically

1. Ensure all power to the unit and intended electrical supply is disconnected.
2. Loosen the screws at each end of the front cover (they do not come out completely).
3. Remove the front cover to expose fixing holes in rear of unit. Be careful to avoid touching the lamp or surrounding catalyst plates.
4. Locate the fixing holes. Mark the intended position of unit on the wall. Ensuring there are no obstructions and sufficient space for servicing and airflow around the unit. Remember the unit must be mounted vertically.
5. Remove unit from area, then drill holes.
6. Fix the unit in place using suitable fixings. The unit should be held firmly in place with four fixing points.
7. Replace the cover and re-tighten screws at each end.
8. Connect power to the unit. Check the central indicator lights up to show the lamp is operational.



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SERVICE / LAMP CHANGING INSTRUCTIONS

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WARNING: under no circumstances look at the lamp when in operation.

NOTE: Do not touch the glass portion of the UV lamp with bare hands. Use clean gloves to avoid skin oils that will harm the UV lamp.

NOTE: Use only original Airdri UV lamps. Other lamps will be incompatible and may damage the air sanitising unit.

1. Ensure all power to the unit and intended electrical supply is disconnected.
2. Loosen the screws at each end of the front cover (they do not come out completely).
3. Remove the front cover. Be careful to avoid touching the lamp or surrounding catalyst plates.
4. Clear any dust and debris from within the unit and the front cover at this point. A soft brush is usually sufficient.
5. Wearing gloves or using a protective cloth, hold the lamp in one hand and the lamp holder in the other. The lamp will pull out. The replacement lamp will then push into place by reversing the process.
6. Replace the cover and re-tighten screws at each end.
7. Connect power to the unit, check the central indicator lights up to show the lamp is operational.



ELECTRICAL INFORMATION

Units can be wired into a circuit via a switched fused spur with an appropriate fuse. It is essential that the unit is installed so the power can be turned off prior to carrying out any maintenance work.

As the unit operates continuously it needs to be supplied with a permanent feed such as via a switched fused spur with a dedicated electrical supply or an emergency light supply.

Unit power cable colours are Brown for Live and Blue for Neutral.

TECHNICAL SPECIFICATIONS

Air sanitising technology	Nano-titanium dioxide photocatalytic oxidation + Ultraviolet light UV-C
Dimensions	400mm(L) x 125mm(W) x 90mm(D)
Unit Weight	0.9kg
Voltage	220-230V
Frequency	50/60Hz
Power consumption	10W
Suggested covering area (m ²)	10/20/30
Installation	Wall mount 1.8 metres from the ground level
Housing colour	Titanium colour/White colour
Operation	Continuous indicated by lamp. Requires annual lamp change



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