



# USER MANUAL

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Spray Booth

CORALTEC INC.

# User Guide

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© CORALTEC INC.

130 Konrad Crescent • Suite 11

Markham, ON L3R 0G5, Canada

Phone 1.844.604.6234 • Email [support@spraysizer.com](mailto:support@spraysizer.com) • Web: [www.spraysizer.com](http://www.spraysizer.com)

Manual Release Date: February 2015

Manual Version: V1.0

# 1 Operation Procedure

The spray booth is a closed circuit system that does not require to be connected to an external water supply. However, the following steps should be followed to use the system:

1. Install your desired nozzle on the system. If the system is used for demonstration purposes, use a nozzle which produces a full cone spray with medium spray angle. The nozzle thread must be 1/4" NPT.
2. There are two valves in the system labeled as 1 and 2. Valve 1 is for draining the system and valve 2 is connected to the nozzle. To use the system, valve number 1 should be in closed position and valve number 2 should be in open position
3. The pump is required to be wired prior using the system. The input power to the pump should **12VDC with maximum current of 10A.**
4. Pour at least 4 litres of water in to the sink. The system is closed loop and it requires initial water supply for operation.
5. Place the device under the spray and prepare it for operation as described in the device manual.



**Warning:** Do not use any nozzle that the total length of the body of the nozzle including the thread exceeds 1 inch, since the nozzle tip becomes too close to the device.

## OPERATION PROCEDURE

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6. The system is ready for operation. Connect the power supply to run the system and start the measurement.

The system can be used for several measurements and demonstrations. However the following steps should be followed to safely store the spray booth for future use:

1. Turn off the spray by cutting the electricity supply to the system.
2. Put the tip of the thin white hose into a proper container to empty the water in the system.
3. Open valve number 1 and close valve number 2.
4. Run the pump to empty the water inside the system into the container.
5. Once the water is drained, clean the system with a soft cloth and carefully put it back into its protective case.



**Warning:** Never run the pump while both valves are closed or when there is no water in the system.

It is recommended to carry the system with the help of a second person due to the high weight of the system. Preferably handle the system by grabbing the plastic handles on top or the aluminum bars. Avoid mechanical impacts since they can cause minor damages to the sink.



**Note:** Never handle the system by grabbing the steel tubes.

## OPERATION PROCEDURE

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Every once in a while inspect beneath the black sink to ensure that there is no leak in the system caused by mechanical impacts.

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## TERMS OF USE

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## TERMS OF USE

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