

Cincinnati IR Water Maze

User Guide

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SAFETY CONSIDERATIONS

Although this instrument has been designed with international safety standards, it contains information, cautions and warnings which must be followed to ensure safe operation and to retain the instrument in safe conditions.

Service and adjustments should be carried out by qualified personnel, authorized by Ugo Basile organization.

Any adjustment, maintenance and repair of the powered instrument should be avoided as much as possible and, when inevitable, should be carried out by a skilled person who is aware of the hazard involved.

Capacitors inside the instrument may still be charged even if the instrument has been disconnected from its source of supply.

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1. Product features and general information

This apparatus is designed for the Cincinnati water maze test for rats; all the maze walls are built in IR transparent Perspex material to let an above positioned camera for video tracking, having the possibility to avoid walls shadows tracking the animal inside the maze.

A starting/habituation basin is positioned at one maze end, which provides a manually activated door to let the animal enter the maze and start the test.

The basin of the apparatus is made to facilitate the water drain and it is inclined the drain holes, while the maze base plates (2) are positioned to compensate the basin floor inclination.

2. What's in the box

The apparatus package comes with all the necessary parts already assembled. Each part of the maze is marked with a label to easily re-positioning all the parts after a dismantle for cleaning.

Main components:

- Metallic grey base with breakable wheels
- Maze water proof basin
- All the maze walls component.
- Two overflow pipes to set the fluid level at 200 or 300 mm from the maze flow (the 200 mm is in place)
- 1 teflon roll to be used for the overflow pipes when changing them
- 4 mt of drain tube.

The Cincinnati IR Water Maze includes the following parts:

- Metallic grey base with wheels (with mechanical brakes) that contains the basin and the maze.
- Maze water proof basin made in PVC plastic, which is designed to contain the water or fluid You need to use for the experiment, with 2 drains taps provided on one side only.
One overflow pipe (200 mm fluid level, measured from the maze base, not from the basin base)
2 base plates where the maze component stand, provided by some plastic positioning pins that facilitate the maze component positioning.
- All the maze walls component parts ar marked by a label.

3. Installation

3.1. Intended Use

The Cincinnati IR Water Maze is intended for

Investigation use on laboratory animal (rats) only.

DO NOT USE ON HUMANS.

3.2. Additional Safety Consideration

1. An overflow pipe is provided, do not obstruct the overflow pipe hole
2. Use original accessories and spare parts only.
3. Do not obstruct draining holes.
4. Do not operate in hazardous environment or outside prescribed environmental limitation.
5. Allays provide drain tube attached to the drain taps that end in a drain tank or a drain exhaust.
6. Do not use electrical devices close to the water/fluid.

Ugo Basile cannot in any way and form be held responsible for damage caused to things and people and warranty will be void, due to:

- Incorrect installation procedure.
- Incorrect or improper use or, in any case, not in accordance with the purpose for which the instrument has been designed and the warnings stated in the instruction manual supplied with the instrument.
- Replacement of original component, accessories or parts with others not made by Ugo Basile.
- Servicing carried out by unauthorized personnel.

3.3. Positioning the system

Place the apparatus in a Lab room with the following characteristics:

- Flat floor surface
- A water inlet with a pipe to be used for filling up the basin
- A water drainage
- Room enough to hold the apparatus and leave at least 1mt free space on all sides.

System dimensions are: Width: 208 cm (6.82 ft), Length 218 cm (7.15 ft) cm, Height 88 cm (2.88 ft)

3.4. Connections

Only one drain pipe needs to be connected to the water/fluid exhaust, the overflow pipe inside the basin is connected to the main drain, where You have 2 taps to control drain.

Water/fluid going out the basin via the overflow top hole is not controlled by the drain taps, so connect it to the water exhaust.

Use proper hose clamps to connect the pipes to the taps to avoid water/fluid leaks.

3.5. Placing maze components

All the maze components are already in place when You receive the apparatus. Please check the correct positioning referring to the maze drawing.

In case of incorrect position of one or more maze component You can move them by hands while component are not fixed to the base plates.

A series of plastic pins are attached to the maze base to maintain maze parts in position; they are screwed to the maze base by stainless still screws.

If You find yourself unable to positioning one or more maze component You may need to unscrew (not remove) the upper pin screw to facilitate the maze component positioning, and once the component is in the correct position screw the pin to fix it in position. (do not over-tighten the screw).

To start the first test, You just need to check the correct maze part positioning and fill the basin with water/fluid at the level you desire.

3.6. Filling up the basin

Basin needs to be filled by water or fluid (depending of Your scientific procedure) at the temperature You plan to.

Filling up the basin need to be done manually by using a not provided pipe water/fluid connected.

Fill the basin with the desired fluid at the desired temperature.

Level is automatically set by the one of the two overflow pipes provided with the apparatus.

As standard in the factory we mount the 200 mm water/fluid overflow pipe, which ensure that filling the basin you can not over fill.

A second overflow pipe is provided to set the level at 300 mm above the maze floor.

Overflow pipe measurement are referred to the maze component plates, which means they control the real level of water/fluid where the animal will swim during the experiment.

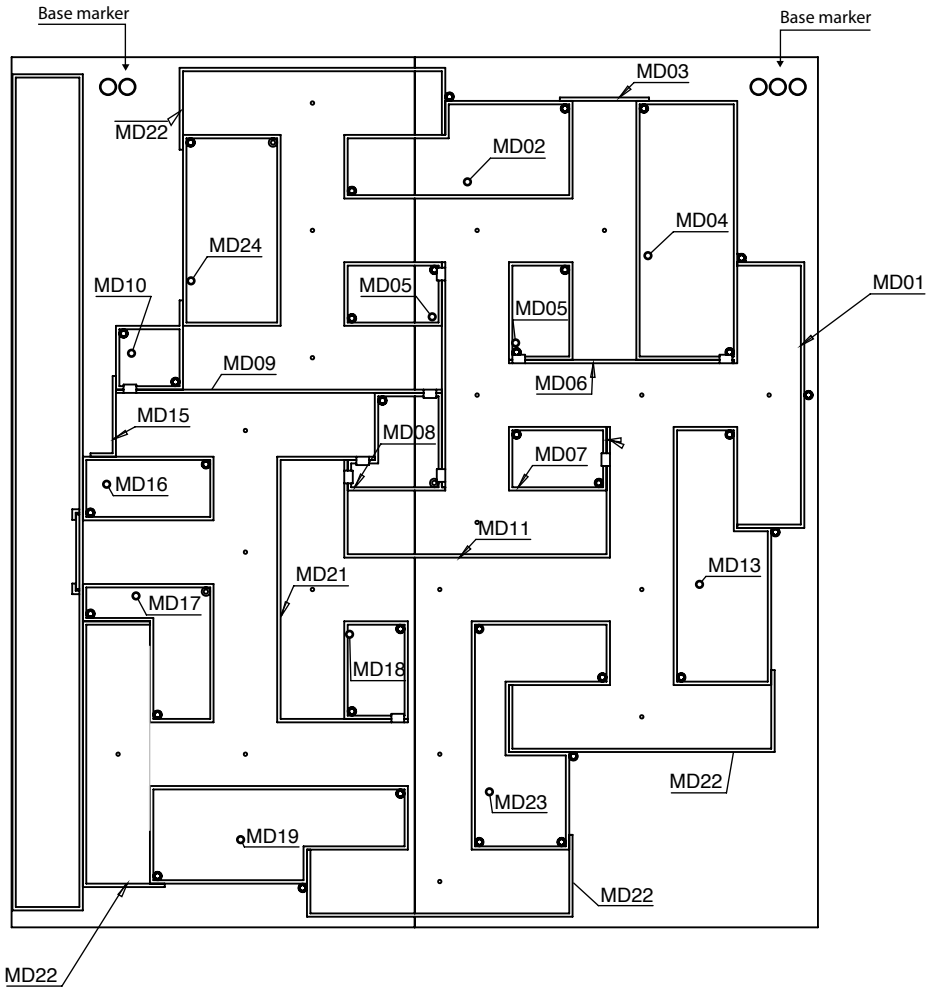
BEFORE STARTING FILLING THE BASIN MAKE SURE THE 2 DRAIN TAPS ARE CLOSED AND THE OVERFLOW PIPE CONNECTED TO A FLUID EXHAUST LINE

4. Cleaning

You May decide to clean the system without de-mounting the maze for frequent cleaning and de-mount the maze component for deep cleaning before storing the system for long inactivity.

When emptying the internal basin water/fluid, consider that not all the fluid will be drained by the pipes, some fluid may stays inside the basin and you need to remove it manually.

If You need to check the correct positioning of the maze components or you decide to de-mount the maze for deep cleaning and the need to re-mount, please see the next page drawing:



5. Specification

Physical

Width	218 cm (7.15 ft)
Length	208 cm (6.82 ft)
Height	88 cm (2.88)
Basin capacity	840 lt (222 gal)

For any inquiry/problem please write to service@ugobasile.com



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