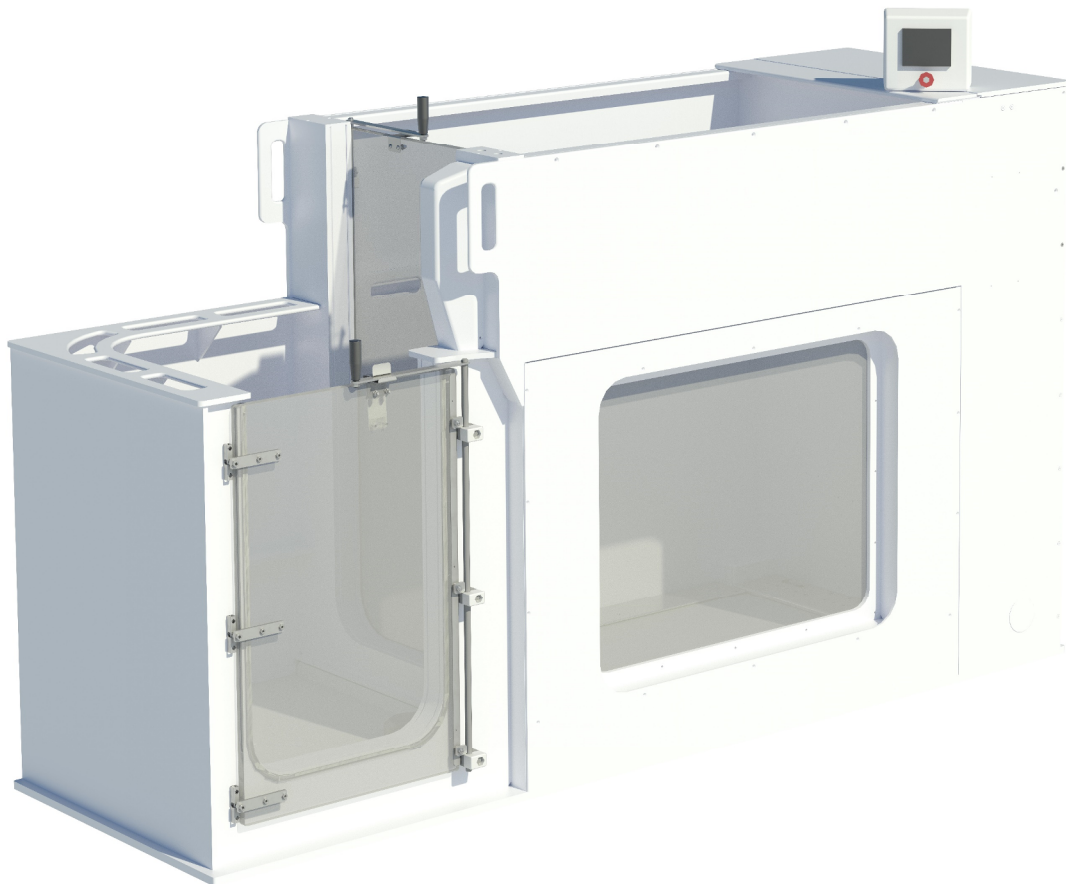


HYDROWORX

YOUR POTENTIAL  ACHIEVED

ECO

Design and Installation Manual



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1.0 Front Matter

1.1 Disclaimer and Confidentiality Notice

This manual is to assist architects, contractors and facility managers in preparing for and installing a HydroWorx ECO Hydrotherapy system. **All information contained in the guide is general and may not be applicable to every job site or installation.** HydroWorx cannot be held responsible for inaccurate information or omission of certain details relating to the site preparation or installation of the product. This manual is protected by US and International Copyright laws. Reproduction, distribution, display and use of content outside of designing for or installing a HydroWorx product is prohibited. **All drawings included in this guide are for example only and should not be used to create site-specific packages for the purpose of permit requests. All drawings are generic in nature.**

1.2 Product Description

The HydroWorx ECO is a permanently connected, self-contained hydrotherapy system constructed of a welded polypropylene structure with acrylic windows and doors. It incorporates a treadmill, variable water depth, handrails, touch screen controls, and a water recirculation system (pump, filter, sanitizer, heater). It is designed to be installed in an existing therapy room.

1.3 Regulatory and Code Compliance

As regulatory and code requirements vary significantly from state to state and even between local jurisdictional agencies, permitting and compliance with state and local provisions relative to health, pool/spa, building, electrical, plumbing, mechanical, safety, etc. is the responsibility of the owner. **It is critical that the owner and/or their authorized design representative consult with the agencies having jurisdiction to ensure compliance with applicable regulatory and code requirements.** Contact HydroWorx immediately should regulatory or code circumstances arise.

2.0 Installation (By Others)

This unit is supply only, therefore it is very important to consider all aspects of the installation site, including:

- Access & Serviceability
- Site Preparation
- Hydrotherapy Room
- Utility Requirements

2.1 Access & Serviceability

Minimum architectural, structural, mechanical, electrical, and plumbing design criteria identified in this design and installation guide must be maintained for functionality and serviceability of the unit and shall be required to maintain a HydroWorx service agreement and warranty. If the system is installed with less than the minimum requirements, there may be additional charges for equipment and labor required to reposition the unit for service in the event a warranty or service visit is required. Please contact HydroWorx if any part of the design does not meet HydroWorx's required minimums. Your product may be subject to increased design fees as well as a voided warranty. Refer to Appendix A for clearances.

Having a clear unobstructed access route from the point of unloading to the place of installation is critical and is often overlooked. The unit is approximately 3' w x 9' l x 6' h and weighs 1500lb. Moving equipment such as dollies or pallet jacks need to be considered in the access route as well. If the unit cannot be installed due to obstructions, it may cause a postponement and redeployment of technicians at owners' expense!

2.2 Site Preparation

The owner, owner's representative, and/or the owner's contractor is responsible for preparation of the site prior to delivery & installation. The final location of the system, including the routing and connection of all utilities—incoming power, water, sanitary, etc.—required for system operation must be designed and installed by the owner, owner's representative, and/or the owner's contractor.

2.3 Hydrotherapy Room

The HydroWorx ECO is designed to accommodate one person during treatment sessions and a therapist in the room for supervision. The room shall allow adequate installation and future service space around and above the device. Refer to Appendix A for clearances. Additional space may be required for dehumidification systems, cabinetry, storage, showers, changing rooms, etc.

2.3.1 Hydrotherapy Room Floor Requirements

The finished floor **MUST** be flat/level within an 1/8" over 10' where the ECO is placed. **HydroWorx is not responsible for damage to the device resulting from improperly prepared floor surfaces.** Flooring should be non-slip. Carpet is not recommended. During use water may splash out of the unit onto the floor. Patients will also drip water when exiting the unit.

The devices structural weight is 1500 pounds when empty and 5200 pounds when in use. This weight will be bearing on the hydrotherapy room floor therefore a structural engineer should be consulted to determine structural requirements for the floor.

Floor or perimeter drains should be incorporated into the design of the hydrotherapy area. One should be placed at the left front corner of the unit and one should be placed at the entry/exit of the unit.

2.3.2 HVAC/Air Temp Requirements

Adequate airflow, temperature control, and dehumidification should be incorporated into the hydrotherapy room to maintain a comfortable environment for the occupants, and to protect the unit. The water is generally kept between 92-94 degrees Fahrenheit. Hydrotherapy rooms are typically kept at 85 degrees Fahrenheit to keep the variance between the water and the ambient air temperature at a minimum. The ECO includes a floating cover. The cover is recommended to reduce heat loss and evaporation. Check with jurisdictional code requirements for minimum air exchange and humidity requirements.

2.4 Utility Requirements

2.4.1 Water Supply — The owner/contractor shall provide a ¾-inch diameter hose bib located in the hydrotherapy room, or within 50' of the ECO for cleaning and filling of the unit.

2.4.2 Electrical Service — The owner/contractor shall provide an electrical service drop with disconnect of 120/208-240V, 40A, 60Hz, single phase, 4-wire configuration (L1,L2,G,N). The disconnect shall be at least 5' from the unit and in line of site. GFCI protection is included in the ECO. Electrical drop should be fed from (1) dedicated double pole 40A non-GFCI breaker.

2.4.3 Sanitary — HydroWorx requires a method to drain the ECO. The owner/contractor should provide a floor drain for connection to the unit's drain line and a floor drain near the entry/exit of the unit. The design of the sanitary system shall accommodate the total volume of 440gal. A 2" pipe @ 60 GPM draining capacity is recommended. This 60 GPM is for the unit only and does not consider any domestic water lines. If the facility cannot have floor drains, then another drain location will need to be established such as a nearby utility sink. HydroWorx provides a utility pump and hose for this situation.

3.0 Scopes of Work

Contributions and effort from several different participants will be necessary to complete the installation. This section explains the details for each of the following:

3.1 Scopes of Work prior to Delivery

The Owner, Customer, or Customer's Representative may serve in the role of the General Contractor for the purpose of a HydroWorx installation.

3.1.1. General Contractor Scopes of Work

Typically, the general contractor is responsible for the following:

1. Obtaining any required permits and verifying regulatory and code compliance.
2. Creating construction/site specific drawings.
3. Ensuring that the hydrotherapy room is built according to both the (a) owner's design documents and (b) this HydroWorx Design & Installation Guide.
4. Ensuring an adequate access path from offload site to final installed position.
5. Hiring the trade specific contractors (mechanical, electrical, plumbing).

3.1.2 Plumbing Contractor Scope of Work

Typically, the plumbing contractor is responsible for the following:

1. Providing all labor, materials, and equipment necessary to install the floor drains in the hydrotherapy room.
2. Providing all labor, materials, and equipment necessary to install the water supply hose bib in the hydrotherapy room.

3.1.3 Electrical Contractor Scope of Work

Typically, the electrical contractor is responsible for the following:

1. Providing all labor, materials, and equipment necessary to install the electrical service with disconnect.

3.1.4 Mechanical Contractor Scope of Work

Typically, the mechanical contractor is responsible for the following:

1. Providing all labor, materials, and equipment for adequate heating, ventilation, air conditioning, and dehumidification of the hydrotherapy room.

3.1.5 HydroWorx Scope of Work

Typically, HydroWorx is responsible for the following:

1. Assisting in determining the best orientation of the unit in the customer's room.
2. Assisting in determining the best access path to install the unit.

3.2 Installation Scopes of Work

Several different participants are necessary to complete the installation. This section explains the details for each of the following:

3.2.1 General Contractor Scopes of Work

Typically, the general contractor is responsible for the following:

1. Scheduling and providing an access route from the point of delivery to the final location.
2. Provide all labor, materials, and equipment necessary to offload, move, and install the unit.
3. Perform system start-up and testing including the technical start-up with the customer.
4. Complete and return the Installation Quality Review Checklist and photos to HydroWorx.

3.2.2 Plumbing Contractor Scope of Work

Typically, the plumbing contractor is responsible for the following:

1. Providing all labor, materials, and equipment necessary to install the drain line from the ECO to the customer-supplied floor drain.

3.2.3 Electrical Contractor Scope of Work

Typically, the electrical contractor is responsible for the following:

1. Providing all labor, materials, and equipment necessary to make the final electrical connection to the unit. A 1.375" (1" trade size) hole is provided in the side of the unit.

3.2.4 HydroWorx Scope of Work

Hydroworx has no installation scope, as these units are sold as supply only.

Appendix A – Drawings and Illustrations

