Parts List

Hydraulic Treadmill Kit (supplied by Endless Pools)
1 Hydraulic Power Unit
1 Treadmill Body
2 Side Decks
1 Hardware Pack including 1” stainless steel screws and fender washers
2 Hydraulic Submersible Hoses
2 Thru Wall Fitting
2 Liquid Tite Fittings
1 Lower Standoff
1 Treadmill Shroud
2 Hydraulic Run Hoses (lengths specified by customer)
1 Teflon Tape
1 Belt Tension Tool

Tools Required (supplied by others)
Tape Measure
Power Drill
15/16” Wrench
File
#2 Phillips Head Screwdriver

Description
The Hydraulic Aquatic Treadmill allows you to enjoy a full walking or running workout without the pounding of land-based exercise. The Hydraulic Aquatic Treadmill offers a spacious 20” wide belt for walking or running. You expend as much or as little effort as desired and still achieve a great cardio workout.
Additional Considerations

The treadmill will require an additional 220v 30amp GFCI protected power supply (220v 30amp RCD protected power supply for UK and countries with similar power requirements).

If desired, the power unit can be fully enclosed for soundproofing purposes. There must be a minimum of 12 inches air space on all sides of the motor. The inside of the enclosure can be insulated as long as the minimum air space requirement is kept. Two louvered vents must be installed in the enclosure; each must be a minimum of 18 square inches. One vent must be installed within 6 inches of the ceiling of the enclosure. The other vent must be installed within 6 inches of the floor of the enclosure. It can be installed on a rubber mat or piece of rigid foam insulation on top of a concrete pad to lessen vibration transfer noise.

Typically, the power unit for the treadmill is remotely located. Endless Pools can provide additional lengths of hydraulic hoses to make the connection between the hoses coming through the pool wall and the power unit. Up to 25’ of additional hose comes with the treadmill. Longer hoses can be purchased for an additional charge. If the location of the power unit is not known, these hoses can ship via UPS after the pool and treadmill are shipped. Please allow at least a week for delivery.

Our underwater treadmills are typically installed in pools with 48” or 54” high panels. The front of the treadmill will be placed immediately below and adjacent to the propulsion housing so that the grab bar can be utilized.

The thru-wall fittings for the hydraulic hoses will go under the front base cap immediately to the left of the propulsion housing (as you are in the pool swimming). Additional holes will have to be drilled into the front panel for the through wall penetrations prior to installing the liner. Access will need to be maintained to the backside of the front panel so that all of the through wall penetrations can be accessed during the initial installation as well as for any future maintenance.

Installation Instructions

Treadmill Thru-Wall Penetrations

1) Follow the installation instructions, found in “Endless Pool Installation, Operations, and User’s Manual” up to step 9, “Optional Lights, Jets, and Liner Hangers.”

2) The holes for the two hydraulic lines will need to be drilled at this time. These holes will need to be 12” up from the bottom of the panel. The center point of the first hole should be a minimum of 15” to the right of the center of the panel (as you are behind the front panel facing the rear of the pool). The center of the next hole must be a minimum of 4” further right. The center point of either hole must be a minimum of 3” away from a z-brace or panel joint.

3) Continue with the installation of your pool up to step 12, “Cast Composite Internal Components.”
4) Prior to the installation of the internal components, the thru-wall penetrations for the treadmill will have to be installed. If not done so already, glue the PVC bushing reducer into the backside of the thru-wall fitting. Wrap Teflon tape around the threads of the liquid tite fitting and thread it into the bushing that was just glued into the through wall fitting.

5) Use a utility knife to cut the liner using the cutouts as your template. Once the holes are cut, install the through wall fittings. There should be a rubber gasket between the fitting and the liner on the inside of the pool and between the liner and the panel on the inside of the pool. The cork gasket should be between the panel and the lock nut of the through wall fitting. The lock nut of this fitting should only be hand tightened.

6) Before continuing with the installation of the internal components of the pool in step 12 of the Installation Instructions (found in the “Endless Pool Installation, Operations, and User’s Manual”), locate the front base faceplate found in your Pool Width Box.

7) On the back of this faceplate there will be a knockout. Lay the faceplate down so the knockout is facing up. Run a utility knife around the outside of the knockout and push center oval out. Use a file to clean away any burrs in the opening.

8) Continue with step 12 of the Installation Instructions. DO NOT install left base cap (this will be installed at a later step).

Belt Adjustment
The treadmill’s belt has been factory-adjusted for immediate use. Prior to installing, confirm that the belt’s tension has not been altered during shipment. Place your hand under the belt along the center of the treadmill body. You should be able to comfortably get your fingers between the belt and the platform.

Should the tension or alignment of the treadmill belt need adjustment, a belt tension tool has been provided. Turning the axle adjustment bolt (found at the rear of the treadmill on either side of the treadmill drum) clockwise will increase the belt tension and turning the adjustment screw counter-clockwise will decrease the belt tension. The rear axle should always be parallel to the front axle, make sure to turn each adjustment screw equally. For best results, always make adjustments, as the belt is moving. After each adjustment, wait 15-20 seconds as it can take that long for the belt to react.
Treadmill Assembly

1) Attach the hydraulic hoses to the drive motor of the treadmill body. Make sure that the o-ring on the motor fitting is in place. The hose with the red tape will be attached to the B port (the top fitting).

2) Attach each of the treadmill side decks as shown. Use the provided 1” screws to attach the side decks to the treadmill body. There will be four screws along the top and one screw at the back for each side deck (Fig 1).

3) Secure the lower standoff to the treadmill body as shown, using three of the provided screws (Fig 2).
4) Remove the two screws that are immediately adjacent to the center screw just under the front water-conditioning grill (Fig 3).

5) Center the treadmill in front of the propulsion housing and push the two hoses through the knockout in the faceplate and then through the liquid tite fitting (Fig 4). The compression nut of the liquid tite may need to be loosened to allow the hose to pass (Fig 5). Do not tighten the compression nut at this time.
6) Use the provided screws and fender washers to secure the lower standoff to the front base (Fig 6).
7) Now tighten the liquid tite compression nuts on the outside of the pool and install the left base cap (Fig 7).

8) Position the shroud over top of the stand off and align the slotted holes of the shroud with the holes in the stand off. Loosely secure the shroud to the stand off with the provided 1” screws. Push the shroud against the base and then tighten the screws (Fig 8).
9) The rest of the installation of the Endless Pool can now be completed. Continue with the installation instructions starting at step 14, “Thru-Wall Connections.” Once the water level in the pool is above the hydraulic lines for the treadmill, make sure that there are no leaks at these thru-wall penetrations. If a leak occurs, immediately stop filling the pool and contact Customer Service 800-910-2714.

Hydraulic Power Unit
Hydraulic Connections-
The power unit will look very similar to the power unit for the Endless Pool swim current. The main difference is the high-pressure manifold. The high-pressure manifold on the swim current power unit will be blue while the high-pressure manifold on the treadmill power unit will be gold. Connect the high-pressure hose to the hydraulic connection on the high-pressure manifold. Connect the low-pressure hose (red tape will be wrapped around the hydraulic fitting) will be connected to the black fill cap.
If the hydraulic hoses need to be extended, longer hoses can be provided (run hose). The run hoses provided will be a larger diameter then the hoses attached to the treadmill. Hydraulic adapters to make the connection between these different diameter hoses will be provided with the run hoses.
Electrical Connections (for US and countries with similar electrical requirements)-

A licensed electrician should make all electrical connections.

The hydraulic power unit for the underwater treadmill requires a 220v 30amp GFCI protected power supply. Power will be supplied to the power unit by connecting the existing whip on the power unit control box to the incoming power supply. Note: the neutral wire in the whip will not be used in this application. The load neutral of the GFCI breaker will be connected directly to the neutral bus bar inside your electrical panel. There are two cords coming out of the control box. The cord with the black plug at the end should already be connected to the float switch. The other cord, which has a gray connector at the end, will be connected to the solenoid valve of the external bypass valve.

60Hz Wiring Diagram

Electrical Connections (for UK and countries with similar electrical requirements)-
A licensed electrician should make all electrical connections.

The hydraulic power unit for the underwater treadmill requires a 220v 30amp RCD protected power supply. Power will be supplied to the power unit by connecting the existing whip on the power unit control box to the incoming power supply.

There are two cords coming out of the control box. The cord with the black plug at the end should already be connected to the float switch. The other cord, which has a gray connector at the end, will be connected to the solenoid valve of the external bypass valve.

50Hz Wiring Diagram

Usage & Maintenance

The Hydraulic Aquatic Treadmill allows you to enjoy a full walking or running workout without the pounding of land-based exercise. The Hydraulic Aquatic Treadmill offers a spacious 20" wide belt for walking or running. You expend as much or as little effort as desired and still achieve a great cardio workout.

Two wireless remotes have been provided to operate the treadmill. Press and hold the ON button to turn the treadmill on. To increase the speed of the belt, press and hold the FASTER button. To decrease the speed of the belt, press and hold the SLOWER button. To turn the treadmill off, press and hold the OFF button.

Should the treadmill belt require any tension adjustment, refer to the “Belt Adjustment” section of this Supplemental Guide (page 3). A belt adjustment tool has been provided to allow easier adjustment under water.