



The Bilancio
Underwater Treadmill
Preparation Guide
And
Technical Specification



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Technical Specification

Measurements & Capacities

Bilancio Underwater Treadmill

Width:	684mm
Length: (Ramp Closed)	1807mm (Standard Length) 2107mm (Extended Length)
Length: (Ramp Open)	2564mm (Standard Length) 2864mm (Extended Length)
Height:	1188mm
Weight: (Empty)	250kg
Glass: (3/8 Toughened Plate)	10mm
Speed:	0-8mph
Conveyor Belt:	PVC
Control Box:	Touch Screen Controls
Construction:	Marine Grade Aluminum
Coating:	Marine Grade Powder Coating
Adjustable Feet:	4 (Standard Length) 5 (Extended Length)

Storage Tanks

MDPE WRAS Approved Plastic Storage Tank	
Width:	590mm
Length:	1590mm
Height:	1240mm
Weight: (Empty)	65kg
Capacity:	1000Ltr

Bilancio Fully Pumped System
Standard Length

MDPE WRAS Approved Plastic Storage Tank	
Width:	620mm
Length:	1950mm
Height:	1250mm
Weight: (Empty)	80kg
Capacity:	1250Ltr

Bilancio Fully Pumped System
Extended Length

MDPE WRAS Approved Plastic Storage Tank	
Width:	620mm
Length:	1950mm
Height:	1250mm
Weight: (Empty)	80kg
Capacity:	1250Ltr

Bilancio Fresh Water System

Plant Pack

Width:	760mm
Depth:	740mm
Height:	1200mm
Power:	230V Single Phase 50Hz Supply 20A Dedicated Supply
Heater:	2Kw

Building Requirements

There are some very important considerations to be made before installing this equipment.

Some of the most important things to consider include the access into your building through doorways; turning area and maneuverability once in the building. The Bilancio is not on wheels and is not easy to move once inside the building. Particularly if there are obstacles such as offset doorways or restricted passages etc.

NB; Plastic storage tank and plant pack are separate units and placed directly onto the floor.

The main factors to consider when planning how best to accommodate the Bilancio into your building are as follows:

Access

Where are the doors located in relation to the route taken by the equipment as it is brought in?

Can all the pieces of equipment be maneuvered into the building and to the point where they will be housed and operational?

- Level or ramped access is preferred due to the weight of the equipment.
- The minimum width required for this item is 760mm plus some room for clearance for the water storage tank.
- The Treadmill is fitted with heavy duty adjustable feet not wheels. The weight needs to be considered when difficult situations arise.
- Once inside the building, the treadmill requires quite a large turning circle due to its length.

Flooring

Is the floor surface suitable, i.e. non-porous?

- Although patients will not splash a great deal in the Bilancio, the floor covering must be considered, as the patients will inevitably be wet when leaving the treadmill. A sloping floor with a drain will be an advantage over a mop and bucket!
- A reasonably level floor helps to keep the water levels even in the treadmill whilst it is in use. The feet can be adjusted to allow for sloping or uneven floors.

Position of the Bilancio Treadmill

Are both sides of the Bilancio accessible for viewing?

- The Treadmill is fitted with large glazed viewing panels on three sides.
- We recommend positioning the treadmill in such a position that both side viewing panels can be observed.
- It can also be an advantage to have the patient facing towards a door or into the room as opposed to facing a blank wall when exercising.

Position of the Storage Tank

How far apart will the treadmill and storage tank be placed?

- The storage tank can be positioned several metres away from the treadmill. However please note that the further tank is away, the longer the filling times will be.
- The water supply and waste need to be in close proximity, see below.
- The Storage tank feeds the Bilancio with 50mm x 50mm flexible hoses. If the Storage tank is to be positioned in a different room, provision needs to be made for these hoses to go around or through walls, or under the floor.
- A conduit with an electrical cable will be running alongside the water pipes.
- The standard supply of cable and flexible hoses is 5m. If your situation requires further cable and flexible hoses, please advise Westcoast Hydrotherapy Ltd when placing your order. A surcharge may be payable.
- If the storage tank is to be positioned outside the building, an accessible insulated building needs to be constructed over it.
- If space is at a premium in your room, then it is possible to adapt the water supply system to draw water from your hydrotherapy pool and to thus dispense with the storage tank. This option requires some changes to the pipe-work and electrical control system, please order a Pool Fed Bilancio.

Electricity Supply

Which electricity supply option suits your situation best?

- The electricity supply needs to be in position and made live before the Westcoast engineers arrive for installation.
- We recommend a dedicated supply to the main control box. We require this supply to be a 20A 230V, 50Hz fixed IP67 rotary isolator, positioned close to the Bilancio treadmill
- The main control box for the Bilancio and plant, which houses the RCD's and contactors, will be positioned next to the treadmill and will need to be powered from the IP67 rotary isolator.
- The Bilancio is controlled from a touch screen tablet, which is housed on the front of the main control box. The tablet displays the speed settings, pump settings, emergency stop and reset buttons, with digital readout for speed and distance; therefore, it needs to be positioned within arm's reach of the treadmill.
- NB; We would recommend that a qualified electrician carries out a survey of an existing buildings electrical system to see what other work will be necessary to meet current electrical regulations prior to the Treadmill installation.

Water Supply

Do you have a nearby cold water supply to the building?

- A cold water supply needs to be installed into the area where the storage tank is to be positioned.
- At a minimum the water supply needs to be a 15mm tap with hose attached, which is able to reach the tank.
- If the Bilancio and storage tank are to be housed within the same room, the tap can be sited between the two pieces of equipment.
- Plumbing work should be carried out before the Westcoast engineers arrive.

Pipework

Where are the Bilancio and storage tank to be situated in relation to each other as well as to water supply and waste outlets?

If necessary, can the floor be dug up for pipe-work to be buried?

Do you need permission for trenches if your building is leased?

- Pipe trenches can be used to conceal wires and pipework, but take into consideration pipe and wire lengths will be increased depending on the depth of the trench. Also the width and depth of the trenches must be adequate enough to take the 2 x 50mm pipes and 2.5mm cable.
- If the Bilancio and tank are close to each other, the pipe-work can run from machine to machine across the floor. They will be cable-tied together and could be covered by elevated duckboards or similar equivalent.
- If the storage tank is located in an adjoining room and the pipe-work requires concealment, then trenches would need to be dug. The pipes would come up directly under the Bilancio and just in front of the storage tank to join with the necessary pumps etc.

These details need to be discussed when ordering the equipment.

Waste Outlet

Is there a suitable waste outlet fitted in the building?

- A waste outlet needs to be in situ before the Westcoast engineers arrive on site.
- Waste water is produced from backwashing the sand filter. This should be carried out at regular intervals.
- Recommended cleaning is at 7-10 day intervals.

- On average, about 67L (10-15 gallons) is pumped out through the backwashing process.
- The waste pipe needs to have a minimum diameter of 1½" (38mm) and be positioned close to where the plant pack is to be situated. The Westcoast engineers would then join onto this the pipe-work from the sand filter.
- Waste runs directly into the mains drainage system, a soak-away pit if the system is on a septic tank, or into a holding tank to allow water to be recycled for the garden or other such use.
- The water must not empty directly into a watercourse such as a ditch or pond as this could contravene local authority regulations.
- If suitable, it is also recommended that a floor drain is placed in the room (downhill) to allow surface water to drain away.

Dehumidifier

It is essential that a dehumidification system be installed alongside the storage tank. This is to minimise condensation build-up within the room. Should this advice be ignored, further problems could arise later on, and will affect the building both in terms of its cosmetic appearance and its structural stability.

Wi-Fi (Pumped & Pool Fed Versions only)

The Pumped and Pool Fed Bilancio is controlled by a touch screen tablet. A network cable from your router/network to the position of the control box is essential. In addition a Wi-Fi connection is also required for the full use of this system. The tablet uses the Wi-Fi Signal to communicate with the control box, if this is not a strong or stable connection then the tablet will not work at its most suitable. Any firewalls must allow the tablet and control box to communicate and they must be on the same network. All chemical orders, water balancing, sanitizing and servicing records are stored on Westcoast's cloud for your convenience and can be viewed at any time. If you have an IT department or regular IT support their inclusion is very welcome to ensure you have a smooth integration to your network.

Further Discussion

If there are any doubts about the project and some professional advice is needed, then please feel free to send us a plan with a list of queries. We can usually find an alternative answer or see a different course of action that could be taken. Don't be put off and dismiss the plan totally until you have spoken to us.

All the measurements and specifications are listed separately for your information.

Before the engineers arrive....

- Make sure the access is clear, all removable objects are cleared and that the access is good.
- Advise Westcoast of any steps or steep inclines.
- Advise Westcoast of any door openings not wide enough to take the treadmill or storage tank.
- If the storage tank is to be in a different room make sure the route for the flexible pipes and the cable is clear and any walls that are in the way have a 150mm x 150mm hole pre-drilled.

On installation day....

- If an electrical certificate is required, a local electrician is needed for two or three hours to test the system and issue a certificate.

When the engineers leave....

- The Bilancio and the tank will be connected to each other.
- The water will be filling or have already filled the storage tank.
- You will have been shown how to operate the filter system.
- The water may still be heating to temperature.
- The Maintenance Kit will have been explained to you.
- You will have been given an Operating Manual. This includes sections on Water Quality management, operation guidelines, maintenance details and your guarantee.
- You will have signed the handover documents, and been given a copy.

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