



HYDRO^{CO}
KNOW THE DIFFERENCE™



THOROUGHREAD AQUA

AQUATIC TREADMILL AND CHILL SPA



HydroCo – Animal Health

Over the past decade HydroCo have become internationally recognised as a leader in the design and development of innovative hydrotherapy systems for sport, wellness and rehabilitation. We now extend our offering to include animal health products with initial focus on the wellbeing of equine.

Overview

ThoroughTREAD Aqua is a unique, complete aquatic equine centre. Its design is the result of extensive research, development and investigation into existing aquatic equine systems used by trainers and veterinarians internationally, making it the most innovative of it's kind.

ThoroughTREAD Aqua is an above-ground, robust yet compact, equine system designed for long-term reliable operation. Its smooth surfaces and user friendly controls, provide a safe working environment for the operator and animal. Clear wall panels surround the treadmill to provide a spacious, bright and open environment for horse comfort, and allows the operator to monitor activity of the horse during exercise.

The horse is led into the treadmill through the entry door and is secured in-place. Both doors are then closed and at the press of a button the treadmill is filled within minutes. The water is supplied from the storage tank where it is filtered and maintained.

The water storage tank holds approximately 10,000 litres (2642.5 gallons) and may be temperature controlled (heater and chiller optional). The treadmill can be



activated at any time during the fill process and the water level may be adjusted at any time throughout the program.

After each session, the water is transferred back into the storage tank where it is filtered and maintained at all times. At the same time, approximately 10% of the water is automatically replaced with fresh water, ensuring optimum water quality for subsequent use.

For units with **CHILL SPA** option, the same process is followed however chilled water 2-4° Celsius (35.6-39.2° F) is transferred into the treadmill. Units can be supplied with multiple storage tanks, each with varying water temperatures.

Water Conditioning, Rehabilitating and Strengthening

ThoroughTREAD Aqua utilizes the natural properties of water – buoyancy, resistance and temperature. Although aquatic exercise is practiced extensively to assist equine athletes achieve peak performance or rehabilitating an injury, **ThoroughTREAD Aqua** provides a new, innovative and advanced approach for this type of training.

Deep Water Innovation

A unique feature of **ThoroughTREAD Aqua** is the incorporation of a high performance variable speed treadmill with the standard speed range up to 11kph (6.8mph) with optional speed range of up to 27kph (16.7mph). It enables deep water therapy, and has been engineered to accommodate an impressive water depth of up to 1300mm (51 inches), approximately 6,000 litres (1585.5 gallons).

ThoroughTREAD Aqua also offers the new and innovative **CHILL SPA** specification, making it the most complete aquatic equine centre available. The treadmill may be operated wet or dry.

Other aquatic treadmills that provide a water depth to only knee or shoulder height are limiting. Although adequate for specific exercise, such low water depth provides very little or no buoyancy – all the animal's weight is applied directly onto its legs and in-turn is transferred throughout the body. Deep water provides buoyancy and therefore takes the weight off the legs creating a 'low impact' exercise environment when required – especially during rehabilitation or conditioning.

There is a reduction of friction between articulating joints when exercising in deep water – it provides the same safe exercise environment as swimming. The resistance of water also appears to induce specific gait modifications at varying



water depths ensuring that soft tissue, tendons, muscles and ligaments are exercised as on land but without the high impact. The hydrostatic pressure generated by water assists blood flow and reduces swelling. An injured horse may return to exercise much quicker in water than on land resulting in reduced recovery time.

A high flow, variable flow resistance jet, provides an adverse current over the treadmill providing additional resistance for the horse to walk or run against. Multiple jets are strategically located to assist the water treatment /filtration process by forcing solids to the surface for skimming. Water and air mixed jets also provide a massaging effect and increase the dissolved oxygen content of added solutions when **ThoroughTREAD Aqua CHILL SPA** option is selected.

Chill Spa - Inflammation

ThoroughTREAD Aqua CHILL SPA (optional) enables the use of chilled water during treadmill or spa activity. In addition to the main water storage tank (used to fill and store the water from the treadmill) an additional water storage tank is provided. This secondary storage tank holds chilled water maintained at temperatures as low as 2°Celsius (35.6°F).

Extensive research shows the positive impact of combining chilled salt water with water agitation created by water/air jets. Chilled salt water treatment can be used for many lower leg injuries by primarily reducing inflammation and removing fluid build-up (this build-up causes painful swelling around the injury). The hydrostatic pressure assists with blood circulation around the injury and swelling reduction.

Chilled salt water assists in the treatment of: Tendonitis, Arthritis, Desmitis, Hoof injuries, Jar Up, Bursitis/Synovitis, swelling, open wounds and skin infections.

The regular use of chilled salt water therapy immediately following exercise, reduces many of the stresses within tissue well before inflammation develops.



Features and Benefits

Incline

ThoroughTREAD Aqua is supplied standard with variable height incline that has been designed for use during dry treadmill operation.

The smooth hydraulic incline adjusts from 0-10 degrees and is beneficial in improving stamina and building muscle strength, particularly in the back and hind quarters.

Deep Water Advantages

- Buoyancy reduces weight bearing by up to 90%
- Low impact on limbs, joints and muscles
- Joint decompression
- Hydrostatic pressure assists blood flow and reduces swelling
- Soft tissue mobilization
- Reduces friction between articulating joints reduction of pain.

ThoroughTREAD Benefits

- Builds muscle strength
- Speeds up recovery time
- Accelerated conditioning
- Promotes correct posture and a balanced gait
- Improves cardiovascular fitness
- Improved performance
- Minimises performance injuries
- Reduces swelling.

Custom Design

In order to meet our customers needs, HydroCo provide a custom design service. In addition to above ground treadmill/spa we are able to supply high performance hydrotherapy thermal contrasting showering systems, in-ground treadmills, pools and a variety of complimentary equine wellness equipment.

Water transfer & filtration system.



ThoroughTREAD Aqua Features

- Electronic control display panel – speed, time, distance, temperature and water transfer
- Variable speed, smooth treadmill drive up to 11 kph (6.8mph)
- High speed drive pack with speed range up to 27 kph (16.7mph) OPTIONAL
- Stainless steel belt rollers/sealed external drive roller bearing assembly
- Water transfer system - stainless steel pumps and marine grade valves
- High flow resistance jet
- Treadmill belt break for loading/unloading
- Clear viewing panels
- Fill & drains maximum depth - 1300mm (51 inches) (4 mins approx)
- Water storage tank with auto top-up & water turnover
- Chill Spa OPTIONAL, Warm Spa OPTIONAL
- Multi level, rapid turnover filtration system
- Electronic control display panel /adjustable program filtration, water transfer and temperature parameters
- Hydro-jets for solids surfacing/skimming water surface
- Easy access entry & exit doors – stainless steel frames
- 3 treadmill stop buttons
- Hydraulic incline 0-10 degrees
- Accommodates any size horse
- Non-slip heavy duty treadmill belt
- Rapid drain – empty treadmill in 45 seconds (approx)
- Horse securing strap anchors
- Rust resistant main & incline frame
- In-place treadmill belt replacement
- Water and energy wise
- Step-up operators platform OPTIONAL
- Treadmill entry and exit ramps OPTIONAL

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