



# Commercial Dosing, Contact Chambers

PoolMoss<sup>®</sup> Pro and SpaMoss<sup>®</sup> Pro



## How We Dose

A significant portion of our research and development has centered around the achievement of proper dosing for each application. With the widely varying range of water bodies, our ability to determine the right measurement criteria has been central to the effectiveness of our products and approach.

With this in mind, we primarily calculate four associated elements:

- 1) *Pool Type/Usage*
- 2) *Water Volume*
- 3) *Water Temperature*
- 4) *Bather Characteristics*

Each of these components plays a key role in the pool environment, and have proven critical to effective dosing of Sphagnum moss

## Water Volume

Because Sphagnum moss works largely like a tea bag, the strength of the dose is directly affected by the amount of water in the pool. Just as one tea bag can only make a limited amount of tea, one bag or strip of moss will only treat a relatively finite amount of water.

## Water Temperature

The ability to reduce organic contamination remains one of the most striking benefits of Sphagnum moss.

However, because temperature plays an instrumental role in the increased growth rate of organic contamination, it needs to be factored into the formula for dosing a water body. As such, the temperature in a therapy pool or spa is going to increase the amount of Sphagnum moss required to treat the water.

## Bather Characteristics

The level of organic contamination in a pool has a lot to do with the amount of people in the water, the type of activity they're engaged in, the age of the swimmers, etc.

A standard lap pool receives our baseline dosage. These typically have a moderate amount of swimmers, and maintain moderate amounts of activity.

In a therapy pool, the dose gets higher. In addition to increased heat, they are often home to older swimmers, and/ or more aerobic activity. This leads to typically higher organic loads within the pool, and increased needs for moss.

More people...more organics. If it's a kiddie pool or splash pad...more organics. Waterpark with lots of people... more organics. More organics...more moss. Community centers, municipal pools, and YMCAs are examples of other pools that might require a higher dosage.

Spas receive the highest dosage. The high heat, complexity of plumbing, and nature of activity make spas a challenging environment to treat.



Standard Dosage	Lap Pools, Moderate Use Recreational Pools
Intermediate Dosage	Therapy Pools
Premium Dosage	Waterparks, Activity Pools, Community Pools
Spa Dosage	Spas

## PoolMoss® Pro Calculations

One brick will treat approximately 7,500 gallons (28.39 m<sup>3</sup>) of standard pool water. Each commercial strip will handle 1,000 gallons (3.79 m<sup>3</sup>) of the same water.

PoolMoss® Pro 3 contains three bricks, and the primary unit used in dosing most pools. PoolMoss® Pro 2 has two bricks, and is typically used to help maintain dosage accuracy. For instance, if the dose calls for 17 bricks, the pool would use **5 PoolMoss® Pro 3** and **1 PoolMoss® Pro 2**.

## Water Treatment Capacities (per Unit)

	Standard Dose (i.e. Lap Pool)	Intermediate Dose (i.e. Therapy Pool)	Premium Dose (i.e. Activity Pool, Waterpark)	Spa Dose (Mixed Use)
PoolMoss® Pro 3 (1 Unit)	22,500 gallons (85.17 m <sup>3</sup> )	16,875 gallons (63.88 m <sup>3</sup> )	11,250 gallons (42.59 m <sup>3</sup> )	1,920 gallons (7.27 m <sup>3</sup> )
PoolMoss® Pro 2 (1 Unit)	15,000 gallons (56.78 m <sup>3</sup> )	11,250 gallons (42.59 m <sup>3</sup> )	7,500 gallons (28.39 m <sup>3</sup> )	1,280 gallons (4.85 m <sup>3</sup> )

## PoolMoss® Pro Sample Dosing Scenarios

The following sample scenarios will help illustrate applications and dosing:

University Lap Pool  
(250,000 gallons)

Application	Contact Chamber	Moss Type and Dosage
Surge Tank	(1) CC-STL (1) CC-ST5	(11) PoolMoss® Pro 3
Plumbed In	(1) CC-140	(11) PoolMoss® Pro 3

Hospital Therapy Pool  
(80,000 gallons)

Application	Contact Chamber	Moss Type and Dosage
Surge Tank	(1) CC-STL	(4) PoolMoss® Pro 3 (2) PoolMoss® Pro 2
Plumbed In	(1) CC-90	(4) PoolMoss® Pro 3 (2) PoolMoss® Pro 2

Municipal Activity Pool  
(400,000 gallons)

Application	Contact Chamber	Moss Type and Dosage
Surge Tank	(4) CC-STL (1) CC-STS	(34) PoolMoss® Pro 3 (1) PoolMoss® Pro 2
Plumbed In	(2) CC-150 (1) CC-80	(34) PoolMoss® Pro 3 (1) PoolMoss® Pro 2

Waterpark Wave Pool  
(850,000 gallons)

Application	Contact Chamber	Moss Type and Dosage
Surge Tank	(10) CC-STL (1) CC-STS	(73) PoolMoss® Pro 3 (1) PoolMoss® Pro 2
Plumbed In	(4) CC-150 (1) CC-140	(73) PoolMoss® Pro 3 (1) PoolMoss® Pro 2

## Contact Information

### Creative Water Solutions

13809 Industrial Park Blvd.

Plymouth, MN 55441

**Phone** (763) 398-0141

**Fax** (763) 551-2572

info@cwsnaturally.com

www.cwsnaturally.com

