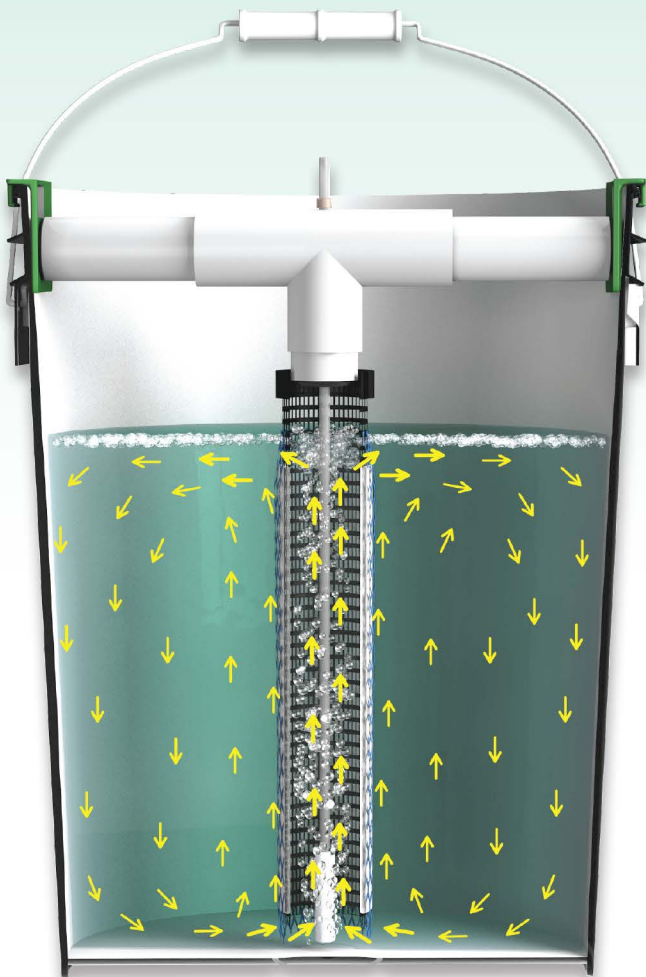
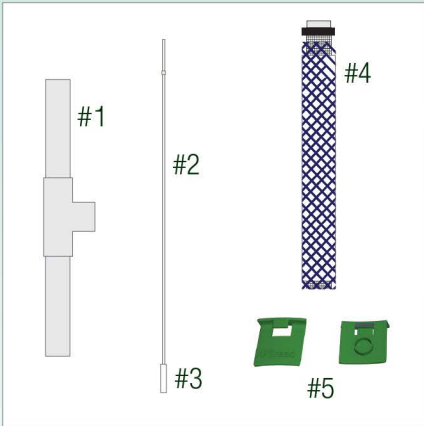


# Instructions

## Compact Culture System



# Parts & Specifications



## **P** T-Assembly Parts Guide

- 1: T-Assembly Support
- 2: Rigid Airline
- 3: Airstone
- 4: Floss Carrier Standpipe
- 5: CCS Clips (Pair)

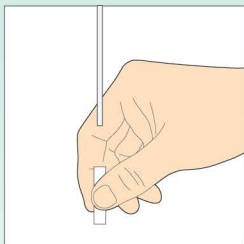
## **!** CCS Rotifer Culture Specifications

- Air flow: Minimum 1.5 - 2 LPM
- Salinity: 10-35 ppt (S.G. 1.0075 - 1.026), optimum 15-20 ppt
- Temperature: L type 27 °C; S types 30 °C
- pH: 7-8 is optimal, 6.7 min, 8.5 max
- Ammonia: 1 mg/L NH<sub>3</sub>
- Feed: RGcomplete
- Feed Rate: 11 mL per million rotifers to be harvested
- Feedings per Day: "Continuous" feeding is best (say every 3 hours), but for good production feed at least 2x per day
- Harvest Rate: 20-30% Daily

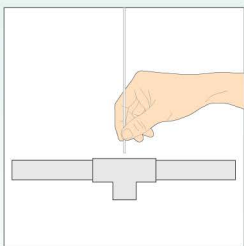
For more detailed directions please visit

[www.CompactCultureSystem.com](http://www.CompactCultureSystem.com)

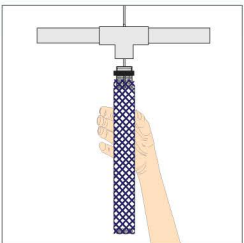
# Assembly



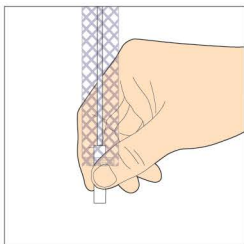
- 1 Remove Airstone**  
Pull airstone off the rigid airline.



- 2 Insert Rigid Airline into T-Assembly**  
Push airline through the hole in the top of the T-fitting.

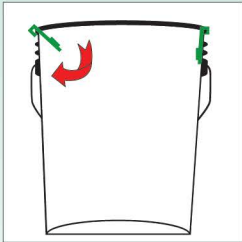


- 3 Attach Standpipe**  
Insert top of floss carrier standpipe into T-fitting.



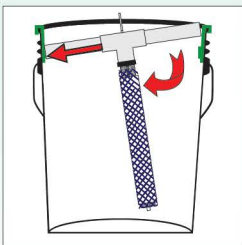
- 4 Re-attach Airstone**  
Carefully slide airstone on to the end of the rigid airline.

# Set-up



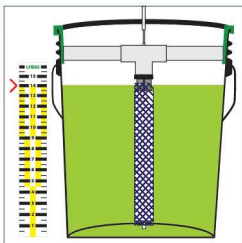
## 1 Attach Clips to Bucket

Insert tab of clip under rim of bucket, swing tab into place against inside of bucket. Attach 2nd clip on opposite side of bucket.



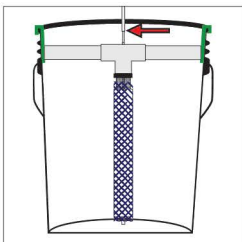
## 2 Fitting T-Assembly into Bucket

Seat one arm of the T into a clip, push while holding onto opposite clip to deform rim of bucket and seat other arm in opposite clip.



## 3 Add 14 Liters Saltwater

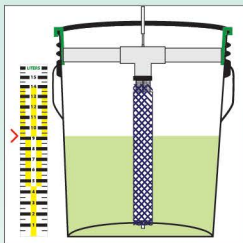
Add 14 liters of saltwater, rotifer feed, and rotifer starter culture.



## 4 Attach Air Source to Top of Rigid Airline

Seat bucket cover in place; stretch slightly to fit over clips. Attach tubing from air source to the rigid airline.

# Daily Maintenance



## 1 Harvest Culture & Water Change

Once culture reaches desired density, harvest 20-30% each day.



## 2 Clean Rotifer Floss

Deform bucket rim to release T from clips, lift T out of water and let free water drip into bucket. Flush waste from floss with strong spray of water.



## 3 Brush Bucket Surfaces

Brush interior surfaces of the bucket to remove adhering detritus, so it can be trapped and removed by the floss. Replace harvested volume with new saltwater.



## 4 Feed Rotifer Culture

Re-install T into bucket clips, feed culture, re-attach cover, re-attach air supply.

# Harvesting & Counting

## H Harvesting the Rotifer Culture

1. It is best to harvest every day.
2. ~30% is a good daily harvest rate.
3. If one day you need more rotifers, it is OK to harvest more heavily. To increase the number of rotifers harvested every day, increase the feed rate but keep a consistent harvest rate. For fewer rotifers just reduce the feed rate.
4. To harvest, remove the appropriate volume of culture. The rotifers can be concentrated on a screen, or simply pour the rotifer culture water into your tank.
5. Replenish the rotifer culture with new salt water.

## # Counting Rotifers

1. **Important:** Stir culture to ensure a representative sample.
2. Pipet a sample (typically 10 mL) into a vial. To immobilize the rotifers for counting, add 5 drops of vinegar and mix.
3. **Important:** Stir sample so it is well-mixed, then quickly (before rotifers have time to settle out) use a pipet to transfer a known volume to a counting slide. Count the rotifers in that volume and calculate the number per mL or L.
4. Your count should include at least 100 rotifers to be statistically reliable. If it is lower, count additional volumes.
5. The most accurate counts are made with a Sedgewick-Rafter type slide that has a grid of  $50 \times 20 = 1,000$  squares. You can count the rotifers in 100 squares and multiply by 10 to get the number of rotifers/mL. If the number is below 100, count more squares; if you count 200 squares, multiply by 5.

Need technical support?

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