

# INSTRUCTIONS FOR USE OF BIO-FRESH END COATING UNIT

# Bio-Fresh™

**1,0% and (1,2%)  
Concentration solid**

**60 liters of Bio-Fresh mixture is enough for about 12 tons of fruit (average)**

## Required when using ECU (End Coating Unit)

- Bio-Fresh machine including Bio-Fresh storage tank.
- 1 bucket of Bio-Fresh coating of 5 liters
- 1 empty bucket of 12 liters
- 1 measuring cup 2 liters
- 1 spatula
- 1 "mixer" for the battery drill
- 1 battery drill



## Preparation

1. Clean the "Bio-Fresh storage tank" and the plates under the machine thoroughly.
2. Fill in the "Bio-Fresh storage tank" with 50 liters of water. See size indicator in the "Bio-Fresh storage tank".
3. Heat the water in the "Bio-Fresh storage tank" up to 48°C.

## Preparation Bio-Fresh mixture

1. Take the bucket of the "product Bio-Fresh" (bucket of 5 Liters).
2. Mix "product Bio-Fresh" carefully with mixer on the lowest setting until a homogeneous substance. Mix well on the bottom of the bucket!
3. Let the "product Bio-Fresh" 2 minutes stiffen in the bucket.
4. Fill measuring cup with 1.0 liter "product Bio-Fresh" for 1% concentration (and with 1.2 liters for 1.2% concentration).
5. Fill one empty bucket with 9 liters of lukewarm water (8.8 liters and 1.2 % concentration).
6. Add measuring cup with 1.0 liter "product Bio-Fresh" to the bucket with 9 liters of water (or 1.2 liter "product Bio-Fresh" to 8.8 liters of water).
7. Mix the resulting "Bio-Fresh mix" with mixer on lowest setting gently until homogeneous substance.
8. Let the "Bio-Fresh mixture" 7 minutes to stiffen.
9. Mix the "Bio-Fresh mixture" again for 1 minute.

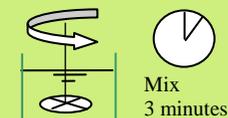
## Preparation

2. Fill up Bio-Fresh storage tank

50 liters water, 48°C

## Preparation Bio-Fresh mixture

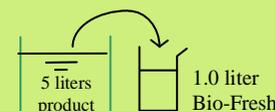
2. Mix Bio-Fresh in a 5 liter bucket



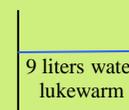
3. Stiffen Bio-Fresh in a 5 liter bucket



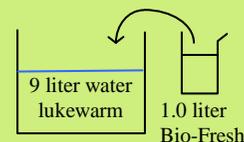
4. Fill measuring cup with 1.0 (1.2) liter Bio-Fresh product



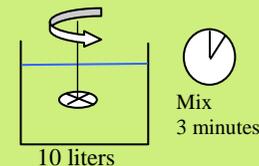
5. Fill bucket with 9.0 (8.8) liters water



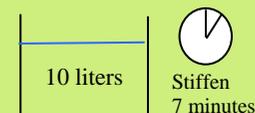
6. Add 1.0 (1.2) liters Bio-Fresh



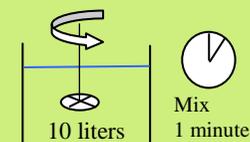
7. Mix Bio-Fresh mixture



8. Stiffen Bio-Fresh mixture



9. Mix Bio-Fresh mixture



10. Rinse the measuring cup into the “Bio-Fresh storage tank”.
11. Empty the bucket with 10 liters of “Bio-Fresh mixture” gently (because of risk on foam formation) into the storage tank with 50 liters of water. Use the spatula to the last bits. The vessel contains 60 liters now.
12. Mix the “Bio-Fresh mixture” in the “Bio-Fresh storage tank” carefully with the mixer for 2 minutes. (Caution: wild mixing movements creating foam)
13. The Bio-Fresh mixture is ready to use.

### Preparation of the Bio-Fresh machine

1. Switch gear Bio-Fresh installation and adjust temperature to 48°C.
2. Start the “Bio-Fresh waterfall”.

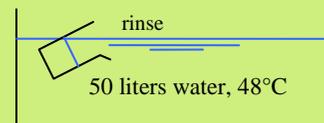
### Starting fruit treatment (for example pears)

1. Let the dried pears rotate under the waterfall and then blow dry in the tunnel.
2. Do not overload the machine with too many pears, pears must be thoroughly soaked under the waterfall and then can be dried in the tunnel.
3. Take care of a proper operation of the Bio-Fresh installation.

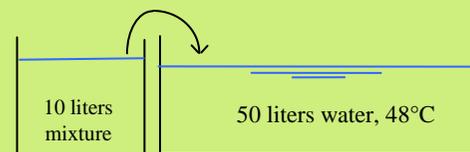
### Especially take care of:

- When new fruit products are treated for the first time enter first trials with different concentrations of Bio-Fresh, to examine how the best results are obtained.
- Proper functioning of the waterfall.
- Correct temperature of the water.
- Ensure that pears are dry BEFORE treatment (due to risk of dilution of the coating and in a water-saturated pear, the coating will not hold well)
- Pears should be thoroughly dry AFTER the treatment, before they are packaged (in order to prevent that the coating is removed from pear back again)
- Handle with non absorbent gloves.
- Packing in NOT absorbent packing material.
- If not all Bio-Fresh mixture is used in one operation the shelf-life of the mixture is maximum 3 days. The mixture can be used the next day. Before use, carefully mix till a homogeneous substance.

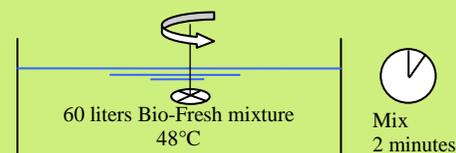
10. Rinse the measuring cup into the “Bio-Fresh storage tank”



11. Empty the bucket with 10 liters “Bio-Fresh mixture” into “Bio-Fresh storage tank”



12. Mix carefully because risk of creating foam



13. Ready to use !!



[www.Bio-Fresh.nl](http://www.Bio-Fresh.nl)

