

extending shelf-life



Pears



We improve air



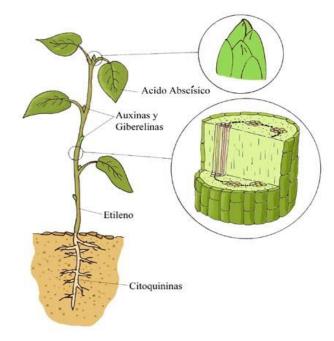


### What is the Ethylene?

## Plant hormone that regulates the processes associated with ripening and senescence.

Its accumulate in storage chambers and transport containers.

Physiologically active very **low concentrations** (0,015 ppm)

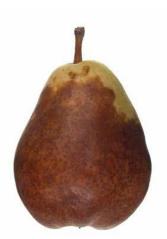




## Effects of Ethylene on Pear

- Over- ripening.
- Softening (loss of firmness).
- Color change (yellowing).
- Higher susceptibility to scald.
- Higher incidence of rots ans fugnal infections.
- Shriveling and weight loss.





#### POST HARVEST **Pear & Ethylene** CARF by **BON** extending The **Pear** is a **climateric** fruit presenting a **broad range of** varieties which differ considerably with regards to their ethylene producction/sensibility and the duration of their **postharvest life**. Low Ethylene Williams (or Barlett) Low-Moderate Packhams Triumph, Blanquilla, Ercolini, Limonera Ethylene **Moderate** Anjou, Conferencia, Asiática Ethylene **High Etylene** Comice, Bosc

The solutions against ethylene must adapt to the variety and the period/mode of storage.





#### Williams or Barlett Pear

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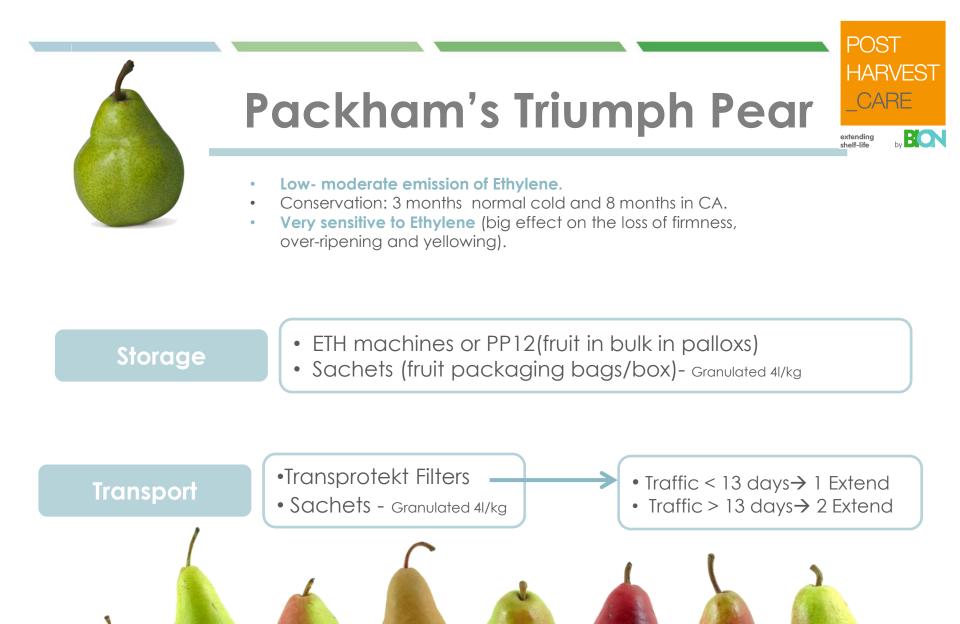
- Low emission of Ethylene.
- Conservation: 3 months normal cold and 6 months in CA.
- Very sensitive to Ethylene (big effect on the loss of firmness).

#### Storage

- ETH Machines (fruit in bulk in palloxs)
- Sachets (fruit packaging bags/box)- Granulated 41/kg

Chamber Volume	Model	Duration Granulated	Duration Granulated CA
850 m3	ETH – V850/1	105 días	210 días
1700 m3	ETH - V1700/2	105 días	210 días
Indifferent	1 Sachets 5 g/bag 15 – 20 kg fruit (normal cold or CA)		





	Anjou Pear	POST HARVEST CARE
	<ul> <li>Low emission of Ethylene.</li> <li>Conservation: 3 months normal cold and 10 months CA.</li> <li>Sensitive to Ethylene (big effect on the loss of firmness, overripening and yellowing).</li> </ul>	
Storage	<ul> <li>ETH Machine (fruit in bulk in palloxs</li> <li>Sachets (fruit packaging bags/box)- Granulated 41/kg</li> </ul>	

Chamber Volume	Model	Duration Granulated in normal cold	
850 m3	ETH – V850/2	30 days	
Indifferent	1 PP12 per 8 Tn Pear in normal cold or CA 1 PP12 per13 Tn Pear in ULO		
Indifferent	2 Sachets 15 g/bag 15 – 20 kg fruit (normal cold or CA)		

Transport

•Transprotekt Filters
• Sachets - Granulated 4I/kg
• Traffic < 15 days → 3 Extend</li>
• Traffic > 15 days → 4 Extend

#### **Advantatges**

- Increases commercial life of produce.
- Reduces waste
- Keeps the **batch homogeneity** after artificial ripening.
- Prevent weight loss
- Is disposable.
- Keeps colour.
- Avoids complaints/returns/renegotiations from clients.
- Permite beneficios de las fluctuaciones de los precios.
- Is harmless to workers, produce and environment.
- Is easy to handle and cheap.
- Is usable in organic products.



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# Thank you



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