

SMART-RIPE® BENEFITS

- Know your ethylene levels anytime from anywhere
- Have full control of ethylene levels by setpoint
- Maintain archive of ethylene, temperature and RH% levels
- Be alerted to problems by e-mail or text message

EASY AND SAFE*

Ethylene is explosive. Our products, when used as directed, are not capable of producing explosive levels of ethylene in commercial ripening rooms. They are designed for providing non-pressurized and safe ethylene levels on a timed and continuous basis for uniform ripening & de-greening.

MICROPROCESSOR TECHNOLOGY

With intelligent microprocessor technology, critical processes of the generator are monitored. Continuous indication of operation status is provided, making it clearly evident of ethylene production.

The ethylene-based fruit ripening system by CATALYTIC GENERATORS LLC, USA, incorporating the innovative SMART-RIPE® technology

PC-Based Control, Monitoring and Data Logging of Ethylene Application

Microprocessor and Ethernet-Based

This system consists of ethylene, temperature and relative humidity sensors, and a Smart-Ripe® generator (this is a slightly modified version of one of our ethylene generators). The generator and sensors are network-enabled and contain microprocessors that allow communication on a local network and with our dedicated Smart-Ripe® server via the Internet. Our Ripening Manager software allows for monitoring and control of the equipment on your network.

Ethylene Monitoring and Control

We have developed a detector that will measure ethylene levels. The Smart-Ripe® generator uses data from this detector to provide control of ripening room ethylene levels. The user may enter an ethylene setpoint between 50 and 300 ppm; the ethylene production of the generator will then automatically modulate in order to maintain the desired setpoint.

Accuracy of the ethylene sensor is 15%, and sensor life is 1 year. Under a service agreement with us, a replacement program will be in place to send a new sensor and generator pack every year. Replacement is quick and easy, about 5 minutes per room.

Ripening Manager Software

In order to monitor and control the ethylene level, we created the Ripening Manager software. This program installs on a computer that is located on the same network as the Smart-Ripe® system. It will show all of the equipment on screen, along with the room numbers, ethylene levels, temperature and RH% readings. With this software, changes to ethylene setpoints can be made, as well as changes to high and low alarm levels for ethylene, temperature and RH%.

** There is absolutely NO RISK of ethylene explosion when following product directions. For more information, see our product safety information.*

EXPERIENCED

TAKEM Ltd offers solutions and equipment for the fresh produce industry since 1985. We act as distributors for the US Manufacturer CATALYTIC GENERATORS LLC for Greece, Cyprus, Germany, Russia, Rumania, Bulgaria, Albania, FYROM, Ukraine, Turkey, S. Arabia, Yemen, Syria, Georgia, Armenia and other countries of the former Soviet Union.

TECHNICAL SUPPORT

Our expertise is available 24/7 by phone, email or web, and we gladly make on-site visits to support our customers.

MORE INFORMATION

Please contact us anytime or visit us on the web.

www.takem.gr

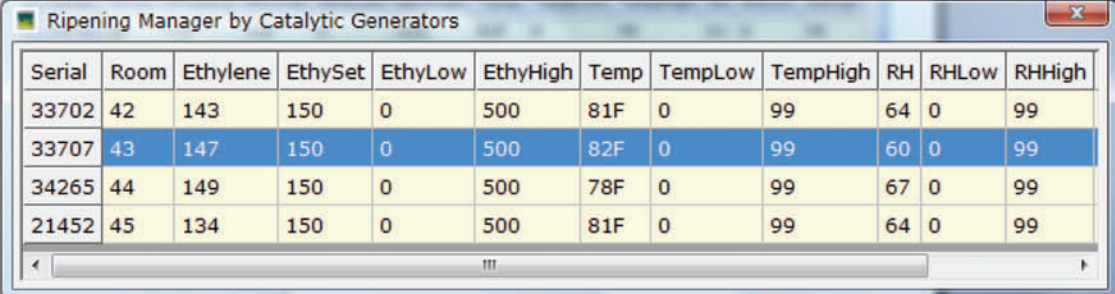
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Serial	Room	Ethylene	EthySet	EthyLow	EthyHigh	Temp	TempLow	TempHigh	RH	RHLow	RHHigh
33702	42	143	150	0	500	81F	0	99	64	0	99
33707	43	147	150	0	500	82F	0	99	60	0	99
34265	44	149	150	0	500	78F	0	99	67	0	99
21452	45	134	150	0	500	81F	0	99	64	0	99

Ripening Manager Software

Web-based access to ripening room conditions

Internet connectivity enables Smart-Ripe® equipment to connect to our Smart-Ripe® server and to report all sensor data every 5 minutes. Secure access to our Smart-Ripe® web site (www.monitor.smartripe.com) can be provided so that conditions of all Smart-Ripe® equipped rooms are able to be seen from anywhere there is Internet access. The server also stores readings for download and sends email or text message alerts*:

• Data Logging

Every five minutes, the Smart-Ripe® server will store the generator status, ethylene level, room air temperature and room RH% reading in a downloadable text file. This is easily imported into Excel or other spreadsheet applications for viewing and storage... making record keeping and compliance almost effortless.

• E-mail and Text Message Alerts

The Smart-Ripe® server provides e-mail and text message alerts. High and low levels may be established for each environmental point. If any of these points are then violated, or if a generator does not operate correctly the system will notify personnel by e-mail, text message* or both.

Easy Setup

All that is needed is to connect to an existing network (one Ethernet connection is needed inside each ripening room; if more than one generator per room is necessary for proper ethylene levels, then a switch can be used for multiple Ethernet connections). Internet service is optional; this allows for the equipment to report to our Smart-Ripe® server for web-based access to rooms.

* SMS alerts are available based on local mobile operators' restrictions