

REGULATED ATMOSPHERE SYSTEM

CARGO PROTECTION AT AN
AFFORDABLE PRICE

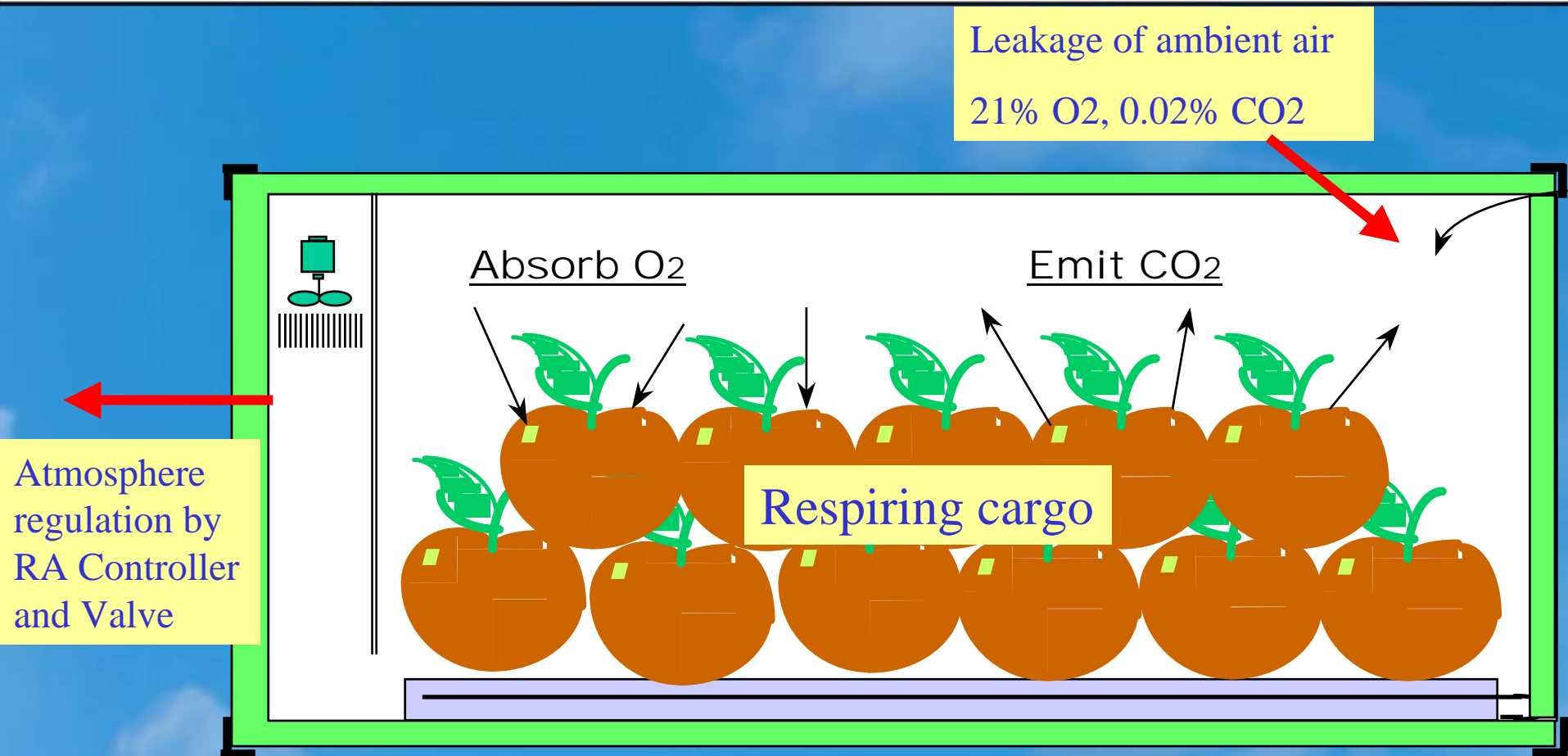
RA CONCEPT

- Cost-effective management of container atmosphere compared with CA
- Ideally suited for low value commodities such as vegetables
- Proven experience with Lettuce ex-USA to Taiwan, Singapore and Korea

RA CONCEPT

- Utilizes respiration of produce to generate gas internally within the container
- Active response system that monitors and automatically adjusts atmosphere based on changes in container gas levels
- Container atmosphere can be adjusted towards a pre-selected setpoint to suit each specific type of produce

ATMOSPHERE DYNAMICS IN RA CONTAINER



MINIATURIZED CONTROLLER

Low-power
miniaturized
MAXtend
controller



CONTROLLER

- Miniature low-power self-contained unit fitted over fresh air vents
- Ability to sense and adjust the atmosphere towards programmed setpoint in response to cargo respiration
- Active sensor avoids harmful gas levels

CONTROLLER

- External visual indication of container atmosphere and alarms
- Ability to initiate self-test of system operation

EASY INSTALLATION

Controller and valve
externally mounted



CO2 SCRUBBERS

If necessary
CO2 scrubbers
are placed on
the top of
the load



RA SYSTEM INSTALLATION

- Floor drains of Container are sealed externally
- RA controller and valve unit fitted on fresh air vents of a low leakage reefer container
- CO2 scrubbers needed for lettuce. These are placed on top of cargo

CONTAINER RESTORATION

- Done by Importer
 - CO2 scrubbers are removed and discarded
- Done by shipping line
 - MAXtend controller disconnected and kept aside for collection by MAXtend representative at destination
 - Floor drains unblocked
 - Warning label removed

TYPICAL RA GRAPH

Note: The black line shows a typical graph from a MAXtend Atmosphere Control shipment. The slope of the graph from an RA system will depend on the residual leakage rate of the container and may follow any of the green, blue or red lines. The lower the leakage rate of the container the quicker will be the rate of O₂ depletion.

