



VAN CA technology
AMERONGEN

Research Facility

This is Van Amerongen

From the heart of the Netherlands to orchards around the world, Van Amerongen has grown into a truly global CA technology brand. Today, our equipment and installations operate in over 60 countries, supporting fruit producers with reliable, high-performance Controlled Atmosphere solutions.

Dutch Company

Worldwide service

Scientifically Proven



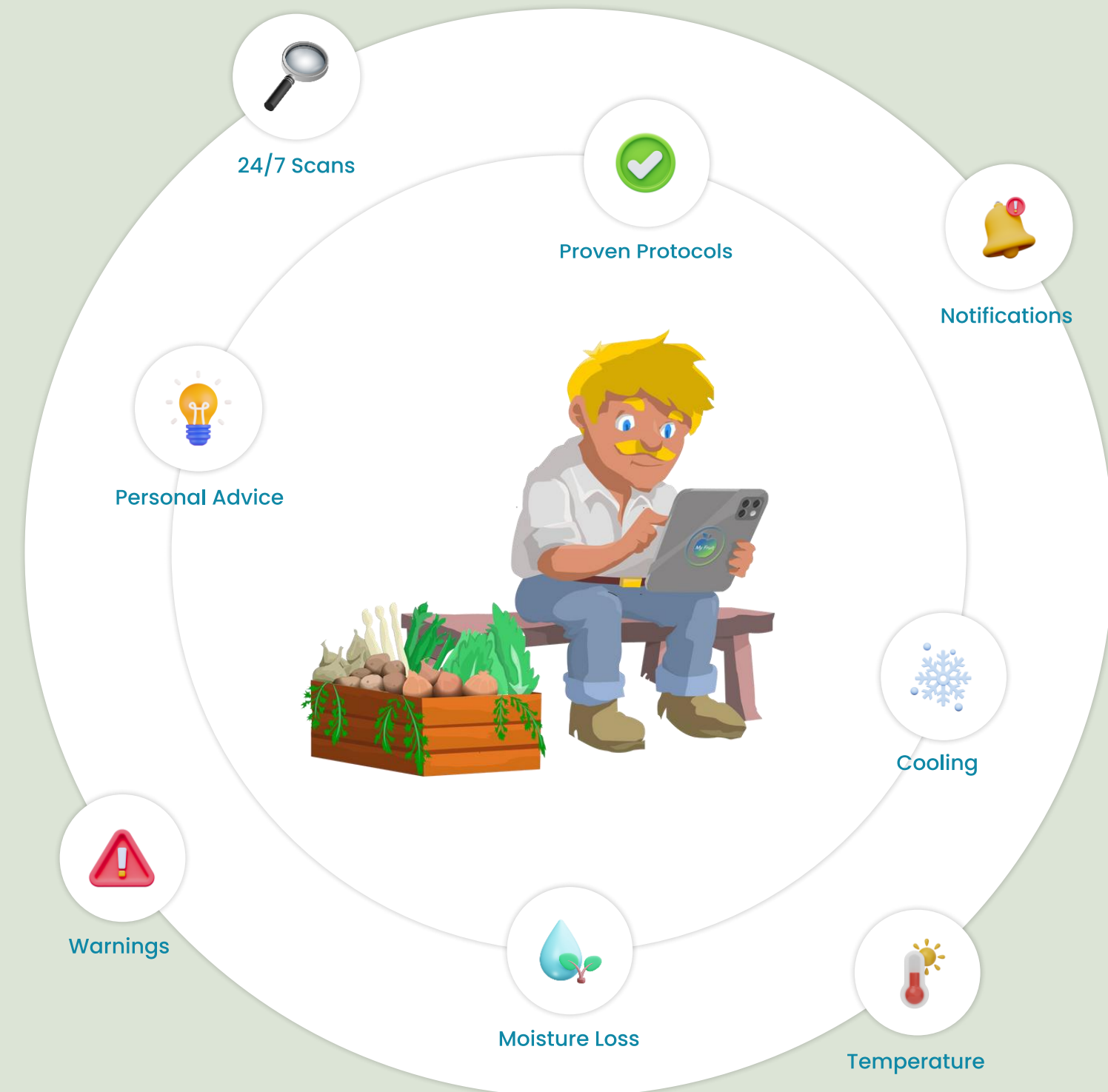
Our Research Partnerships



MyFruit Manager

For our CA-control systems (MyFruit), we have developed a large database containing data on the storage of fresh fruits. Collaboration with knowledge institutions such as universities, fruit consultants, and our customers is essential to continuously improve and update our smart MyFruit software and its storage protocols.

Through the MyFruit app, our customers remain continuously connected to their MyFruit CA-control system. Notifications, including alarms, are automatically pushed, enabling users to remotely verify whether the CA-installation is operating correctly and whether the stored fruit remains within the desired conditions.



Benefits for your business

The goal of fruit research is to understand fruit behavior during storage and shelf life.

While high-value fruit can be highly profitable, post-harvest losses due to quality issues remain a significant concern.

By conducting fruit research, it becomes possible to:

- Identify causes of quality loss
- Gather valuable data during storage
- Optimize Controlled Atmosphere (CA) conditions
- Develop effective protocols to maximize profitability in commercial operations



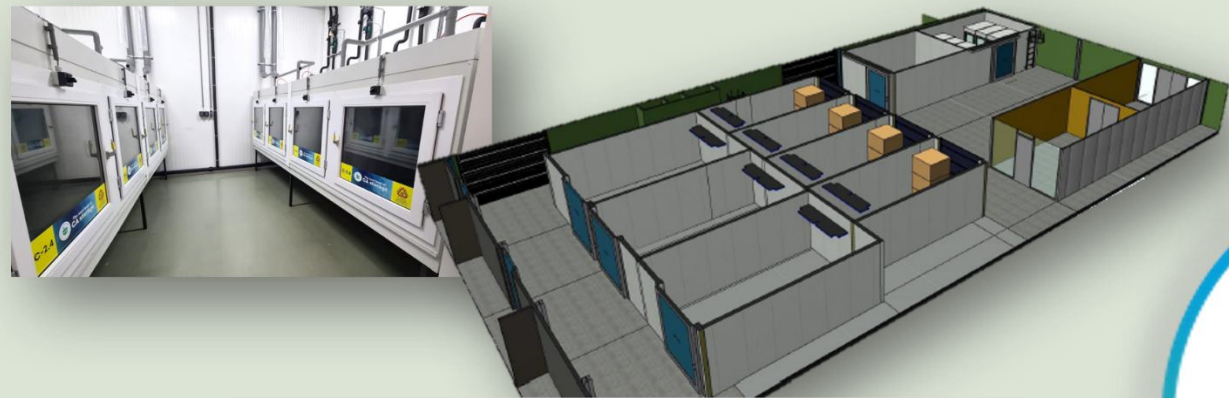
CA Storage results per fruit

■ Normal Atmosphere
■ Controlled Atmosphere

Storage period (week)



CA Research Facility Options



Multi Lab Unit



Flex Max Unit



**Respiration Box
/Container Lab Unit**



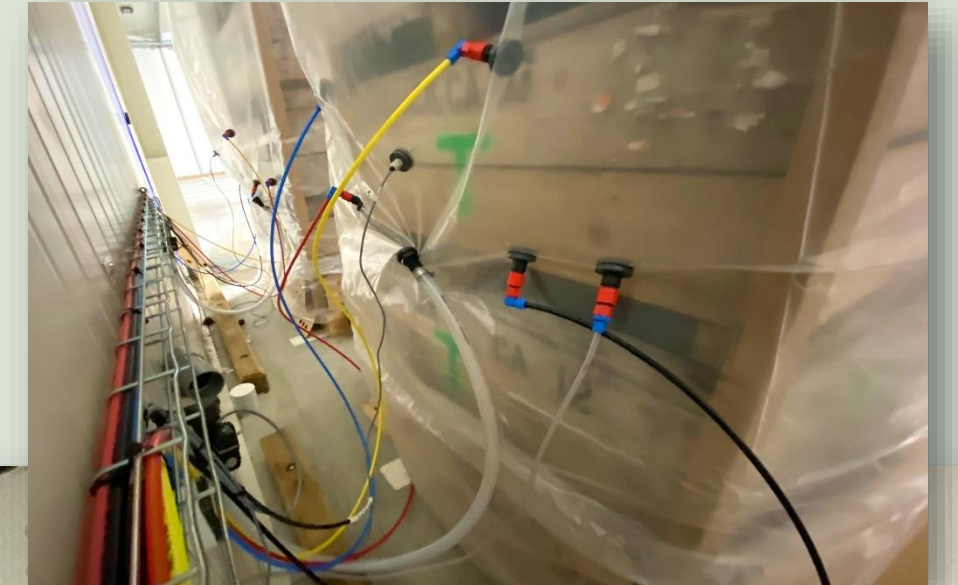
CA Testing Room



Flex Mini Unit

Flex Max Unit

- **High capacity:** Holds up to 800 kg of fruit per unit
- **Dynamic CA-ready:** Supports Active Control of Respiration (ACR)
- **Easy sampling:** Flexible sleeves allow quick and convenient access



Flex Max Unit | Including

- MyFruit control cabinet & software
- 20x Flex Max Units
- 20x Temperature measuring
- 20x RH monitoring
- 20x Overpressure safety valve
- N2 injection system
- CO2 injection / adsorption
- Ethylene removal
- O2 injection
- Digital pressure measurement
- ACR Dynamic storage



Flex max unit & Fruit sample sleeve



MyFruit control cabinet & Screen



N2 injection system



CO2 & Ethylene adsorber



Monitoring Temperature & RH & Pressure

Multi Lab Unit R&D Center

- 8x Multi-lab unit: 1-2m³/100-200kg of fruit per unit
- Small scale commercial room simulation
- Independent control:
 - Temperature (Glycol cooling system)
 - RH
 - Pressure
 - CO₂ & O₂ & Ethylene
 - Respiration (ACR)



WAGENINGEN
UNIVERSITY & RESEARCH

CA Testing Room R&D Center

- 1x Cold store (Cold stocking + testing)
- 4x CA room
- 3x Cooling room (High RH simulation, rootstock, plant growing test)
- Ripening & Degreening room
- Shelf-life room
- Office & machine room
- Central Glycol based cooling system



WAGENINGEN
UNIVERSITY & RESEARCH

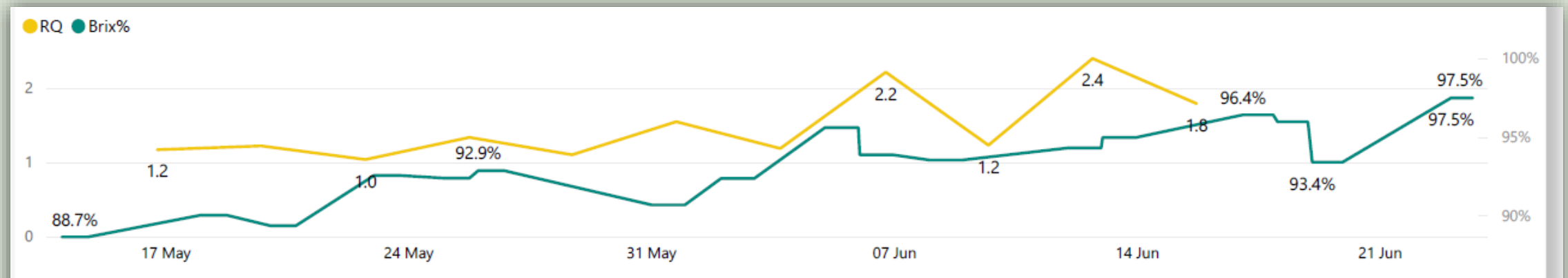
Container Lab – Poland

- 10x Respiration box: 1m³/ 150–200kg of fruit per unit
- Central CO₂/Glycol cooling system
- Refurbishment of 90 existing containers
- Independent control:
 - RH
 - Pressure
 - CO₂ & O₂ & Ethylene
 - Respiration (ACR)

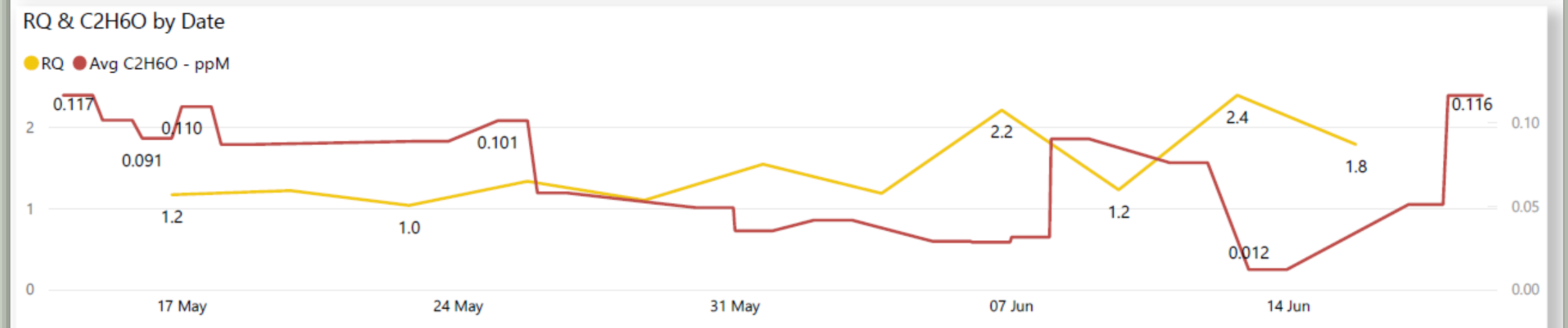


Data logging

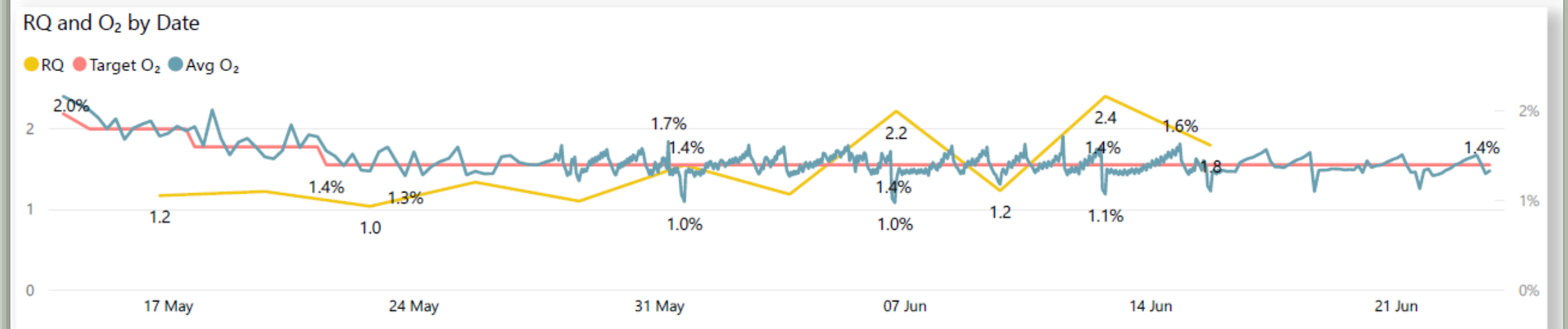
RQ & Brix



RQ & Ethanol Production

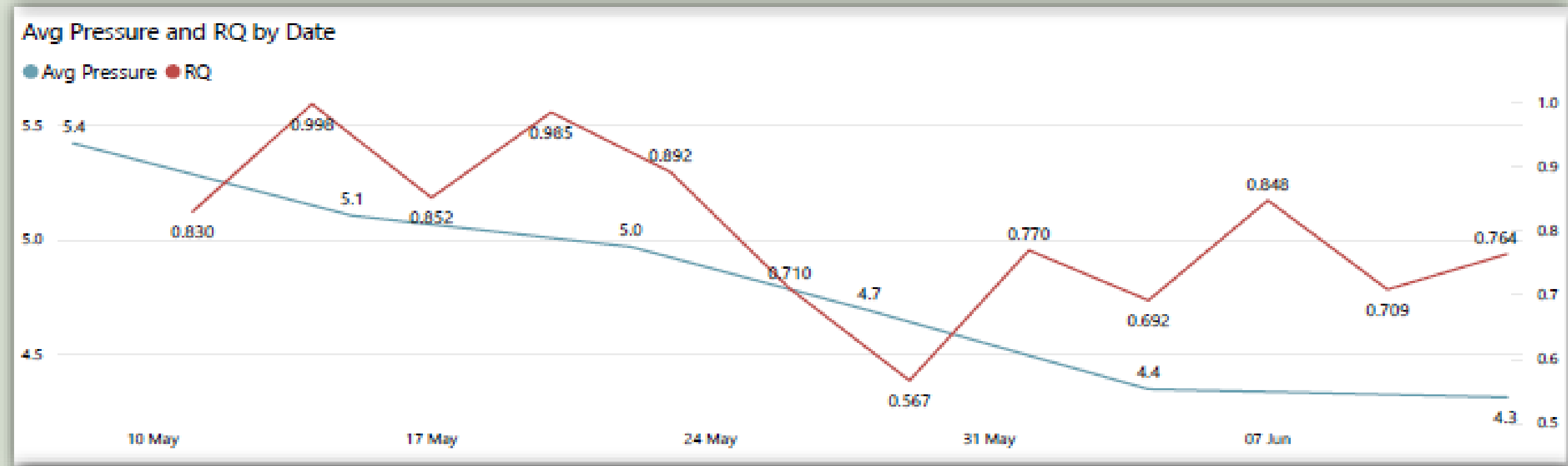


RQ & O2 level

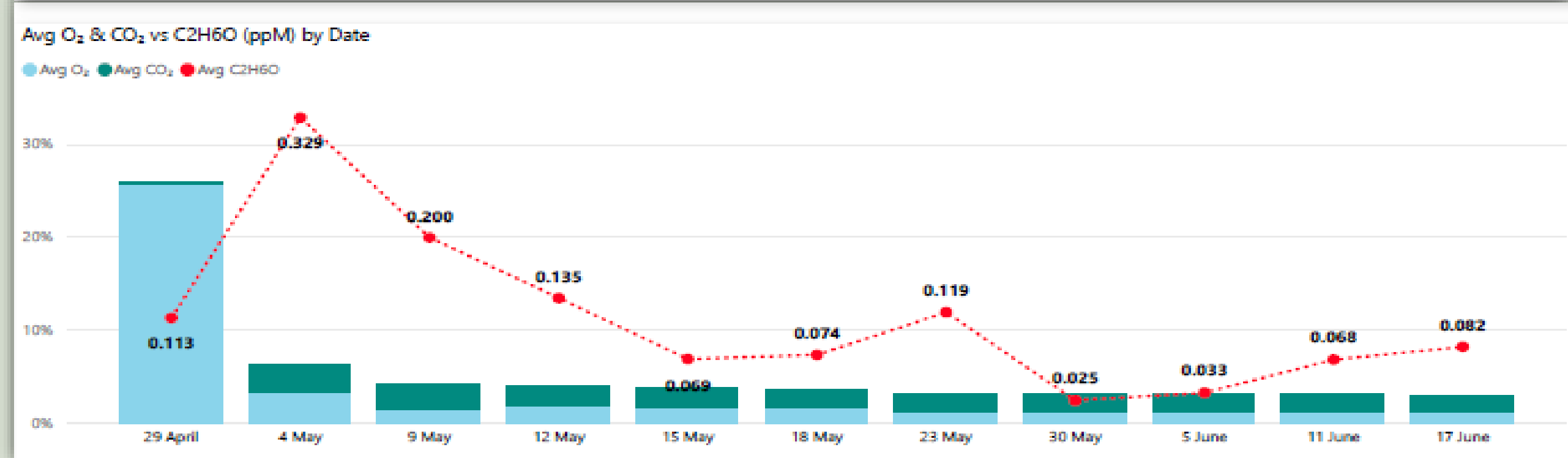


Data logging

Firmness & RQ



O₂ & CO₂ level
vs Ethanol Production



Container Lab Units

Wageningen WFBR
University of Stellenbosch
ExperiCo
Pingnan Agri. Tourism Co. Ltd
Agriculture Victoria Tatura
InHort Research Institute of Horticulture

Test products

Apple, Pear, Kiwi, Mango, Pomegranate, Melon, Cherry,
Blueberry, Vegetable.

Flex mini unit

University of Faisalabad
University of Talca
Akdeniz University

Test products

Apple, Mango, Mandarine, Banana, Pomegranate,
Tomato, Figs.

Location

The Netherlands
South Africa
South Africa
China
Australia
Poland

Location

Pakistan
Chile
Turkey

Container Multi Lab Units

University of Faisalabad
University of Talca
Akdeniz University
Wageningen PPO

Test products

Apple, Mango, Mandarine, Banana, Pomegranate.

Flex Max unit

Eastpack
Van Amerongen
ExperiCo

Test products

Sungold kiwi, Apple.

Location

Pakistan
Chile
Turkey
The Netherlands

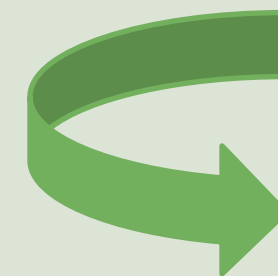
Location

New Zealand
The Netherlands
South Africa

Questions?

If you need assistance or want advice, please get in touch with us. We are happy to help you with any questions.

www.van-amerongen.com
info@van-amerongen.com
Biezenwei 6, Tiel
The Netherlands



Watch our webinar

