PROBA 5.
In control of ripening tropical fruit

World leaders in process control.
More comprehensive control with the new PROBA 5

Tropical-fruit retailers want their fruit delivered with a specific ripeness and in specific numbers. It is up to the professional suppliers to ensure that they meet their clients’ requirements. The PROBA 5 enables suppliers to control the total ripening process in their warehouses – a painstaking process that involves regulating temperature, gas concentration, humidity, ventilation and pressure – fully in line with the demands/requirements of their clients. To every last detail. The PROBA 5 will strengthen your competitiveness by enhancing the quality of your product...

VDH Products - continuous superior performance

VDH Products develops its products with guaranteed superior performance in mind. VDH interprets ‘superior performance’ as doing exactly what the user wants/needs the equipment to do, combined with durability and ease of use. This is exactly what our equipment provides and this has made VDH a leading global brand in high-quality control systems. VDH Products - no frills, just quality. Over 35 years of sustained superior performance in metering and measuring instruments and cooling technology worldwide!

The new PROBA 5

The PROBA 5 is the latest generation fruit ripening regulators for ripening chambers and the most recent addition to the successful PROBA series. Its predecessors have proven to be a true business asset worldwide, as they are reliable, versatile, economical and simple to use.

The PROBA 5 ripening system is the latest improved generation. It gives you even more comprehensive control and has been reprogrammed. The new PROBA ripening system enables you to connect more than 100 regulators, it is easy to programme and it has an Ethernet connection.

It simply does the job and it does it well. Above all, it is reliable, extremely reliable in fact and that is precisely what you need to ensure business continuity!
The PROBA 5 has been developed on the basis of the actual experiences of and feedback from professional ripeners. It has been tested extensively in the most difficult environments and it has passed the most stringent TÜV tests. The result is proven reliability. You are in control of the ripening process.

VDH has already supplied more than 8,000 operating systems for ripening chambers and has acquired comprehensive knowledge of the do’s and don’ts of the industry. The result is a truly professional system that offers you more ripening process parameter options than any other system in the market. You know better than anyone that perfect control means perfect products, and perfect products equal sales - time and again.

The PROBA 5 uses VASP software, which can be operated from a central PC in a control room. The software is quick and easy to set up to your requirements. It runs on your existing network server or a new, dedicated server. As all you need is a standard Java browser, special client software is no longer needed. Moreover, the PROBA 5 can also be controlled from a remote location via the Internet. This makes the PROBA 5 not only highly technically and operationally effective; it is also highly affordable.

The PROBA 5 is mounted in the central switch box or near the door of the ripening chamber. It monitors and regulates all the relevant stages and elements of the ripening process in the ripening chamber. Just enter the specific parameters of the intended ripening process on your PC and you are in control. Such parameter programmes are easy to create, as the interface of the PROBA 5 is unambiguous and 'intuitively' user-oriented.

Supplying perfectly ripened tropical fruit in bulk is not a simple business. It requires timing and flawless logistics. Why settle for less than perfect tools to achieve perfect business operations?
The PROBA 5 monitors and regulates the entire ripening process from the moment the tropical fruit arrives in the warehouse cells. It is an ‘intelligent’ regulator.

Ease of use for operator first and foremost

The VASP programme has been designed to be intuitive for the user, making it extremely easy and logical to use. All the relevant data, such as the ripening programme, log entries, and interim changes are stored in the ripening cycles and the batch database. The ripening process data are easy to retrieve and can be printed at any time, either as requested by the client or for management information purposes.

Independent of installer

As the values and settings of the PROBA 5 are freely accessible, you do not have to depend on one supplier or installer. With the extensive user control, you always remain in charge of your own system.

Creating specific ripening programmes

Creating your own ripening programmes is simple. The ripening process is shown in a graph. All the operator has to do is set, change or remove the required process values. New programmes are set up based on the required end date of the ripening process, the date agreed with your client. Once programmed, the programmes can be fine-tuned and adjusted in detail - you do not have to amend the standard programme.
Easy-to-create ripening programmes

You create a ripening programme by means of a graph. You can set, change or remove setpoints in that graph. You can have setpoint changes proceed by means of steps or a curve. When you start a new programme, you can select a programme depending on the required end date. You can subsequently fine-tune the programme each time without having to amend the standard programmes.

Ripening cycles

The ripening process starts automatically when a programme starts and stops once the programme is completed.

Manual batch management

Batches can be started and stopped manually; the programme allows the creation of custom fields in the batch database. Here you can enter batch-specific data, such as country of origin, tropical-fruit brand, number of boxes, etc.

Up to 100 regulators for up to 100 ripening chambers

The VASP programme allows the user to create four file tabs per location. Each tab regulates a maximum of 25 regulators. This helps you to keep the processes organised. The status of each regulator or ripening chamber can be seen at a glance. This set-up allows you to monitor and operate up to 100 regulators. And... with the PROBA 5 you can operate from more than one location!

PROBA 5 uses Ethernet for communication. The great advantage of this set-up is that the regulator can be incorporated into a network with standard network cables, standard connectors and standard switches. Simple to install and very affordable, another beneficial feature of this revolutionary new version!

Special functionalities

Personalised access

Access to the PROBA 5 can be personalised for a specific user base. Likewise, it is possible to specify which regulators can be seen by which users and which should remain hidden. The PROBA 5 VASP operating software is available in several languages. Ask your supplier.
**Alarms and warnings**

Something unexpected can always occur during a natural ripening process. When something happens to your product that is neither wanted nor anticipated, you want to know asap.

The PROBA 5 generates several alarms. Urgent response can be specified as well as follow-up actions. Alarms can be sent to and dealt with by the duty operator on site or a remote operator (by SMS or e-mail), if required.

**Management information**

PROBA 5 enables users to generate management information on the ripening process whenever required – by means of back-ups, data export or in print. These tasks can be executed automatically and periodically – daily, weekly, monthly, etc.

**Webpage for I/O assignment**

The PROBA 5 controller has its own web page, which makes it very easy to assign the inputs and outputs of the controller. A built-in configuration manager controls the assignments of the inputs and outputs to make sure everything is configured correctly.

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### Specifications

**PROBA 5:**
- Supply voltage: 12 VDC
- 10x Pt1000 temperature sensors
- 10x analogue inputs for e.g. gas and humidity sensors
- 16x digital inputs for door contact and external alarms
- 8x analogue output for e.g. three-way valves
- 24x relay outputs
- RS485 output to control unit
- I2C output for expansion module (ready for the future!)
- Ethernet connection for network

**PROBA 5 COMPACT:**
- Supply voltage: 12 VDC
- 4x Pt1000 temperature sensors
- 3x analogue inputs for e.g. gas and humidity sensors
- 8x digital inputs for door contact and external alarms
- 8x analogue output for e.g. three-way valves
- 6x relay outputs
- RS485 output to control unit
- I2C output for expansion module (ready for the future!)
- Ethernet connection for network

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**TÜV approved**

The new PROBA 5 has been tested by TÜV Rheinland (Germany) and fully meets their stringent requirements. An approval ID number has been issued, which is valid throughout the entire world.

PROBA 5 - A superior TÜV approved innovative ripening system, based on years of experience in the tropical-fruit trade.

A VDH product. Simply the best in the market!

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**Want to know more?**

Would you like to see PROBA 5’s superiority and versatility with your own eyes? Contact your dealer, installer or VDH Products BV today.