

ORBIS BV

Innovation in distillation

Agence Nord:

Campus Effiscience
2 Rue Jean Perrin - Bât D
14460 Colombelles
tél : 02.31.34.50.74
fax : 02.31.34.55.17



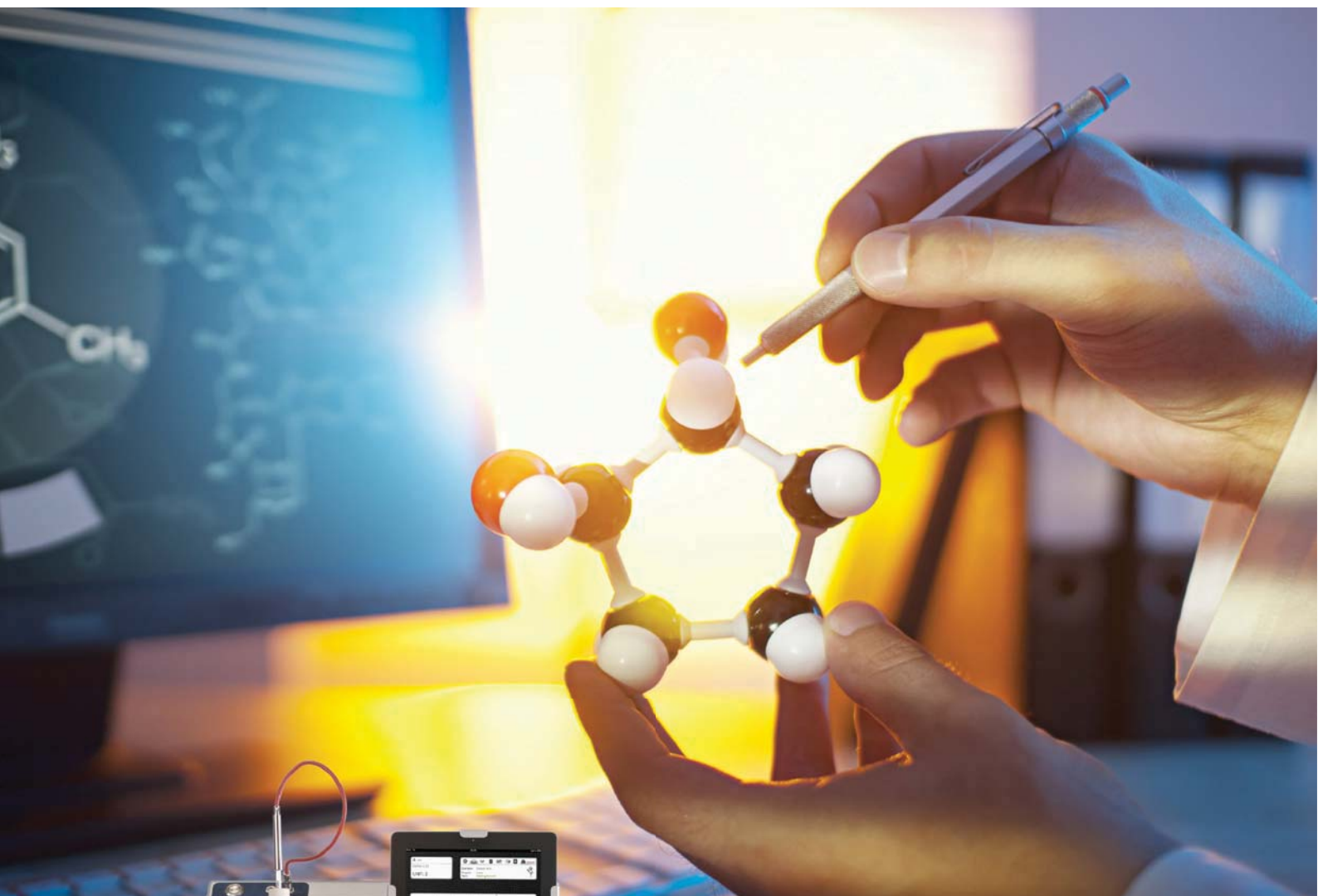
Agence Est:

Parc Club des Tanneries
2 Rue de la Faisanderie
67380 Lingolsheim
tél / fax : 03.88.04.01.81

Agence Sud:

Hôtel d'Entreprises de la Croix Rouge
Lot A4 - 10 Av de la Croix Rouge
84000 Avignon
tél : 04.90.27.17.95 fax : 04.90.27.17.52

www.deltalabo.fr
info@deltalabo.fr



PAM V2

Our newest distillation unit



“Development of new instruments is possible if you understand the specific needs of your customer.”

From CRT/LCD Screen to IPAD?!

A new way of operating the unit is required with the latest and fast technology on the market. No use of knobs to switch/ conventional touch screens but complete control of your distillation through an IPAD. The Pam v2 is the only laboratory unit in any industry that is operated by an IPAD!

Our software has pre-programmed autoD86 programs and consists of a set of major methods. New programs can be entered simply by choosing a method. Without further requirements the program can be used as it is upon completion of a test the instrument will indicate problematic areas and offers auto tuning or suggestions to improve the sample program.

The easiest way to update the software by simple downloading the update from the Apple app store. The unit will be installed in your lab by trained service engineers that will assist you to implement other sample programs you might need to run with your distillations.

Service engineer level login allows our trained engineers to optimize programs for extremely difficult samples with unparalleled performance levels.



Volume Scan

This revolutionary Volume-Scan is accurately measuring the true recovered volume at the bottom line of the meniscus, eliminating volume measurement errors. It offers you a higher precision and a better resolution.

Ring marks on the receiver are calibrated and used to automatically calibrate the volume scanner before each start of a distillation, avoiding the need to keep the receivers dedicated to an instrument.

Why did Orbis BV specifically choose to read the volume below the meniscus:

1. The apparent volume acts more calmly and stable which assures you of the precise reading of the measurement volume.
2. Test methods indicate reading the meniscus at the bottom. The well-known and preferred technique to be used.



Update the software by simply downloading it from the App Store!



Unparalleled simplicity and flexibility

Run your samples with ease using standard automated programs. Optimize performance with Auto tuning, problem indicators and suggestion tools. Run difficult samples with unparalleled program flexibility and custom program solutions provided by our in house experts.

PAM v2 Smart Distillation

Smart distillation, a feature indicating you at which points your sample is out of specifications. It will where possible autotune, advice and assist you to get the parameters right.



Auto calibration of the unit and temperatures

The unit will automatically calibrate the receiver before every distillation. Our receiver glasses are all calibrated at the specific calibration marks which the scanner reads at the start of a new distillation. Calibration and Verification reminders assist you to plan and keep track of required unit calibration and verifications dates.

Automatic search for start point of distillation for unknown samples

We call this feature the automatic in-heat procedure. We added this feature to PAM v2 to offer you the possibility to work time saving. The software will search for the right initial heat temperature for unknown samples offering you a perfect run right from the start for most of your samples. Auto tuning options assist you to easily generate dedicated programs for your samples with unparalleled precision.

Why do customers choose for the benefits of PAM v2 Distillation ?

- Reliable and precise test results support seeding ASTM D86
- Operated by the newest technology
- The most advanced software available with unparalleled levels of customization.
- Reinvented the volume follower using an Image sensor array imitating the human eye for optical detection of the meniscus bottom part with better precision.
- Solid state condenser and receiver cooling techniques with low maintenance requirements.
- Solid block receiver cooling bath to avoid evaporation losses from conventional circulating air baths.
- Multiple language support



Innovation in distillation

Affordable

Automatic search

Reliable & Precise

Advanced

Energy saving



Multiple language support



CCD volume scanning device

User friendly

Low maintenance

Temperature proof

Automatic updates

Smallest footprint

- Automatic search for initial heat power for unknown samples
- Affordable
- Automatic calibration of volume measurements system.
- Temperature probe with built in calibration memory.
- Energy saving components
- User friendly operation
- Low maintenance
- Automatic Soft and unit Firmware updates available online from the Apple app store
- Automatic distillation apparatus with the smallest footprint

New features developed!

Well devised and successfully tested unique details of PAM v2 unit besides all the other well known functions of today's automatic distillation equipment are for instance our new developed revolutionary Volume-Scan System. The volume scan is accurately measuring the true recovered volume at the bottom line of the meniscus, eliminating volume measurement errors.

Automatic residue determination

Automatic final heat adjustment

Possibility to change parameters of a sample before, during or after the distillation process.

Add customs points at any time of the distillation process without the need of calculating them by hand or the need to run the sample again.

Orbis BV also reinvented the temperature probe. Our so called Auto Cal-Probe is automatically detected by the PAM v2 distillation unit and identified with an unique ID number.

No use of compressor driven cooling machine requiring liquid refills but electronic Peltier elements. The Peltier elements used for cooling the condenser tube and receiver compartment has not only proven reliable operation in our PAM v2 but is widely known as the preferred technique.

No use of a stepper motor driven ml follower but electronic volume scanning device without any moving parts



Reference programs

You would like an overview of the repeatability of the samples you've run in the past with a certain program. Simply add any reference point to the program and the software will calculate the precision of the samples run earlier using this program and displays them as a reference sample in a tabular and graphical manner.

Custom Points and parameters

Pam V2 offers you the option to add any custom point or change parameters before, during or after the distillation. No longer the need to calculate any specific customized points yourself in case you've forgotten to enter them in your program. No need to run the distillation again to obtain these specific points.

ORBIS BV

Orbis BV offers analytical solutions for the (petro) chemical industry

With more than 30 years experience in the field of research, development, production and sales of innovative laboratory instruments for the (petro) chemical industry we are constantly improving the automatic atmospheric distillation units according to the ASTM methods D86, D850 and D1078. Orbis BV understands your basic needs of your laboratory!

Development of new instruments is possible if you understand the specific needs of your customer. Our research and development department listened to these needs and developed our newest distillation unit the Pam v2.

PAM V2

Unparalleled simplicity and flexibility

Orbis BV understands your basic needs of your laboratory! Contact us for a demo, if needed on location, to experience the full potential of the Pam v2.

ORBIS BV

de Regge 32 (Bruggeman Building 1-2)
8253 PG Dronten The Netherlands

Phone +31-321 382354

Fax +31-321 382357

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