



HETTICH BENELUX STABILITY CABINETS

- Optimal conditions
- Small footprint
- Low energy consumption
- Low noise level
- Optimal accessibility
- Safety
- Alarm and monitoring



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Pharmaceutical, chemical and cosmetic products are subject to very stringent directives for durability and stability. Hettich Benelux has been manufacturing 'Pharmaceutical Stability Cabinets' in-house for many years. All cabinets comply with the ICH Q1A directive. The stability cabinets are available in two standard volumes: PSC600 (566 liters) and PSC1400 (1250 liters). Customized sizes can also be produced. It is also possible to put together a combination of cabinets in one complete wall including floor and ceiling finish. Due to the wide variety of options and accessories, the stability cabinets can be manufactured according to customer's wishes.

The Hettich Benelux stability cabinets have been developed for the testing of pharmaceutical, chemical and cosmetic products according to ICHQ1A. They have accurate temperature and humidity control. Due to the unique air circulation system, any point on the shelf can be used to validate the product. The PSCs also have a small footprint.

For maximum energy savings the control systems have been programmed with a so-called 'neutral zone'. This zone is proportionally cooled or heated to the set value, followed by an energy-neutral interval during which no heating or cooling takes place. The use of ultrasonic humidification and well insulated housing results in a low energy consumption.

Thanks to the unique air circulation system an inner door on the PSC is not required, making the cabinet easily accessible. The drawers run on telescopic rails and the shelves are on guides; both are adjustable in height. The alarms are indicated by a green and red LED stripe above the door. Integration with our SYCL temperature registration system is optional.



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ENERGY CONSUMPTION & SAVING MONEY

The control system offers the possibility to set the temperature per 0.1 °C. For maximum energy saving, the control systems have been programmed with a 'neutral zone'. This is proportionally cooled or heated to the set value, followed by an energy-neutral interval in which no heating or cooling takes place. In addition to ensuring a constant temperature, this technique is many times more energy-efficient compared to conventional methods. Lower energy costs generate lower operating costs and a lower heat load on our environment. The PSC models only heat and cool when needed. The insulation is water-based and does not contain fluorinated hydrocarbons. The GWP value (Global Warming Potential) is one-thousandth of conventional insulation foams.

The adiabatic, ultrasonic humidifier produces cold mist from demineralised water. Fine droplets of water vapor with a size of 0.01 mm are immediately absorbed by the ambient air. This unit works without delay and requires 93% less electricity than conventional steam humidifiers.

The chart below shows the possible savings to be made when using the Hettich Benelux PSC 600 unit over estimated whole life of cabinet. Conditions in the PSC unit were temperature 25°C with 60% rH. Conditions in competitors units are unknown. Cost of kilowatt electricity was taken as € 0.21.

Model	kW per 24 hours	Whole life cost (euro)*	% savings achieved against competitor
PSC 600	11,9	€ 9.121,-	-
Competitor A	60	€ 45.990,-	80%
Competitor B	44,4	€ 34.032,-	73%

* 10 years

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FACTS & FIGURES

STANDARD OPTIONS



Hettich Benelux - PSC 600

- Dimensions: 710 x 980 x 2006 mm (w x d x h without handle).
- Internal volume: 566 liters.
- Exterior / Interior: stainless steel / stainless steel.
- Humidity system: ultrasonic.
- Interior: standard 4 solid shelves.
- Alarm: visual and LED alarm and potential free contact.
- Designed to conform to ICH Q1A and GMP guidelines.

- Drawers either 35, 100 or 150 mm deep.
- Grids or extra solid shelves.
- Independent monitoring system.
- Castors.
- Console with or without drawers.
- Acoustic alarm.
- Sensor for independent temperature or humidity monitoring.
- Left hinges door (type PSC 600).
- Water tank.
- IQ or OQ



Hettich Benelux - PSC 1400

- Exterior dimensions: 1420 x 980 x 2006 mm (w x d x h without handle).
- Internal volume: 1250 liters.
- Exterior / Interior: stainless steel / stainless steel.
- Humidity system: ultrasonic.
- Interior: standard 8 solid shelves.
- Alarm: visual and LED alarm and potential free contact.
- Designed to conform to ICH Q1A and GMP guidelines.



In 2011 Hettich Benelux originated from a merger between the companies Dépex (1946) and Elbanton (1986) and is located in Geldermalsen. Hettich Benelux specializes in the design, manufacture, installation and maintenance of climate equipment worldwide. In addition to customization, we also supply standard laboratory equipment, which we can adapt to your application thanks to our own engineering department.

As we design and manufacture the cabinets in house, we can adapt the standard PSC units to customer specifications. It is also possible to manufacture fully customised units.

- Pharmaceutical stability tests
- Cosmetics
- Foods
- Shelf life test

TAILOR MADE

APPLICATIONS



OTHER PRODUCT GROUPS:

ASPIRATION SYSTEMS
AUTOCLAVE & STERILISERS
CENTRIFUGES
FLOW CABINETS
HYPOTHERMIA CABINETS
INCUBATORS & ACCESSORIES
CLIMATE CABINETS & CHAMBERS
REFRIGERATORS & FREEZERS
MEDIA PREPARATORS
MONITORING SYSTEMS
OIL & WATER BATHS
OSMOMETERS & DAIRY EQUIPMENT
OVENS
PLANT GROWTH CABINETS
LABORATORY GLASSWARE WASHERS
THERMOMIXERS, THERMOBLOCKS & SHAKERS
VACUUM CONCENTRATORS
FREEZE DRYING