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Function

It is now over 30 years since Harstra was commissioned by a breathing mask/ facemask manufacturer to develop and manufacture an entirely new type of drying cabinet. This cabinet had to distinguish itself from the existing cabinets already available on the market. After months of test work and research, they succeeded in manufacturing a product that met customers' requirements.

In 2024, a complete re-design of the drying cabinet took place and the cabinets are now entirely made of stainless steel. Produced using modern production methods and, because of the all-stainless steel housing, very durable in terms of service life and recycling after the end of its service life. In fact, stainless steel is extremely suitable for complete recycling.

Description

The great advantage of our drying cabinet is that it dries fully automatically whether there are 45 masks or 6 SCBA's in it, the electronics in combination with the software determines when the masks are dry, and then turns off automatically.

Time-based drying is also possible, you can set the time between 1 minute and 99:58 hours.

The drying cabinet is designed for a low temperature but a large air vortex inside the cabinet (a higher temperature is damaging to the masks and SCBA's).

Warm air recirculates inside the cabinet, with humid air leaving the cabinet at the top and clean air drawn in at the bottom through an inlet filter. The air outlet at the top of the cabinet can be connected to an extraction system.

There is optimum thermal insulation with a minimum thickness of 30 mm between the inner and outer walls, with the second advantage that the cabinet is also noise-friendly in use.

In type M 45B, 5 stainless steel wire baskets and 2 hang-up rack's for SCBA's (AM02) are supplied as standard. There is a stainless steel drip tray at the bottom of the cabinet. The solidly insulated door with magnetic tape closure ensures a tight seal.

Four sturdy, adjustable feet ensure the stability of the cabinet.

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Technical details:

All electronic switching is done by a micro-controller that processes the data for both the thermostat, temperature gauge, humidity measurement, timer, heating element and fan.

The temperature range of the cabinet goes up to 58°C and is adjusted to 52°C.

The temperature is read by digital LED display with an accuracy of 1°C

Temperature protection is provided by an additional thermostat (switch-off point approx. 62°C).

The timer is adjustable from 1 minute to 99:58 hours, the time to elapse can be read on the LED display.

Thanks to a unique recirculation system as well as optimum insulation, energy consumption of approx. 0.4 kW/h (measured over 3 hours including warm-up time) can be achieved.

The dryers can be connected to the normal 230 V mains supply and are fused at 16 amps. The door can easily be hung on the left or right.

Maintenance:

The drying units are extremely easy to maintain and hygienic to use.

The lifespan of the heating element is extended and maintenance costs are kept low because the heating element is controlled by a solid state relay (without mechanical parts).

The inlet filter should be replaced at least twice a year or when the message CHANGE FILTER appears on the screen. This message appears after 500 operating hours.

Model:

M45B for a maximum of 45 masks or 10 SCBA's. Our a combination of this like 5 SCBA's and 18 masks

Advantages compared to other drying cabinets:

- Fully automatic drying of time-based drying
- Designed for drying masks and devices
- Extremely low consumption of electrical energy
- Large capacity of masks
- Easy to operate; one-button operation
- Quiet during operation
- Maintenance-free
- Long service life
- Entirely stainless steel

Specifications

Dimensions	: height x width x depth in mm.
External	: 1680 x 602 x 600
Internal	: 1400 x 542 x 500
Content	: 380 liter
Net weigh	: 100 kg.
External	: Stainless steel
Internal	: Stainless steel
Doors	: 1 Piece
Door sealing	: magnetic strip
Drip tray	: polished stainless steel
Adjustable legs	: 4 pieces., adjustable for stability and spirit level
Insulation	: glass wool, min. 30 mm thick
Temperature range	: up to 58°C. set at 52°C. by manufacturer
Second temperature	: self-adjustable
Temperature reading	: digital LED reading
Expiring time clock	: digital LED reading, set between 1 minute and 99:58 hours
Electronic temperature control	: 2 pieces PTC sensors, solid state relay
Electronic moisture measure	: capacitive sensor
Temperature safeguard	: extra thermostat (max. 62°C.)
Heating	: direct heating, approx. 2 kW
Air circulation	: by means of 1 low-noise ventilator
Air refreshment	: by air outlet on top of the cabinet, PVC tube of \varnothing 32 mm
Air inlet	: at bottom of the cabinet through a filter
Filter	: Class F5, EN 779
Capacity	: 5 pieces wire baskets, stainless steel and removable 2 hang-up frames
Standard wire baskets	: max. 9 masks/ face pieces, total 45 pieces
Hang-up frames	: 2x 5 SCBA's
Drying time	: approx. 2 hours, depending on the number of masks and amount of moisture



Connections

Mains connection	: 230 Volt AC, N + PE, 50-60 Hz.
Power	: approx. 2,1 kW, secured 1 x 16 Ampere
Electricity consumption	: average 0,4 kWh

Delivery terms

Times of delivery	: on stock
Terms of delivery	: ex-factory Zeewolde, the Netherlands
Guarantee	: 12 months for materials

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Optional Accessories

AM02 : Stainless steel hang-up rack for 5 SCBA's
(2 of this will be delivered with drying cabinet M45B)

