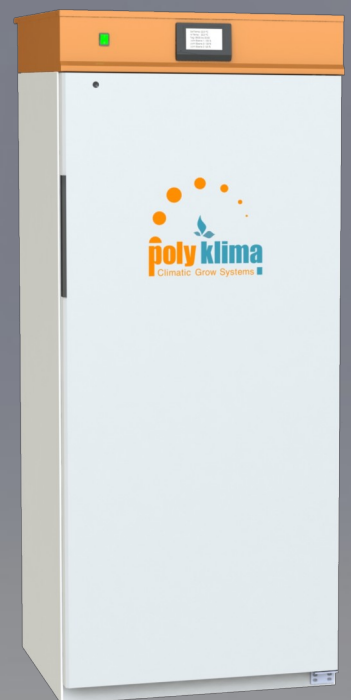




# Plant Growth Chamber PK520



## Product Datasheet

The PK-520 climate chamber was specially developed for applications that with a low investment volume require stable and consistent environmental conditions and has a volume of approx. 520 liters.

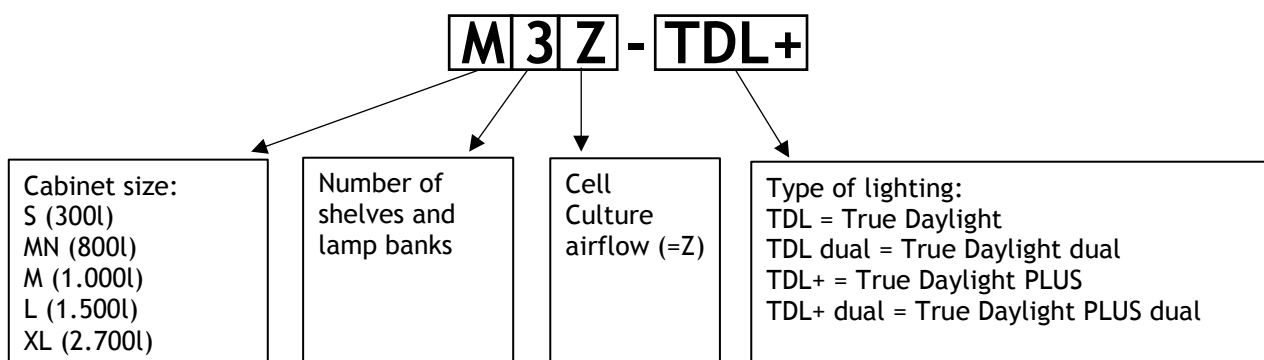
### Overview of sizes



### Nomenclature of the poly klima cabinets

The first letter reflects the model-type. The number after the model letter stands for the number of shelves and lighting levels. Another letter indicates a possible special equipment of the climate chamber (e.g. a "Z" after the number stands for cell culture equipment resulting in a vertical air flow). The last abbreviation provides information about the type of lighting.

A cabinet with the designation M3Z-TDL+ is an M model with a volume of approx. 1,000 liters, 3 levels, 3 lamp banks and cell culture airflow. TDL+ stands for poly klima True Daylight PLUS LED-lighting in this chamber.



## Product Highlights



- **Made in Germany**
- **Lowest energy consumption**
- **Extensive standard equipment:**
  - Lamp banks separate dimmable and switchable
  - Dehumidification
  - 4,3" Industry-standard touchpanel.
  - Lighting levels and shelves can be adjusted in vertical position without the help of tools
- **Service and maintenance friendly**
- **Very low operation noise at 55 dB**
- **Low acquisition costs**
- **Min. 15 years availability of spare parts through the use of industrial components**

## Technical Data

**Outer Dimension:** 740 x 760 x 1.790 mm (W x D x H)

**Weight:** around 75 kg

**Volume:** around 520 l

**Inner Dimension Variations:**

| Type   | Number of lamp banks | Number of shelves | Grow area total    | Growing height |
|--------|----------------------|-------------------|--------------------|----------------|
| PK-520 | 3                    | 3                 | 1,0 m <sup>2</sup> | 340 (310*) mm  |

\*with cell-culture equipment

**Air conditioning:** very energy-efficient refrigeration system, air -cooled.

**Temperature:** +10°C until +35°C (maximum temperature variance of 1,0°C)

**Intuitive operation:** 4,3" Industry-standard touch-panel directly at the cabinet

**LED-Lighting solutions**

- poly klima True Daylight White-LED
- poly klima True Daylight PLUS White-LED

**Light intensities:** up to 300  $\mu\text{mol}/\text{m}^2/\text{s}^{-1}$  per lamp bank.

**Dimming:** Each lamp bank and each light channel is dimmable from 100% to 10 %

**Electrical connection:** 230VAC/1/50, fused with a 16A time-lag fuse (C or K characteristic), max. 270 W/h energy consumption

## Design

Optimal Light Distribution - the growing compartment is coated with white, reflective and UV-resistant plastic. The LEDs have a radiation angle of  $120^\circ$ , which results in best possible light homogeneity on the shelves.

Energy efficient - The walls, the floor and the lid, as well as the door are PUR foamed without thermal bridges.

Practical - The vertical position of the lamp banks and shelves can be changed easily and without tools.

Corrosion protection - deep drawn inner compartment from white high-reflective plastic.

## Options

Cell-culture airflow special airflow below the shelves to avoid condensate-drops on lids of petri-dishes or the like.

Cable Port, resealable opening in the side wall for cables or hoses.