

# Climatic chambers

## Climatic chambers with phytotron system

### Application

- plant and fungus growing
- seeds germination
- microorganisms and insects breeding
- photostability tests
- food preservation experiments
- all research and tests that require stable temperature and humidity conditions (optionally light)



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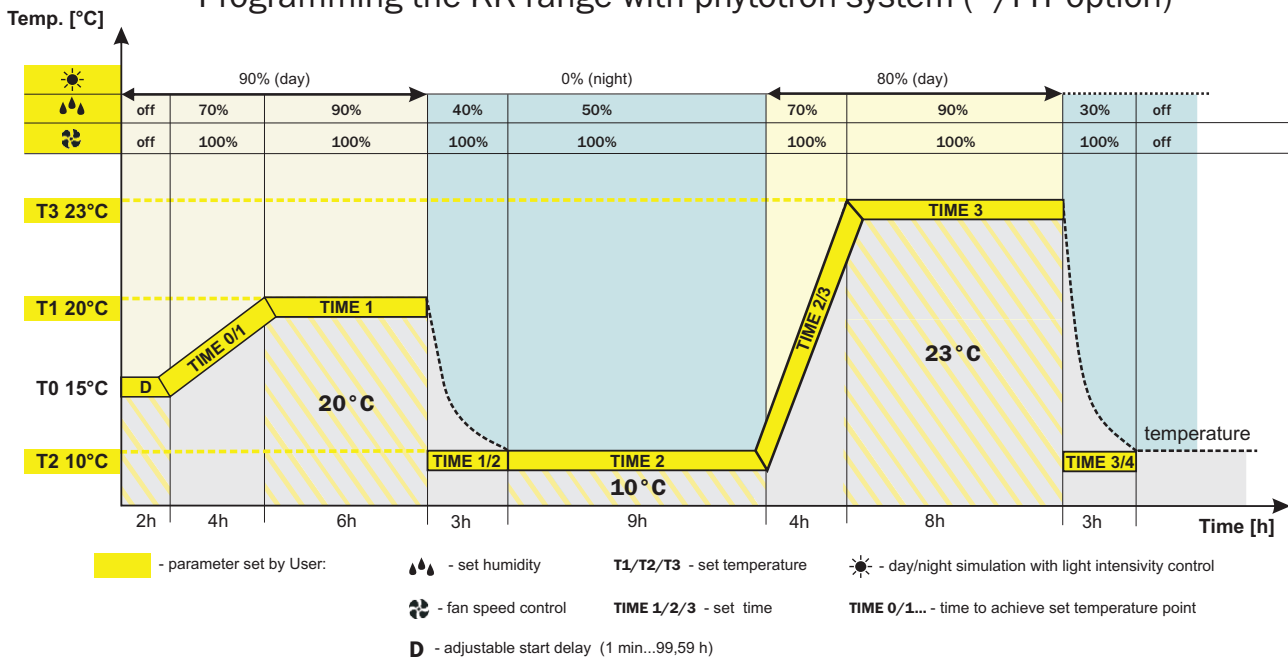
### Advantages

- available in STD and TOP+ versions
- chamber capacity from 112 to 1365 litres
- stainless steel interior
- housing, depending on model: powder coated sheet, stainless steel linen finish (**INOX/G**) or polished (**INOX/S**)
- forced air convection
- fan speed regulation from 10 to 100%
- heating and cooling systems to hold the set temperature regardless of ambient conditions
- thermal insulation - polyurethane foam
- automatic defrosting function (see page 64)
- LCD time and temperature display in STD version; LCD touch screen in TOP+ version
- microprocessor time, temperature and humidity control (light intensity control optionally - \*/FIT option)
- temperature and humidity sensor fail alarm (see page 56)
- power failure control system (see page 56)
- real time clock
- sound alarm (see page 56)
- self check function (auto control)

### Program possibilities

- STD version (see page 26)
- TOP+ version (see page 27-28)

#### Programming the KK range with phytotron system (\* /FIT option)



### Climatic chambers

- time, temperature and humidity control
- temperature range: -10 to +60 °C

### Climatic chambers with phytotron system (\* /FIT option)

- time, temperature, humidity and light control
- lighting system: day and night simulation system with smooth light intensity regulation (every 10%):
  - placed in the door and in the side walls for KK 350
  - fixed as over-shelf lighting system with smooth brightness regulation for KK 115, 500, 700 and 1200
- temperature range - lighting off: -10 to +60 °C
- temperature range - lighting on: +10 to +50 °C
- light colour selection
- illumination power of up to 15 000 LUX per shelf (measured in geometrical center of the shelf placed 25 cm under lighting system)

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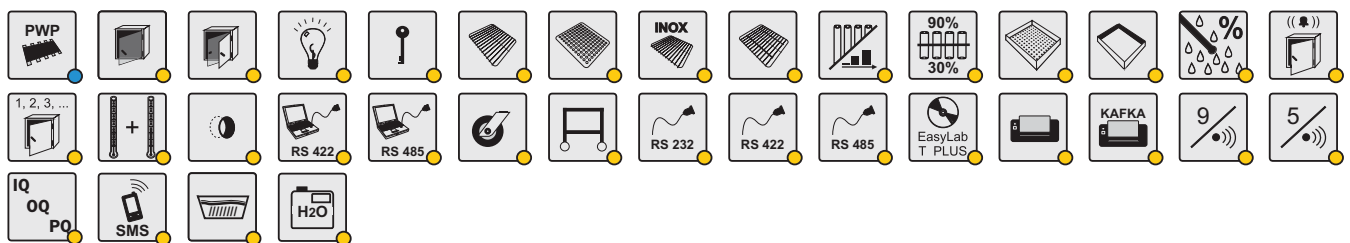
KK 350 STD interior

Temperature and humidity sensors in the interior of a climatic chamber.

### Standard equipment

- solid door
- wheels with brakes
- RS 232 interface; RS 232 cable must be purchased additionally (RSK)
- stainless steel wire shelves (2-6 pieces, depending on the model) with slides set
- manufacturer's test certificate at 25 °C and 60% humidity
- operation manual in English and English menu (other languages on request)
- over temperature protection according to DIN 12880: class 3.3
- container for deionized water
- container for waste water

### Options and accesories (icon description see page 51)



● for STD only   ● For STD and TOP+

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Chambers of this kind can be also produced according to customer's requirements.

### Available options

- KK\*/A** - external glass door
- KK\*/C** - internal glass door
- FIT** - phytotron system

Model		KK 115	KK 350	KK 500	KK 700	KK 1200
Parameter						
air convection		forced				
chamber capacity <sup>1</sup>	[l]	115	335	493	625	1365
	[cu ft]	3,9	11,8	17,4	22	48,2
door type		solid / glass or double <sup>2</sup> (option)				
temperature range [°C]	-	-10...+60				
	FIT version	+10...+50				
temperature range [°F]	-	+14...+140				
	FIT version	+50...+122				
humidity range [%]		30...90 (with temperature range +10...+60)				
lighting	FIT version	lamps in the ceiling	in door and walls	shelves with over-shelf lighting		
controller		microprocessor with external display				
interior		acid-proof stainless steel according to DIN 1.4301				
housing		powder coated sheet / stainless steel (INOX/G or INOX/S)				
overall dims [mm]	width.	650	710	635	720	1435
	height	1095	1980	2010	2010	2010
	depth	650	750	925	970	970
internal dims [mm]	width	460	500	510	600	1310
	height	540	1340	1525	1510	1510
	depth	450	500	635	690	690
nominal power [W]		400	2400	2400	2500	3500
weight [kg]		90	125	130	170	220
temperature resolution [°C]		every 0,1				
over temperature protection		class 3.3				
voltage 50/60 Hz [V]		110-120/220-240				
shelves fitted / max	wire	2/7	3/11	3/11	3/11	2 x 3/11
	with lighting	1/2	-/-	1/3	1/3	1/3
max lighting power [lux]	FIT version	5000	15000	15000	15000	15000
warranty		24 months				
manufacturer		POL-EKO-APARATURA				

1 - working capacity of chamber can be smaller  
2 - glass inside, solid outside