TK SERIES

Test Cabinets

TK Series Test Cabinets are developed for simulating real environmental conditions by controlling temperature, humidity and day-night lighting cycles.

DESIGNED FOR DIFFERENT APPLICATIONS

By means of the wide range of temperature and humidity control, various kind of products can be tested at different climatic conditions. Stability, artificial aging and storage tests can be easily done as well. The excellent design of TK series Test Cabinets allows them to be used for different purposes in different sectors such as:

- Electronic industry
- Automobile industry
- Telecommunication industry
- Automobile supply industry
- Chemical industry
- Plastic industry
- Textile industry
- Pharmaceutical industry
- Food industry
- Packaging industry
- Plant growth
- Genetic manipulations of plants
- Seed germination
- Cultivation of protoplasm and cells
- Acclimation of plants
- Culture of plant cells and tissues
- Incubation and rearing of insects

DURABLE AND RELIABLE DESIGN

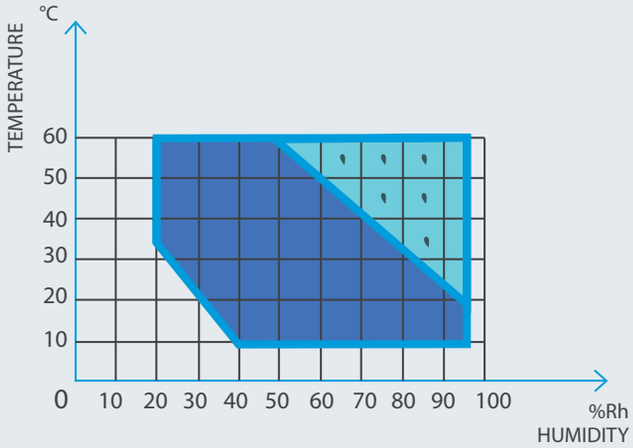
• Stainless steel chamber resisting sudden temperature changes

• Outer body including the door made of epoxy-polyester coated stainless steel to resist high humidity levels

• Insulation consisting of high density injected polyurethane

• Internal glass door for controlling the samples inside without disturbing the climatic condition in the chamber

• Ø25 mm. access port as standard



CLIMATIC CONTROL SIMILAR TO NATURE

- Lighting by means of the lights located inside the door
- Programmable timer lighting
- Humidity generator to obtain high level of RH
- Sensitive humidity measurement by humidity sensor
- PID controlled heating and proportional controlled cooling and humidification
- Powerful air circulation system maintaining temperature and humidity uniformity and stability even at low temperatures

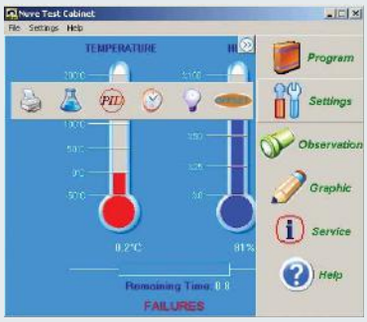
SENSITIVE CONTROL SYSTEM

- Full information with 128x64 pixel LCD display
- Ten program memories for frequently operated applications
- Programmable parameters :

- Temperature: -10°C / +60°C
- Humidity: 20% - 95% RH
- Time: 0-999 hours 59 minutes and hold position
- No. of steps: 1-9
- No of program repetition: 1-99

- Comprehensive self-diagnostic system to provide information regarding any malfunction for:

- Overheating	- Temperature sensor failure
- Cooling system failure	- Humidity sensor failure
- Communication failure	- Low water level
- Power failure	- Full reserve tank



- 32 KB memory which can be upgraded to 256 KB as option
- Optional NuveClimate™ software for programing and controlling the operation via computer
- Printer connection for printing operated programs in the memory and the current operating program
- RS 232 port for PC connection
- For ultimate security optional AlerText™ sends a text message to mobile phones

TECHNICAL SPECIFICATIONS

	TK 120	TK 252	TK 600
Chamber Volume, litres	120	252	632
Control System	Programmable Microprocessor Control System		
Display	128x64 pixel LCD display		
Temperature Range without Humidity	- 10°C / +60°C (Lights off)		
	0°C / +60°C (Lights on)		
Temperature Range with Humidity	+ 10°C / + 60°C		
Humidity Range	20% / 95% RH		
Temperature Set and Reading Sensitivity	0,1°C		
Humidity Set and Reading Sensitivity	1% RH		
Maximum Light Level, lux	6.000	12.000	12.000
Timer	1-999 Hours and 59 Minutes and Hold Position		
Lighting Timer	0-24 Hours		
No of Program Memory	10		
No of Steps	9		
No of Program Repetition	1-99		
Memory Capacity	32 Kb		
No of Shelves Standard/max.	2 /16	3/21	3/27
Internal Material	Stainless Steel		
External Material	Epoxy-Polyester Coated Stainless Steel		
Power Consumption	1.400 W	2.000 W	3.000 W
Power Supply	230 V, 50/60 Hz.		
Internal Dimensions (WxDxH) mm.	480x545x480	480x545x990	740x650x1350
External Dimensions (WxDxH) mm.	680x820x1150	680x820x1850	985x935x1990
Net/Packed Weight, kg.	125/148	175/197	290/329

FACTORY FITTED OPTIONS

TK XXX W	NuveGrowth™ data control software and RS 232 interface
TK XXX A	Automatic water supply unit
TK XXX R	Remote alarm outlet
TK XXX R2	NuveWarn™ remote alarm system with 10 m. cable

ACCESSORIES

R 01 139	Shelf for TK 120/252
K 23 077	Shelf carrier for TK 120/252(right)
K 23 078	Shelf carrier for TK 120/252 (left)
R 01 165	Shelf for TK 600
K 23 079	Shelf carrier for TK 600 (left)
K 23 080	Shelf carrier for TK 600 (right)

Note: Separate shelf rails must be ordered for each shelf, left and right.

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ISO 9001: 2008
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CE