



MBD SERIES PLANT GROWING CABINETS

**Production of
Custom Sizes and
Features*

MBD Series Plant Growing Cabinets are designed to artificially simulate and control real environmental conditions by controlling temperature, humidity, day and night lighting cycles for testing different materials, products and components. These cabinets, which are suitable for stability, stability, artificial aging, storage, shelf life tests and storage etc. tests, are also used for different purposes in different sectors;



Electronics Industry



Automotive Supply Industry



Aviation and Livestock Industry



Chemical Industry



Plastics Industry



Textile Industry



Pharmaceutical Industry



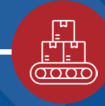
Construction Materials Industry



Food Industry



Defense and Weapons Industry



Packaging Industry



Agriculture

BEST CLIMATE CONDITIONS

The large viewing windows allow observation of the samples without affecting the humidity and temperature values operating inside the cell. Considering the cold and hot test temperatures, insulation is of great importance for the efficiency of the product, MBD Series Plant Growth devices are insulated with injected high density polyurethane. Humidity is provided by a humidity generator and measured by a humidity sensor inside the cell. In this way, the most precise measurement of humidity is ensured. Temperature is controlled by PID, humidification and cooling by proportional control system.

In addition to the fault diagnosis system, there is an adjustable safety thermostat used for heating.

The powerful air circulation provided by the fan ensures very good temperature and humidity distribution and stability even at low temperatures.

There is a fast recovery time after the door is opened and closed.

UNIQUE LOCK SYSTEM

Two-point lockable lock provides ultra tightness and security.



STRONG AND UNIQUE DESIGN

Appropriate materials have been selected in the construction of the device to ensure superior durability, quality and reliability. The cell is made of 304 Stainless Steel and the outer body is made of epoxy painted galvanised steel so as not to be affected by high humidity.

IMPROVED CONTROL SYSTEM

- MBD Series Plant Growing device is equipped with advanced microprocessor control system.
- The user panel of the device has a Liquid Crystal Display (LCD).
- MBD Series Plant Growing Cabinets can be connected to a computer via RS 232 connection.
- Production is carried out in accordance with TS EN 61010-1 (Safety rules for electrical equipment used in measurement, control and laboratory) standard.
- In addition, the refrigerant gas and insulation material used in MBD Plant Growth Cabinets are environmentally friendly and do not contain CFC.



Programme Memory : The device has 24 programmes and 99 programme repeat memory.

Temperature Value : -20 °C /+80 °C

Humidity Value : %20-%95 Rh

Lighting : 0-24 hours, 2 periods lighting on, 2 periods lighting off.

Time : 0-999 hours 59 minutes and indefinite operation.

Alarm : The user is warned when the set values are exceeded.

	MBD-250	MBD-600	MBD-1000
USABLE VOLUME	250	600	1000
SHELF NUMBER	3-10	3-12	4-15
INTERIOR SURFACE STRUCTURE	Stainless Steel		
EXTERNAL SURFACE STRUCTURE	Electrostatic Powder Coated Steel Against Rust		
TEMPERATURE OPERATING RANGE	10 °C / 80 °C (without humidity and without illumination) --- 10 °C / 80 °C (with illumination)		
HUMIDITY OPERATING RANGE	15% - 98% Rh (between 10 °C / 80 °C)		
INSTALLED POWER	1000 W	2000 W	2500 W
TEMPERATURE SENSOR	PT-100		
CONTROL SYSTEM	PID & MP		
TEMPERATURE SETTING AND READING SENSITIVITY	± 0,1 °C		
HUMIDITY ADJUSTMENT AND READING SENSITIVITY	1 % Rh		
TIMER	1 Minute. - 99.9 Hours + Indefinite Operation		
INTERIOR DIMENSIONS (WIDTH*LENGTH*DEPTH) mm	565x1010x485	740x1180x715	11200x1500x600
OUTER DIMENSIONS (WIDTH*LENGTH*DEPTH) mm	840x1730x810	1020x1880x970	1460x2220x870
LIGHT VIOLENCE	15.000-20.000	15.000-20.000	15.000-20.000
NET WEIGHT (kg.)	220	200	370
PACKED WEIGHT (kg.)	230	310	380

OPTIONAL REQUESTS

- Production in Special Dimensions and Specifications (Dimension/Software/Programme),
- 4.3 / 5.5 and 7.2 Inch Screen Options,
- Light options for powerful device illumination,
- Wavelength adjustable led lighting for special works,
- Remote access and control (Remote Access),
- UV Lamp option,

**You can get information for your specific requests.*

- CO2 control and reading,
- Automatic water supply unit,
- 20°C - 100 °C,
- Special lighting,
- Telephone, sms module,
- Side port input.