GC 401
GROWTH CHAMBER
POWERED BY N-Wise™

- Advanced technology for tests at different climatic and lighting conditions such as plant growth, seed germination, acclimation of plants, culture of plant cells and tissues, genetic manipulations of plants, cultivation of protoplasm and cells, incubation and rearing of insects
- Chamber volume: 316 liters
- Wide range of temperature control:
 -10°C / +60°C (lights off), 0°C/+60°C (lights on)
- Programmable humidity range:
 20 % / 90 % Rh (between +10°C and +60°C)
- Chamber made of stainless steel and glass window in the two sides
- Double layer LOW-E type glass for perfect light transmittance and insulation
- High density injected polyurethane insulation for back and top sides of the chamber
- Powerful lighting from three sides: Left, right and front
- Ideal light density by the mixture of daylight and Grolux fluorescents
- Programmable lighting as real time or time period of program step
- Independent programming of lighting for each side with rate control
- Optional LED lighting by the over shelf
- Humidity produced by the reliable humidity generator
- Accurate humidity measurement even at high temperatures by sensitive humidity sensor
- PID controlled heating and proportional controlled cooling and drying
- Powerful air circulation system maintaining temperature and humidity uniformity and stability even at low temperatures
- N-Wise™ control system for continuous optimization of climatic conditions
- Full information with 7" colourful touch screen mounted on the door
- Twenty program memories for frequently operated applications
- Programmable 20 steps for each program
- Program repetition up to 999 times
- Massive data storage with 2 GB internal memory
- Operating parameters can be tracked graphically against time
- Data tracking and storage on PC via N-Wise Closer™ software
- USB port to record the data in the memory to an external memory with selectable time intervals between 1 and 60 minutes
- Ethernet port for remote access through internet by means of optional N-Wise Closer™ software
- Sending e-mails up to five e-mail addresses with the details of failure
- Audible alarms and on-screen messages in plain language, no codes
- For ultimate security optional AlerText™ sends a text message to mobile phones

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Chamber volume	316 litres
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% / 90% RH
Control System	Programmable Microprocessor N-Wise™ control system
Display	7" colourful touch screen
Temperature set and reading sensitivity	0,1°C
Humidity set and reading sensitivity	1% RH
Lighting Timer	Real Time 0-24 hours or 20,000 hours
Timer	1 minutes for each step- 10.000 hours or hold position
Maximum Light Level	20.000 lux (with 15 pcs. daylight lamp)
Daylight Lamp Initial Lumen	3250 lm
Daylight Lamp Kelvin	6500 K
Grolux Lamp Initial Lumen	800 lm
Grolux Lamp Kelvin	8500 K
No of program memory	20 +1 program with step
No of steps	20
No of program repetition	1-99
Altitude setting	0 – 2000 meters
Memory capacity	2 GB
No of shelves standard/max.	3 /16
Inner Surface Structure	Stainless Steel
External Surface Structure	Electrostatic powder coated stainless steel sheet
Power Consumption	3100 W
Power Ratings	230 V, 50 Hz
Internal Dimensions (WxDxH)	507x560x1115 mm
External Dimensions (WxDxH)	760x810x1780 mm

Options & Accessories / GC 401 Growth Chamber

A 08 191   AlerText™ GSM Alarm module

A 08 226   CD for N-Wise Closer™ software (with 3 m RS 232 cable)

R 01 131   Stainless steel wire shelf

K 23 072   Shelf carrier (Must be ordered 2 pcs for each shelf)