



Precise refrigerated cabinets “Hotcold A-B-C-UB-UC”

FORCED AIR CIRCULATION.
DIGITAL ELECTRONIC CONTROL OF TEMPERATURE AND TIME.
HOTCOLD A-B-C ADJUSTABLE TEMPERATURE FROM 0 °C TO 50 °C.
HOTCOLD UB-UC ADJUSTABLE TEMPERATURE FROM -10 °C TO 50 °C.



SAFETY:

DIN STANDARD 12880.2 SAFETY THERMOSTAT FITTED THAT DISCONNECTS POWER TO THE HEATER IF THE CONTROLLER FAILS. MANUAL RESET.

PRECISION TABLE

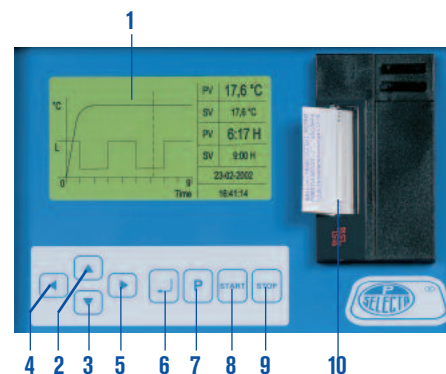
STABILITY ±0.5 °C
HOMOGENEITY ±1 °C
SET ERROR ±0.5 °C
RESOLUTION 0.1 °C



Models A, B and UB.



Models C and UC.



CONTROL PANEL

1. Graphic display.
2. Push button increase value.
3. Push button decrease value.
- 4-5. Push button move cursor.
6. Pushbutton, validate set value.
7. Push button set program.
8. Push button start.
9. Push button stop.
10. Printer for time and temperature (Optional). Part No. 2101508, (needs to be factory fitted).

FEATURES

Exterior case, door and interior made from AISI 304 stainless steel.
 Reversible door can be opened either side, with automatic closing if left open, manual door catch.
 Hermetically sealed compressor with anti vibration mounts with fan forced evaporation unit with ventilated condenser
 Fan circulated homogeneous temperature.
 Refrigerant R134 for models B and C.
 Refrigerant R404 for model UB and UC.
 Two safety power sockets.
 Two external ports for external connections.

Temperature calibration.
 Adjustable timer.

RS-232 interface for data download to a printer or computer.

CONTROL SYSTEM

Programmable graphic display of temperature and time. All operation modes are programmable in up to 5 cycles of which each cycle can be programmed at 1 hour intervals. These cycles can be repeated indefinitely or can be manually terminated. Up to 5 different temperatures can be programmed into each cycle. All parameters can be stored. A temperature safety thermostat comes as standard.

MODELS

HOTCOLD	Part No.	Range °C	Capacity litres	Height / Width / Depth (interior) cm	Height / Width / Depth (exterior) cm	Number of shelves	Motor HP	Power W	Weight Kg
A	2101502	0 +50	247	128 50 38.5	194 62 58	14	1/5	394	89
B	2101503	0 +50	394	128 50 61.5	194 62 81	14	1/5	407	93
C	2101504	0 +50	557	138 58 69.5	208 70 89	14	3/8	850	133
UB	2101505	-10 +50	394	128 50 61.5	194 62 81	14	1/2	952	93
UC	2101506	-10 +50	557	138 58 69.5	208 70 89	14	1/2	1010	133

NOTE: the HOTCOLD has internal power sockets that allow the use of a non-heating mixer shaker or stirrer or equipment for BOD assays to be powered internally. Alternatively power cables can be fed through external ports at each side of the unit. See chapter Mixers stirrers and shakers.

ACCESSORY

Printer shows temperature and time. Needs to be factory fitted.
 Part No. **2101508**

SPARES

Shelves and guides.

Cabinet Part No.	2101502	2101503 / 2101505	2101504 / 2101506
Guides (4) (Set)	1001531	1001532	1001533
Shelves	1001534	1001535	1001536

Each self requires 4 guides i.e. one set.



Precision refrigerated cabinets "Hotcold GL"

**FORCED AIR CIRCULATION.
DIGITAL ELECTRONIC CONTROL OF TEMPERATURE, TIME AND HUMIDITY.
SUITABLE FOR TEMPERATURES FROM 5 °C TO 50 °C.**



PRECISION TABLE

STABILITY	±0.5 °C
HOMOGENEITY	±1 °C
SET ERROR	±1 °C
RESOLUTION	0.1 °C

SAFETY:

**SAFETY STANDARD: CONFORMS TO THE DIN 12880.2.
ADJUSTABLE OVER TEMPERATURE CUT OUT FITTED THAT CUTS OFF HEATING IF OVER TEMPERATURE FAILS, MANUAL RESET.**

APPLICATIONS

Refrigerated climate cabinet for botany testing of plants flowers, seed germination, photosynthesis agriculture etc. that require control of temperature, humidity and light.

Specifically designed with four function modes:

Mode A: Refrigerated incubator from 5 °C to 50 °C.

Mode B: Refrigerated incubator with illumination from 10 °C to 50 °C

Mode C: Refrigerated incubator from 18 °C to 40 °C with an adjustable humidity range from 50 to 98%.

Mode D: Refrigerated incubator with illumination from 18 °C to 40 °C with an adjustable humidity range from 50 to 98%.

	Mode A	Mode B	Mode C	Mode D
Humidity	NO	NO	YES	YES
Illumination	NO	YES	NO	YES
Temperature range	5 / 50 °C	10 / 50 °C	18 / 40 °C	18 / 40 °C
Stability	±0.5 °C	±0.5 °C	±0.5 °C	±0.5 °C
Homogeneity	±1.0 °C	±1.0 °C	±1.0 °C	±1.0 °C
Resolution	0.1 °C	0.1 °C	0.1 °C	0.1 °C
Set Error	±1.0 °C	±1.0 °C	±1.0 °C	±1.0 °C
Humidity range	-	-	50 / 98% Hr	50 / 80% Hr
Illumination range (Choice of 3)	-	0 / 4 K / 12 K lux	-	0 / 4 K / 12 K lux
Humidity resolution	-	-	1%	1%
Humidity precision	50 - 75%	-	±3%	±4%
	75 - 80%	-	±4%	±5%



FEATURES

Exterior case, door and interior made from AISI 304 stainless steel. Reversible door can be fitted to open from either side, with automatic closing if left open.

The door interior supplies fluorescent illumination to the chamber, the power of which can be selected as 0 / 4K or 12 K Lux.

Hermetically sealed compressor with anti vibration mounts with fan forced evaporation unit with ventilated condenser.

Fan circulated homogeneous temperature.

All operation modes are programmable in up to 5 cycles of which each cycle can be programmed at 1 hour intervals. These cycles can be repeated indefinitely or can be manually terminated.

The humidity is constant during the program.

There are 10 Program storage memories of all parameters.

The fan, temperature radiator and two thermal safety internal electrical sockets are located in the upper chamber.

Two external ports are located on each side for the introduction of tubes and cables for other diverse applications.

A humidity tray is located at the back of the unit for controlling humidity and is generated through evaporation.

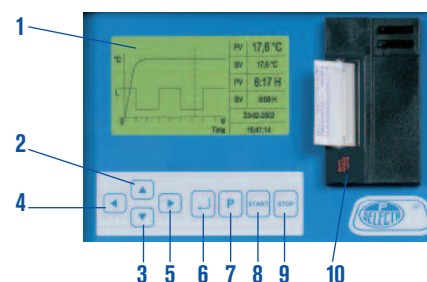
RS-232 interface for data down load to a printer or computer.

CONTROL PANEL

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10. Printer for time and temperature (Optional). Part No. 2101508, (needs to be factory fitted).

STANDARD EQUIPMENT

2 shelves and 8 shelf guides.



ACCESSORY

Printer shows temperature and time.
Needs to be factory fitted
Part No. **2101508**

SPARES

Part No.
1001533 Guides (4) (Set)
1001536 Shelves
Each self requires 4 guides i.e. one set.

MODEL

HOTCOLD	Part No.	Range °C	Capacity litres	Height / Width / Depth (interior) cm	Height / Width / Depth (exterior) cm	Number of shelves	Motor HP	Power W	Weight Kg
GL	2101507	5 +50	557	138 58 69.5	208 70 95	14	3/8	1300	198

NOTE: The HOTCOLD has internal power sockets that allow the use of a non-heating mixer shaker or stirrer or equipment for BOD assays to be powered internally. Alternatively power cables can be fed through external ports at each side of the unit. See chapter Mixers stirrers and shakers.