



# Specacabinet™

## *User Manual*

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Specacabinet™

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*User Manual*

2I-19100 Issue 12

# *Specacabinet™ P/N GS19100*

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## **SPECACABINET™**

### ***USER MANUAL***

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Other product names mentioned herein may be trademarks  
of their respective owners.

## *1. Introduction*

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Thank you for purchasing a Specac Product.

The Specacabinet™ is a drying cabinet suitable for the storage of hygroscopic materials (such as IR cell windows or reference samples) and any other accessories that require a moisture free storage environment.

The Specacabinet™ is thermostatically controlled over the temperature range from ambient to 80°C.

A drying agent is included with a colour indicator that enables one to keep a constant check on the humidity.

## *2. Specification*

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Internal dimensions: Length 737mm x height 432mm x width 331mm

External dimensions: Length 762mm x height 508mm x width 356mm

Temperature stability: Over whole range is +/- 0.5°C

Shelves: 2 x Cd/Ni plated

Power consumption: 240v 50Hz 600W – P/N 19100 (UK)

110v 60Hz 600W – P/N 19101 (USA)

240v 50Hz 600W – P/N 19102 (EU)

Finish: Cream with sliding glass panels

### 3. Unpacking and Checking

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On receipt of your Specacabinet™ unpack carefully and check that no damage has occurred during transit.

**Note:** *If damage has occurred, **DO NOT PLUG INTO THE MAINS SUPPLY.** Inform both Specac and the carriers that damage has occurred.*

### 4. Installation

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#### Electrical Connections

The electrical supply for the Specacabinet™ will be either 240v 50Hz or 110v 60Hz. This will be clearly indicated on the appliance label at the rear of the cabinet (near the mains lead entry).

The 240v units will normally be supplied with a mains plug fitted. The fuse rating or the fuse in the mains plug should be 5 amps for the 240v units.

The 110v units are supplied with a plug and the customer must ensure that is connected to an outlet socket which is protected at 7 to 10 amps.

#### Cable Identification

The cable is a three core type – **BROWN** for power/live, **BLUE** for neutral and **GREEN/YELLOW** for earth/ground.

**Warning:** *When connecting the three core cable to a supply adapter, please ensure that the above colour convention is observed and that normal electrical safety procedures are carried out.*

## 5. Operation

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Having situated the Specacabinet™ in a suitable position, connect it to the mains electrical power supply.

Keep the sliding glass doors closed to minimise heat loss.

To prepare the Specacabinet™ for use, it is recommended that a high temperature setting is maintained for a period of 12 hours to ensure that the desiccant is fully activated. After this initial time period has elapsed the thermostat control knob can be adjusted to the desired scale setting. A **normal** operating setting would be at No.2. (Refer to **Table 1** for further information).

Allow a time of approximately 1 hour for the cabinet temperature to stabilise.

Check the humidity by observing the colour of the indicator disc at the front of the desiccant basket container. If the colour is PINK to MAUVE, the relative humidity is greater than 50% and hygroscopic materials should not be placed in the Specacabinet™. Set a higher temperature for the cabinet and maintain this temperature until the disc turns BLUE. Provided the disc is BLUE in colour, it is safe to store hygroscopic materials in the Specacabinet™.

If after adding materials or accessories to the Specacabinet the indicator turns PINK, then choose a slightly higher temperature setting until the relative humidity is corrected.

**Warning: Do not place sealed containers or bottles in the Specacabinet™ if they will be subject to a temperature change. Bottles that burst can be dangerous.**

A thermometer is fitted which reads to 90°C but the customer may install their own to read the temperature more accurately if required.

## Safety Automatic Cut-Out Switch

A safety automatic cut out switch with a red button is fitted to the right hand side of the Specacabinet™ as you look from the front. This switch allows for operation from 0 to 90°C at +/- 5°C. This switch prevents the Specacabinet™ overheating, by limiting to circa 90°C.

To set the cut out switch it is recommended to operate the Specacabinet™ at a high temperature setting initially. Set the maximum (full) setting on the thermostat control knob and check the temperature stability after 1 hour. Then switch on the thermal cut out device by pressing the red button and reduce the thermostat control knob slightly to allow the overall temperature to drop by 5° to 10°C. Then switch off the thermal cut out device by pressing the red button again. The Specacabinet will have now been set to allow for safe operation up to a circa 90°C maximum temperature. A rise above this set temperature maximum, will cut power to the Specacabinet.

**Table 1**

The following are typical temperature values measured on a 240v Specacabinet™ against the thermostatic control knob setting.  
(The values given may vary a few degrees from cabinet to cabinet).

SCALE SETTING	TEMPERATURE °C
1	32.0
2	40.3
3	48.3
4	63.0
FULL	80.0

## WEEE Directive For Equipment Disposal

The symbol (shown left) on the back of the Specacabinet™ indicates that this product complies with the Waste Electrical and Electronic Equipment Directive (WEEE). If this product is in use and was purchased within the European Union, please contact your local sales agent or Specac to make arrangements for disposal of this equipment.





This is to certify that the:

**SPECACABINET  
19100/19102**

Manufactured by:  
**SPECAC LIMITED**

Conforms with the protection requirements of Council directives 2004/108/EC , relating to the EMC DIRECTIVE,

by the application of:

- 1) Testing to the following standard:  
EN-61326:2006/8 EMC (Emissions/Immunity) requirements for Electrical Equipment for measurement, control and laboratory use.
- 2) Supported by SPECAC Technical File No. **TF19100**


and also conforms to the general safety requirements of Council Directives 2006/95/EC , relating to the LOW VOLTAGE DIRECTIVE,

by the application of:

- 1) EN61010-1:2010, Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory use.
- 2) Supported by SPECAC Technical File No. **TF19100**

Responsible Person:

**Name:** Mr.G.Poulter  
**Position:** Technical Director  
**Serial No:**  
**Name:**  
**Position:**

**Signature:**   
**Of:** Specac Ltd. **Date:** 21st Feb 2013  
**conforms to the above**  
**Signature:**  
**Of:** Specac Ltd. **Date:**

Original to file/1 Copy to Customer:

FS. No:642-118

Rev. No: 02

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