

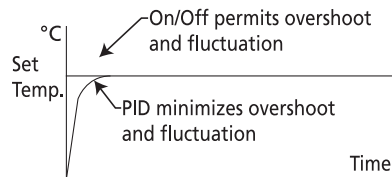
Oven and Incubator Options

Control System Options

Contact Carbolite regarding application questions, and for detailed descriptions, specifications, and pricing of all control system options.

Temperature Controllers

Carbolite offers two single set-point PID temperature controls - the Models TLK and 301. The TLK controller represents Carbolite's base offering. The 301 is an advanced PID temperature control that incorporates a single ramp-to-set-point facility and process timer.



Optional Programmers

See statement at the top and bottom of page 4.

Cascade Control

See description on page 46.

Inputs and Outputs

Carbolite can provide instrumentation outputs such as Temperature Alarm Relay Output, Program Segment Output, and DC Retransmission of Process Variable or Setpoint, as well as DC Remote Setpoint Input. Contact Carbolite with specific questions and/or requirements.

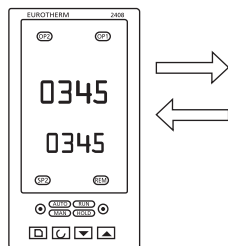
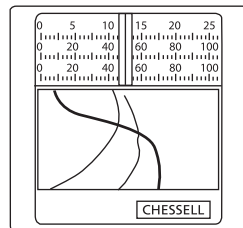


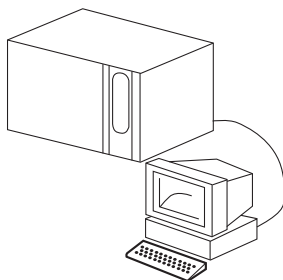
Chart & Data Acquisition Recorders

See description on page 45.



Digital Communications

See description on page 45.

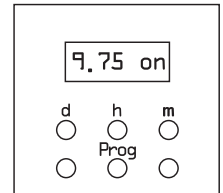


Software

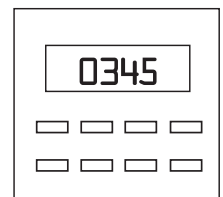
See description on page 46.

Timers

Carbolite offers a number of different analog and digital timers that may be configured to start or stop the oven operation, create a timed delay at the start or end of process, triggered by an alarm contact in the oven controller, initiate an audible alarm, and set in functions of minutes, hours, days and weeks.



A defrost timer may be ordered with Cooled Incubators. The timer switches off the refrigeration unit once every 24 hours to allow automatic defrosting.



Temperature Measurement Options

Contact Carbolite regarding application questions, and for detailed descriptions, specifications, and pricing of all temperature measurement options.

Temperature Indicator

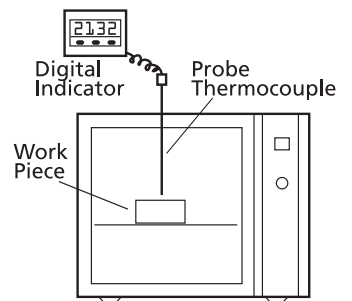
See description on page 45.

Additional Thermocouple

See description on page 43.

Thermocouple Probes

See description on page 45.

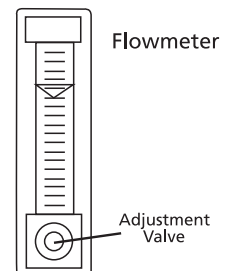


Gas & Air Flow Options

Contact Carbolite regarding application questions, and for detailed descriptions, specifications, and pricing of all gas and air flow options.

Gas Flowmeters

See description on page 44.



Gas & Air Flow Options (Continued)

Solenoid Valves

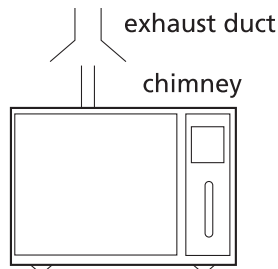
See statement at top of page 45.

Inert Gas Inlet

See description on page 43.

Chimney

An extended 6" high chimney allows for indirect connection to customer's exhaust ductwork. Not applicable to all models.

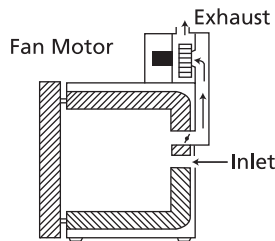


Fan Switch

An air recirculating fan in an oven chamber normally runs all the time that the oven is operating. This option allows manual switching on and off of the fan while the heating elements remain on. Please discuss with Carbolite before ordering this option.

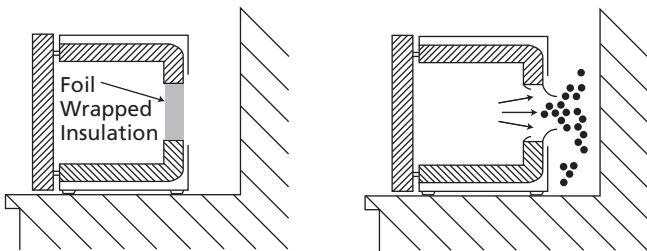
Air Exhaust Fan

An air exhaust fan is an extra fan and air duct that is installed externally on top of the oven, and draws air from the oven exhaust vent. This option is usually specified when air (process exhaust) inside the oven has to be vented to a laboratory extraction system or to the outside of a room or building.



Stoving and Curing Option

When curing a product, stoving paint, etc. the fumes created may be dangerous to health or possibly explosive, therefore they have to be continually removed from the oven. This option includes a sealed chamber, exhaust fan and air switch, and an explosion relief panel. Please contact Carbolite before ordering this option.



Moisture Extraction Option

The moisture extraction option is required if the load placed in the oven has a high water/liquid content. Oven modifications include a sealed chamber and an extraction fan.

Assorted Options

Contact Carbolite regarding application questions, and for detailed descriptions, specifications, and pricing of all assorted options.

Door Switch

A door switch cuts off power to the heating elements when the door is opened. This option would prevent temperature overshoot in incubators.

Locking Handle

A keyed locking handle that allows locking of the oven door.

Cable Ports

Cable Ports allow cables, pipes or tubing to be easily passed into the oven chamber. Cable ports can be installed through any oven wall in which it does not interfere with internal components. The left hand side is commonly specified, but customer should advise desired location. Standard cable port sizes are .25", 1.5" and 2.0" diameter. Larger sizes are provided with swivel covers.

Viewing Window

Viewing windows may be installed in the majority of Carbolite oven models. The viewing window is installed in the oven door. Standard size viewing windows are 6" x 6" and 12" x 12".

Variable Speed Fan

The variable speed fan option allows one to vary the operating speed of the air recirculating fan. This option may be desirable if the load consisted of light powder or a material that could be disturbed by the normal air movement created by the air recirculating fan.

Interior Light

An interior light is a standard option available with many Carbolite oven and incubator products. This option is frequently combined with the viewing window option when it is necessary to visually inspect the load during the heating process.