Water-Jacketed Automatic CO$_2$

Model 460

Includes FREE Gas Filter Interface Assembly

CE · ETL

Fast Recovery to Uniform Temperature!

- Holds temperature longer if power failure occurs
- Exclusive SMARTGAS® system for accurate CO$_2$ control
- Security password protection of set points avoids unintended changes
- IR sensor for changing temperature and humidity conditions
- TC sensor for constant temperature and humidity applications
- ☆ 24 Month Warranty

Product Specifications

- Easy to read LED display scans between actual temperature and % CO$_2$ level.
- Temperature adjustable heated door keeps inner glass door free of condensation for improved viewing of cultures.
- Keypad programming for fast, easy adjustment of parameters.

- Corrosion-resistant polished stainless steel chamber.
- Dual chamber models come with separate, independent control systems.
- Built-in RS232 port for transferring temperature and CO$_2$ data to a printer.
- Accessory HEPA filter (99.97% efficient at 0.5 microns) can be easily installed to ensure aseptic cell culture.
- Five shelves and supports can be removed and reinstalled without tools for complete decontamination and easier cleaning. Twelve shelf positions per chamber.

Operation

- Microprocessor temperature control—from slightly above ambient to 60°C with thermal conductivity sensor; slightly above ambient to 55°C with infrared sensor—with ±0.1°C control, ±0.25°C uniformity.
- CO$_2$ concentration from 0-20% with ±0.1% control.
- Audible and visual alarms indicate temperature deviations of ±1°C or more, CO$_2$ concentration deviations of 1% or greater, or when incubator door has been left open for more than five minutes.
- Independent hydraulic high limit thermostat protects cultures in case of microprocessor system failure.
- CO$_2$ recovery time to 5% CO$_2$ (98% of set value) after 30 second door opening at 37°C is seven minutes.

PRODUCT SPECIFICATIONS

Model #	Sensor Type	Operating Temp Range °C	Temperature Control °C	Temperature Uniformity °C	Chamber Volume cu. ft. (*l*)	Chamber Dimensions Inches (cm) W	H	D	Overall Dimensions Inches (cm) W	H	D	# of Shelves	Shipping Weight Lb. (kg)
460, 460-1CE, 465, 465-1	TC IR	Ambient +5° to 60°C Ambient +5° to 55°C	±0.1°C	±0.25°C	single chamber 6.2 (176)	22 (56)	single 22 (56)	22 (56)	27.3 (69)	34 (86)	26.8 (68)	5	230 (104)
462, 462-1CE, 467, 467-1	TC IR	Ambient +5° to 60°C Ambient +5° to 55°C	±0.1°C	±0.25°C	dual chamber (2) 12.4 (352)	44 (112)	side-by-side 22 (56)	22 (56)	54.6 (139)	34 (86)	26.8 (68)	5	460 (209)
464, 464-1CE, 469, 469-1	TC IR	Ambient +5° to 60°C Ambient +5° to 55°C	±0.1°C	±0.25°C	dual chamber (2) 12.4 (352)	22 (56)	stacked 44 (112)	22 (56)	27.3 (69)	68 (173)	26.8 (68)	5	460 (209)

ORDERING INFORMATION

Model #	Electrical (50/60 Hz) Volts	Amps	Watts	US List Price		Model #	Electrical (50/60 Hz) Volts	Amps	Watts	US List Price
TC Sensor						**IR Sensor**				
460	120	6.3	750	$5,212.00		465[5]	120	6.3	750	$6,528.00
460-1CE[5]	230/240	3.1	750	$5,212.00		465-1[5]	230/240	3.1	750	$6,528.00
462[5]	120	12.5	1500	$10,414.00		467[5]	120	12.5	1500	$12,954.00
462-1CE[5]	230/240	6.3	1500	$10,414.00		467-1[5]	230/240	6.3	1500	$12,954.00
464	120	12.5	1500	$10,414.00		469[5]	120	12.5	1500	$12,954.00
464-1CE[5]	230/240	6.3	1500	$10,414.00		469-1[5]	230/240	6.3	1500	$12,954.00
[5]ETL										

ACCESSORIES

Factory Installed Options for 460, 462, 464 Series (IR models only)			Factory Installed Options for 460, 462, 464 Series (IR models only)	
370-24	Printer	$711.00	490-9	Hepa Filter	$185.00
370-25	Cable for printer	$46.00	RH	RH Display	$594.83
490-5	Mobile cart for 460/490	$450.00	*If a 460 with RH display is required, order 460RH*	