

**Russell Technical Products GB series 8 cuft Cascade Environment Chamber
GB8-105-105**



- **Standard Control package:**
 - Yokogawa Programmable Controller
 - Watlow Redundant Over-Temp Controller

- **Controller Upgrade Package Available:**
**see page 2 for info.*
 - Synergy NANO Controller
 - data logger
 - six custom outputs
 - USB Flash drive port
 - Ethernet connection

- **Chamber Features:**
 - Two three inch (3 ") access port.
 - Heavy duty casters.
 - Viewing Window

GB-8-105-105			
Chamber Volume (cu ft) / (liters)		8 / 226	
Interior: W x D x H	(in)	24 x 24 x 24	
	(cm)	61 x 61 x 61	
Exterior: W x D x H	(in)	32 x 50 x 77	
	(cm)	82 x 127 x 196	
Compressor(s):	Hi stage (hp) / Lo stage (hp)	1.5 / 1.5	
Chamber Heaters:	(kw)	2	
Power Requirements:	Voltage / Phase / Frequency	230/1 or 3/60	
	Load in (kva)	10	
Performance:			
Temperature Range :	°F	-90 to 350	
	°C	-68 to 177	
Pull-Down (chamber empty)		In Minutes	
75°F / 23°C	to	0°F / -17°C	10
	to	-40°F / -40°C	15
	to	-65°F / -54°C	25
	to	-85°F / -65°C	30
350°F / 177°C	to	75°F / 23°C	25
Heat-Up(chamber empty)		In Minutes	
75°F / 23°C	to	240°F / 116°C	20
	to	350°F / 177°C	40
-90°F / -68°C	to	75°F / 23°C	25
Live load capacity (in watts)		In Watts	
(steady state)		0°F / -17°C	750
		-40°F / -40°C	600
		-65°F / -54°C	450



Synergy NANO Controller Information

The Synergy Nano combines the functions of a test chamber controller and a data logger. It moreover allows users to program up to six custom outputs for special applications and optional features. Process inputs include RTD, Thermocouple, voltage and current. Boasting the Microsoft Windows™ CE.NET operating system, this feature-rich system's sophisticated communications capabilities also include built-in remote control/monitoring.

Synergy NANO Touch Screen Controller & Data Logger	
Channels	
1 or 2 Process Variables	Temperature
	Altitude
	Temperature
	Altitude
Operating System	
	Microsoft Windows™ CE .NET
LCD	
LED Touch screen	Type: Color 320 X 240
Communications	
	10/100 BaseT Ethernet
	Telnet
	FTP
	WebTouch Servers RS – 232 Communications IEEE 488 (Optional)
Storage	
	1 GB On Board Flash
	Removable USB Flash Disk
	64 MB SDRAM
Universal Serial Bus (USB)	
	USB Flash Memory for Program
	Log File and Export & Also for Bar Code Scanner
	USB Mouse
	USB Keyboard
Programming	
Step Types	Set Point
	Jump Loop
	Auto Start
	Hold
	Stop
Number of programs:	Only limited by onboard storage