

More choice, stability and protection.
Same great VWR quality and value.

VWR® symphony™
Water-Jacketed
and Air-Jacketed
CO₂ Incubators

Pictured: L-R, symphony 1.4 A (98000-356),
symphony 5.3 A (98000-362), symphony
6.5W (98000-358) and symphony 8.5A
(98000-370)



NEW models, larger capacities,
and contamination control

A new choice of state-of-the-art CO₂ incubators for your cell and tissue culture applications

The Choice is Yours

The new VWR symphony series provides unsurpassed performance, reliability and selection. An enhanced and expanded line of incubators incorporating advanced technology for the safe and stable growth of your cell cultures, symphony CO₂ incubators offer a range of solutions to meet your specific culturing preferences. Symphony CO₂ incubators will harmonize with all your needs and work environment.

Symphony CO₂ incubators are available in a range of convenient sizes to match your capacity requirements. Choose from water- or air-jacketed temperature control technology, thermal conductivity (TC) or infrared (IR) sensor based CO₂ regulation and even single or dual stacked model configurations.

The symphony Series Has It All!

- Water- or air-jacketed temperature control
- Unit capacities of 1.4, 5.3, 6.5 and 8.5 cu. ft.
- High temperature decontamination models available
- TC or IR CO₂ sensors
- Convenient dual stack packages or single units

Temperature Control Water- or Air-Jacketed?

Whether you prefer the renown thermal stability of water-jacketed designs or lightweight and low maintenance convenience with the additional protection of high temperature contamination control, provided by air-jacketed technology, you'll find what you are looking for in the symphony series.

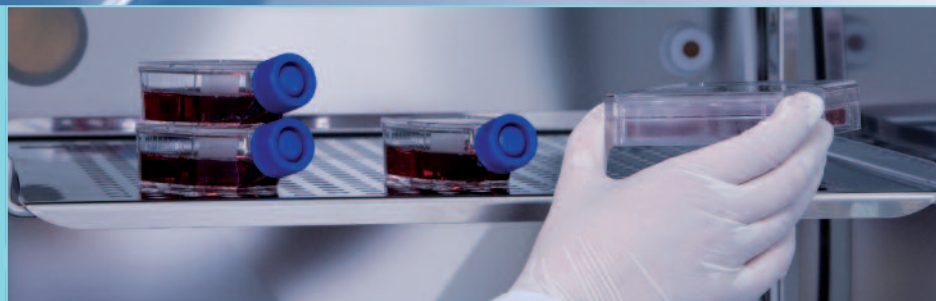
CO₂ Control Thermal Conductivity or Infrared?

VWR symphony CO₂ incubators are available with thermal conductivity (TC) or infrared (IR) sensors to suit your preference for automatic CO₂ control.

TC sensors provide accurate CO₂ control in applications where temperature and humidity values are consistent. IR sensors are recommended in uses where temperature and humidity are changed frequently.

Rounded corners within the symphony's non-corrosive stainless steel chambers, simplify cleaning, reducing the risk of contamination.

Symphony features large shelves for ample sample storage. Shelves and associated supports are easily removed for cleaning.



Symphony incubators are designed to be easy to install and operate, and provide reliable performance for all your culturing needs.

symphony 6.5 W (98000-358)

VWR symphony 6.5W Water-Jacketed CO₂ Incubator – superior temperature stability and security

The symphony 6.5W protects your cultures by surrounding them with an insulated triple wall cabinet construction and a jacket of temperature conditioned water, providing unsurpassed protection against unwanted heat loss, even in the event of a power outage!

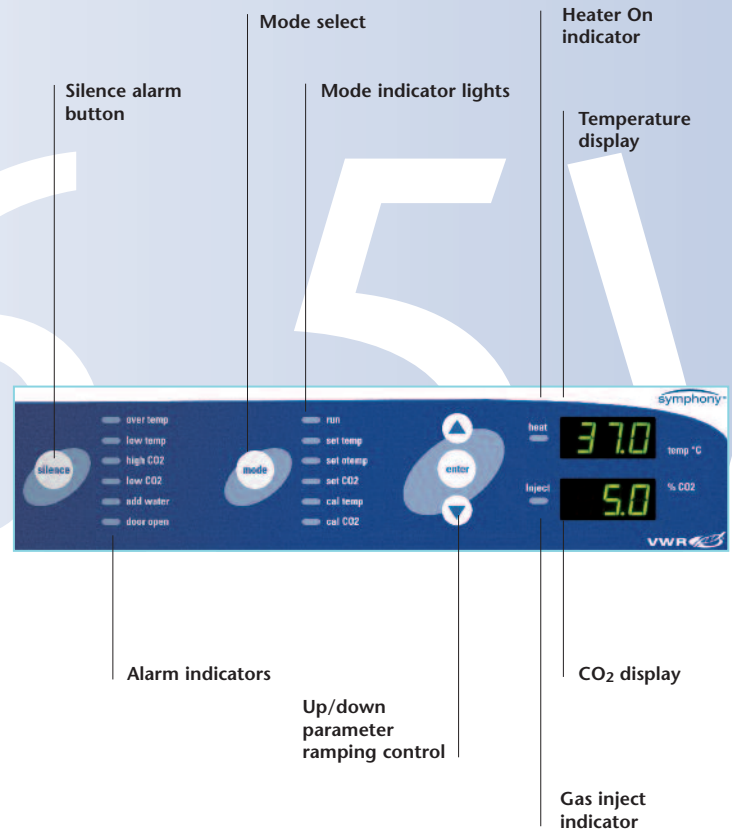
Featuring a large 6.5 cubic foot capacity corrosion resistant stainless steel chamber, the symphony 6.5W is the ideal choice for laboratories concerned with subjecting their cultures to potential disruption of power or significant ambient temperature fluctuations.

Key Features

- Large internal volume of 6.5 cu. ft.
- Choice of TC or IR sensor based CO₂ control
- Internal shelves and supports are easily installed and removed without tools
- Remote alarm contacts for connection to in-house alarm system
- Available dual stack package includes mobile support stand, maximizing lab space
- In-chamber HEPA filtration system available on the premium model



98000-358



Simple to Navigate User Interface Panel

Full control of the symphony 6.5W is at your fingertips, in the clearly marked, easy-to-use interface panel. Featuring separate large LED displays for temperature and CO₂ parameters, and convenient touch sensitive membrane controls, providing status of incubator functions and parameters.

NEW

Protect your water-jacketed incubator with in-chamber HEPA air filtration system

In chamber HEPA air filtration system continuously filters the entire chamber air volume every 60 seconds, creating cleanroom Class 100 conditions to preserve your aseptic culturing environment. With airborne contaminants from routine door openings the primary source of contamination in most cell culture laboratory settings, the full time protection of the HEPA airflow system safeguards your cultures and minimizes downtime.

VWR symphony 5.3A and 8.5A Air-Jacketed CO₂ Incubators – reliable performance with enhanced contamination control

Symphony 5.3A and 8.5A CO₂ incubators employ advanced air-jacketed temperature control technology to assure an optimal, stable growing environment for cell and tissue cultures. Low maintenance and lighter than traditional water-jacketed models, the 5.3 and 8.5A units feature a new, unique pan-less humidity water reservoir which improves recovery characteristics and cell growth.

Each unit is available with an integral 90°C moist heat high temperature decontamination cycle, proven effective in eliminating most common contaminants.



98000-364

Key Features

- Large internal volumes of 5.3 and 8.5 cu. ft.
- NEW 90°C decontamination function available for total contamination control, *without removing sensors*
- Choice of TC or IR CO₂ control
- Internal shelves and supports are easily installed and removed without tools
- Dual stack configurations on caster-mounted stands double useful capacity and save valuable lab space

With chamber capacities of 5.3 and 8.5 cubic feet respectively, the symphony 5.3A and 8.5A are the ideal choice for busy laboratories where contamination concerns are prevalent and ease of cleaning of importance.

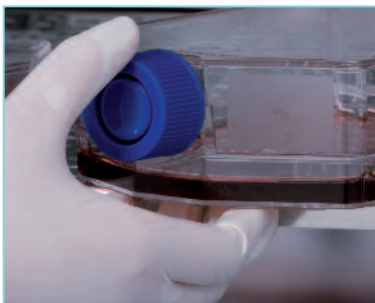
Both the 5.3A and 8.5A are readily stackable when desired. Convenient dual stack packages, including caster-mounted support stand, are available for the symphony 5.3A to maximize capacity while minimizing floorspace.

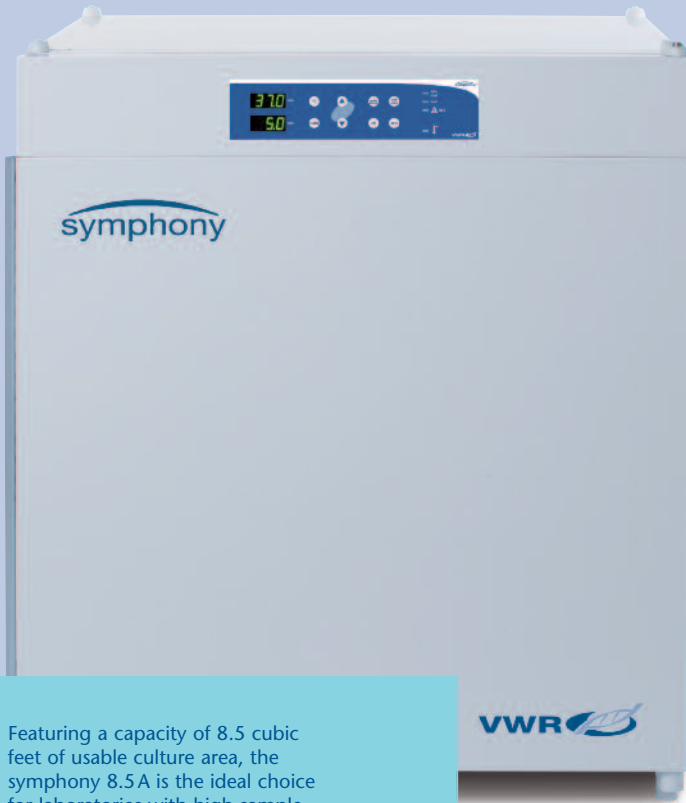


98000-380

NEW 90°C Decontamination Function – protect your valuable cultures!

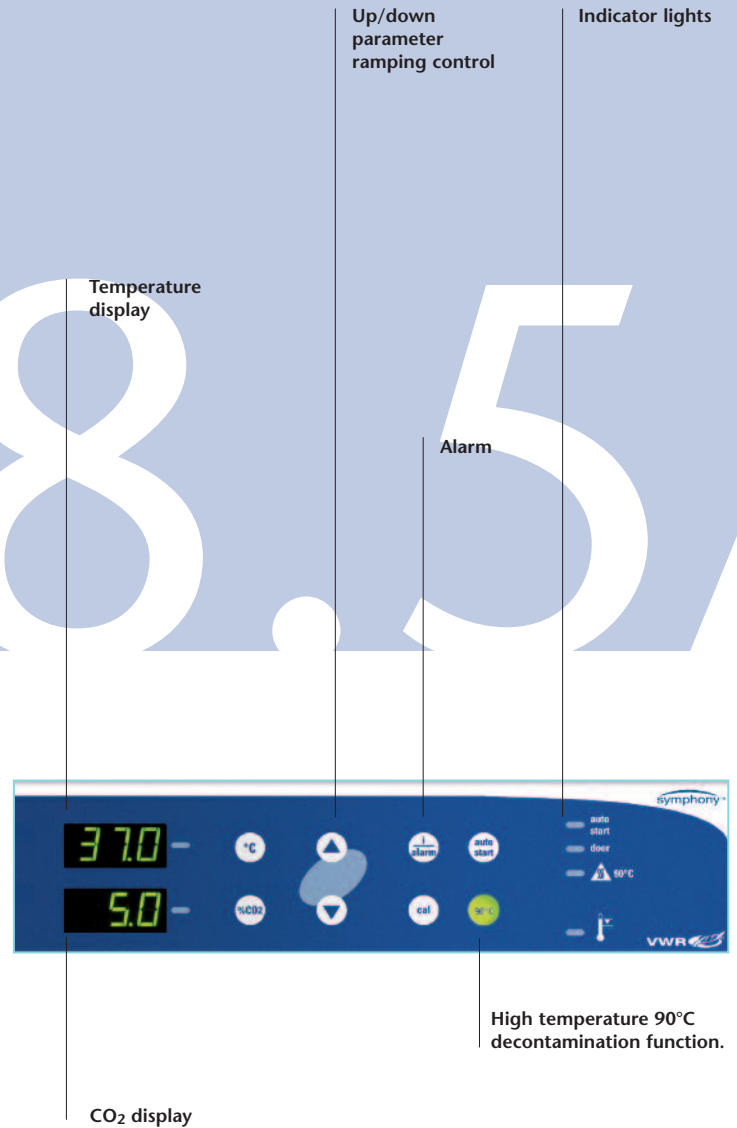
VWR symphony 5.3A and 8.5A CO₂ incubators are available with an on-demand, automatic 90°C decontamination function that decontaminates the entire chamber interior without the need to remove sensors, fittings and shelves. Independent laboratory tests have validated that 90°C moist heat decontamination is highly effective against a wide range of contaminants, including mycoplasma.





98000-372

Featuring a capacity of 8.5 cubic feet of usable culture area, the symphony 8.5A is the ideal choice for laboratories with high sample throughput.



Temperature display

Up/down parameter ramping control

Indicator lights

Alarm

CO2 display

High temperature 90°C decontamination function.

Air-Jacketed – fast, reliable and convenient
VWR symphony 5.3A and 8.5A air-jacketed CO₂ incubators feature a fully-automated start-up routine that gets you up and working within a few hours. They are easy-to-use due to their intuitive and simplified interface control panels.

Unique Humidity System – faster recovery times, safer cultures
Our VWR symphony 5.3A and 8.5A CO₂ incubators use a unique pan-less humidity system which generates high relative humidity protecting cultures from drying out. Humidity recovery times are up to five times faster than those of standard water tray.

Control Panel – simple to navigate user interface panel
Full control of the symphony 5.3A and 8.5A is at your fingertips. The decontamination cycle is conveniently started with the touch of a button. The easy-to-use interface panel features separate large LED displays for temperature and

CO₂ parameters, and convenient touch sensitive membrane controls, providing status of incubator functions and parameters.

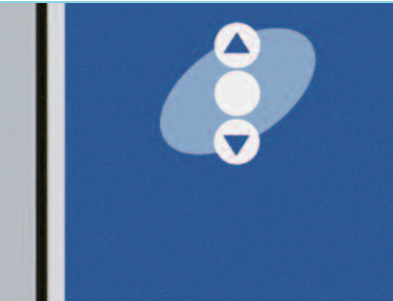
VWR symphony 1.4A Air-Jacketed CO₂ Incubator – for personal or small sample applications

Small yet fully featured, the symphony 1.4A offers all the benefits of air-jacketed technology in a space saving benchtop cabinet with 1.4 cubic feet of culturing capacity. With a footprint of just 23.5" wide x 18.5" deep, the compact symphony 1.4A is ideal for use as a personal incubator or for low volume applications in space constrained working environments.

Key Features

- Internal volume of 1.4 cu. ft.
- Easy to clean, seamless interior chamber with coved corners and minimized internal surfaces
- Supplied with 4 stainless steel shelves
- Radiant wall heating for accurate, uniform temperatures and optimal recovery
- Comprehensive alarm system with audible and visual alerts

1.4A



98000-356

A simple three-button touchpad allows quick access to all functions. High-visibility digital read-outs simplify operation and monitoring.

The symphony 1.4A air-jacketed CO₂ incubator features microprocessor-based, automatic thermal conductivity CO₂ control and auto-zero calibration.



1.4A

VWR symphony 1.4A Air-Jacketed CO₂ Incubator

Technical Specifications			
Temperature		Shelves	
Control	±0.1°C	Dimensions (W x D)	13.5 x 11.5" (34.3 x 29.2 cm)
Range	5°C above ambient to 60°C (150°F)	Construction	Stainless steel, perforated
Uniformity	±0.4°C @ 37°C (98.6°F)	Surface Area	1.08 sq. ft. (0.1 sq. m)
Tracking Alarm	User-programmable high/low	Max. per Chamber	4.32 sq. ft. (0.40 sq. m)
CO₂		Standard	4
CO ₂ Control	Better than ±0.1%	Construction	
CO ₂ Range	0-20%	Interior Volume	1.4 cu. ft. (39.6 L)
Inlet Pressure Required	15 PSIG (1.0 bar)	Interior	Type 304, mirror finish, stainless steel
CO ₂ Sensor	TC	Exterior	18 gauge, cold-rolled steel
Readability & Setability	0.1%	Electrical	
Tracking Alarm	User-programmable high/low	Rated Voltage	120V, 60Hz (Operating range 90-125V)
Humidity		Circuit Breaker/Power Switch	15 Amp
rH	Ambient to 95% @ 37°C (98.6°F)	Plug	NEMA 5-15
Humidity Pan	1.5 gal. (5.7 L), standard	Alarm Contacts	Power interruption; deviation of temp, CO ₂
Fittings		Dimensions	
Access Port with Filter	1.3" (3.3 cm) with removable silicone plug	Exterior (W x H x D)	18.5 x 18 x 23.5" (47 x 46.5 x 59.7 cm)
CO ₂ Inlet	1/4" hose (barbed)	Interior (W x H x D)	12 x 14 x 14" (30.5 x 46.5 x 35.5 cm)
Unit Heat Load		Weight	
120V	200 BTU/Hr	Net	60 lbs. (28 kg)
		Shipping	70 lbs. (33 kg)

Ordering Information		
Model	Description	Cat. No.
VWR symphony 1.4A Air-Jacketed CO ₂ Incubator	With Thermal Conductivity (TC) CO ₂ Sensor	98000-356

6.5W

VWR symphony 6.5W Water-Jacketed CO₂ Incubator

Technical Specifications			
Temperature		Shelves	
Control	±0.1°C	Dimensions (W x D)	18.5 x 18.5" (47 x 47 cm)
Range	5°C above ambient to 55°C (131°F)	Construction	Stainless steel, perforated
Uniformity	±0.2°C @ 37°C (98.6°F)	Surface Area	2.4 sq. ft. (0.2 sq. m)
Tracking Alarm	User-programmable high/low	Max. per Chamber	40.8 sq. ft. (3.8 sq. m)
Temperature Safety		Standard, Maximum	4, 17
Sensor	Precision thermistor	Water Jacket Volume	11.7 gal. (43.5 L)
Controller	Independent analog electronic	Construction	
Setability	0.1%	Interior Volume	6.5 cu. ft. (184.1 L)
CO₂		Interior	Type 304, mirror finish, stainless steel
CO ₂ Control	Better than ±0.1%	Exterior	18 gauge, cold-rolled steel, powder coated
CO ₂ Range	0-20%	Electrical	
Inlet Pressure Required	15 PSIG (1.0 bar)	Rated Voltage	115V, 50/60Hz, 3.6 FLA (Operating range 90-125V)
CO ₂ Sensor	TC or IR	Circuit Breaker/Power Switch	6 Amps/2 Pole
Readability & Setability	0.1%	Plug	NEMA 5-15
Tracking Alarm	User-programmable high/low	Alarm Contacts	Power interruption; deviation of temp, CO ₂
Humidity		Dimensions	
rH	Ambient to 95% @ 37°C (98.6°F)	Exterior (W x H x D)	26 x 39.5 x 25" (66.8 x 100.3 x 63.5 cm)
Humidity Pan	0.8 gal. (3 L), standard	Interior (W x H x D)	21.3 x 26.8 x 20" (54.1 x 68.1 x 50.8 cm)
Fittings		Weight	
Fill Port	3/8" hose (barbed)	Net	265 lbs. (120.2 kg)
Drain Port	1/4" hose (barbed)	Net Operational	365 lbs. (166.0 kg)
Access Port with Filter	1.3" (3.3 cm) with removable silicone plug	Shipping (Motor)	324 lbs. (147.0 kg)
CO ₂ Inlet	1/4" hose (barbed)		
Unit Heat Load			
120V	344 BTU/Hr		

Ordering Information		
Model	Description	Cat. No.
Single-Unit Incubators		
VWR symphony 6.5W Water-Jacketed CO ₂ Incubator	With Thermal Conductivity (TC) CO ₂ Sensor	98000-358
VWR symphony 6.5W Water-Jacketed CO ₂ Incubator	With Thermal Conductivity (TC) CO ₂ Sensor and HEPA Filter	97025-836
VWR symphony 6.5W Water-Jacketed CO ₂ Incubator	With Infrared (IR) CO ₂ Sensor	98000-360
VWR symphony 6.5W Water-Jacketed CO ₂ Incubator	With Infrared (IR) CO ₂ Sensor and HEPA Filter	97025-838
Dual-Stacked Incubators		
VWR symphony 6.5W Water-Jacketed CO ₂ Incubator	With Thermal Conductivity (TC) CO ₂ Sensor and Mobile Support Stand	98000-000
VWR symphony 6.5W Water-Jacketed CO ₂ Incubator	With Thermal Conductivity (TC) CO ₂ Sensor, HEPA Filter, and Mobile Support Stand	97025-840
VWR symphony 6.5W Water-Jacketed CO ₂ Incubator	With Infrared (IR) CO ₂ Sensor and Mobile Support Stand	98000-002
VWR symphony 6.5W Water-Jacketed CO ₂ Incubator	With Infrared (IR) CO ₂ Sensor, HEPA Filter, and Mobile Support Stand	97025-842
Accessories		
HEPA and Inline Filter Kit	Replacement for 6.5W Incubators	97025-844
Support Stand	3" H (7.6 cm), with Locking Casters	98000-386
Additional Shelf	Stainless Steel (with Installation Channel)	98000-392

5.3A

VWR symphony 5.3A Air-Jacketed CO₂ Incubator

Technical Specifications			
Temperature		Shelves	
Control	±0.1°C	Dimensions (W x D)	16.7 x 17.5" (42.3 x 44.5 cm)
Range	3°C above ambient to 55°C (131°F)	Construction	Stainless steel, perforated
Uniformity	±0.3°C @ 37°C (98.6°F)	Surface Area	2.03 sq. ft. (0.18 sq. m)
Tracking Alarm	User-programmable high/low	Max. per Chamber	6.0 sq. ft. (0.54 sq. m)
Temperature Safety		Standard, Maximum	3, 10
Sensor	Independent thermostat	Construction	
Controller	Independent analog electronic	Interior Volume	5.3 cu. ft. (150 L)
Setability	0.1%	Interior	Type 304, mirror finish, stainless steel
CO₂		Exterior	18 gauge, cold-rolled steel, powder coated
CO ₂ Control	Better than ±0.1%	Electrical	
CO ₂ Range	0-20%	Rated Voltage	120V, 60Hz
Inlet Pressure Required	15 PSIG (1.0 bar)	Circuit Breaker/Power Switch	20 Amps
CO ₂ Sensor	TC or IR	Plug	NEMA 5-15
Readability & Setability	0.1%	Alarm Contacts	Power interruption; deviation of temp, CO ₂
Tracking Alarm	User-programmable low	Data Outputs	RS 232
Humidity		Dimensions	
rH	Ambient to 95% @ 37°C (98.6°F)	Exterior (W x H x D)	25 x 34 x 30" (63.7 x 86.7 x 76.6 cm)
Humidity Pan	0.8 gal. (3 L), standard	Interior (W x H x D)	18.5 x 23.9 x 20.9" (47 x 60.7 x 53 cm)
Fittings		Weight	
Access Port with Filter	1 1/4" (32 mm) with removable silicone plug	Net	154 lbs (70 kg) / 309 lbs (140 kg)
CO ₂ Inlet	1/8" hose (barbed)	Shipping	165 lbs (75 kg) / 330 lbs (150 kg)
Unit Heat Load			
120V	273 BTU/Hr		

Ordering Information		
Model	Description	Cat. No.
Single-Unit Incubators		
VWR symphony 5.3A Air-Jacketed CO ₂ Incubator	With Thermal Conductivity (TC) CO ₂ Sensor	98000-364
VWR symphony 5.3A Air-Jacketed CO ₂ Incubator	With Thermal Conductivity (TC) CO ₂ Sensor and High Temperature Decontamination	98000-362
VWR symphony 5.3A Air-Jacketed CO ₂ Incubator	With Infrared (IR) CO ₂ Sensor	98000-368
VWR symphony 5.3A Air-Jacketed CO ₂ Incubator	With Infrared (IR) CO ₂ Sensor and High Temperature Decontamination	98000-366
Dual-Stacked Incubators		
VWR symphony 5.3A Air-Jacketed CO ₂ Incubator	With Thermal Conductivity (TC) CO ₂ Sensor and Mobile Support Stand	98000-380
VWR symphony 5.3A Air-Jacketed CO ₂ Incubator	With Thermal Conductivity (TC) CO ₂ Sensor, High Temperature Decontamination, and Mobile Support Stand	98000-378
VWR symphony 5.3A Air-Jacketed CO ₂ Incubator	With Infrared (IR) CO ₂ Sensor and Mobile Support Stand	98000-384
VWR symphony 5.3A Air-Jacketed CO ₂ Incubator	With Infrared (IR) CO ₂ Sensor, High Temperature Decontamination, and Mobile Support Stand	98000-382
Accessories		
Support Stand	8" H (20.3 cm), with Locking Casters	82013-766
Additional Shelf	Stainless Steel (with Installation Channel)	98000-390

8.5A

VWR symphony 8.5A Air-Jacketed CO₂ Incubator

Technical Specifications			
Temperature		Shelves	
Control	±0.1°C	Dimensions (W x D)	22 x 19.7" (56 x 50 cm)
Range	3°C above ambient to 55°C (131°F)	Construction	Stainless steel, perforated
Uniformity	±0.3°C @ 37°C (98.6°F)	Surface Area	3.0 sq. ft. (0.28 sq. m)
Tracking Alarm	User-programmable high/low	Max. per Chamber	9.0 sq. ft. (0.84 sq. m)
Temperature Safety		Standard, Maximum	3, 10
Sensor	Independent thermostat	Construction	
Controller	Independent analog electronic	Interior Volume	8.5 cu. ft. (240 L)
Setability	0.1%	Interior	Type 304, mirror finish, stainless steel
CO₂		Exterior	18 gauge, cold-rolled steel, powder coated
CO ₂ Control	Better than ±0.1%	Electrical	
CO ₂ Range	0-20%	Rated Voltage	120V, 60Hz
Inlet Pressure Required	15 PSIG (1.0 bar)	Circuit Breaker/Power Switch	20 Amps
CO ₂ Sensor	TC or IR	Plug	NEMA 5-15
Readability & Setability	0.1%	Alarm Contacts	Power interruption; deviation of temp, CO ₂
Tracking Alarm	User-programmable low	Data Outputs (opt.)	RS 232
Humidity		Dimensions	
rH	Ambient to 95% @ 37°C (98.6°F)	Exterior (W x H x D)	30.7 x 36.8 x 32.8" (78 x 93.4 x 83.4 cm)
Humidity Pan	0.8 gal. (3 L), standard	Interior (W x H x D)	23.9 x 26.4 x 23" (60.7 x 67 x 58.3 cm)
Fittings		Weight	
Access Port with Filter	1 1/4" (32 mm) with removable silicone plug	Net	200 lbs (85 kg)
CO ₂ Inlet	1/8" hose (barbed)	Shipping	231 lbs (105 kg)
Unit Heat Load			
120V	273 BTU/Hr		

Ordering Information		
Model	Description	Cat. No.
Incubators		
VWR symphony 8.5A Air-Jacketed CO ₂ Incubator	With Thermal Conductivity (TC) CO ₂ Sensor	98000-372
VWR symphony 8.5A Air-Jacketed CO ₂ Incubator	With Thermal Conductivity (TC) CO ₂ Sensor and High Temperature Decontamination	98000-370
VWR symphony 8.5A Air-Jacketed CO ₂ Incubator	With Infrared (IR) CO ₂ Sensor	98000-376
VWR symphony 8.5A Air-Jacketed CO ₂ Incubator	With Infrared (IR) CO ₂ Sensor and High Temperature Decontamination	98000-374
Accessories		
Support Stand	8" H (20.3 cm), with Locking Casters	98000-388
Additional Shelf	Stainless Steel (with Installation Channel)	98000-394



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