

Reliable water jacket technology with effortless touchscreen control





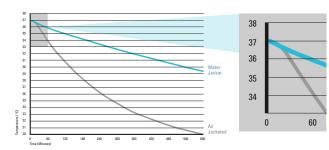
Reliability with proven water jacket technology.

Durable triple-wall construction delivers optimal temperature uniformity. And it's guaranteed for life against leakage. Provides outstanding thermal stability for your valuable cell cultures to protect against ambient temperature swings and unexpected power outages that can ruin your cultures.

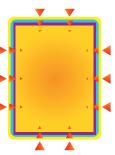
Protect your cultures from the unexpected.

Temperature loss from a power outage or extreme ambient swings can ruin your cultures. Product testing during a power failure in an 18° C (64.4° F) ambient environment showed the water jacketed incubator's temperature gradually dropping just 1° C, from 37° C to 36° C (98.6° F to 96.8° F), in 1 hour and 7.6° C in 10 hours.





Water jacketed incubator temperature versus air jacketed incubator temperature during a power failure in an 18° C ambient environment.



Water Jacket

Unique triplewall construction provides outstanding temperature stability supplied by dual layers of water and high-quality insulation.

Thermo Scientific Forma Series 3

Water Jacketed CO₂ Incubator

ORDERING INFORMATION

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Temperature			
Control	±0.1°C		
Range	5°C above ambient to 55°C (131°F)*		
Uniformity	±0.2°C @ 37°C (98.6°F)**		
Tracking Alarm	+/-1°C		
Temperature Safety			
Sensor	Precision thermistor		
Controller	Independent analog electronic		
Setability	0.1°C		
CO _{2/} O ₂			
CO ₂ /O ₂ Control	Better than ±0.1%		
CO ₂ Range	0–20%		
O ₂ Range	1–20%		
Inlet Pressure	15 PSIG (1.0 bar)		
CO ₂ Sensor	T/C or IR		
O2 Sensor	Fuel cell		
Readability & Setability	0.1%		
Tracking Alarm	+/-1%		
Humidity			
RH	Ambient to 95% @ 37°C (98.6°F)		
Humidity Pan	3.2 qt. (3.0 liters) standard		
Display (opt.)	In 1% increments		
Fittings			
Fill Port	3/8" hose (barbed)		
Drain Port	1/4" hose (barbed)		
Access Port	1.3" (3.3cm) with removable silicone plug with filter		
CO ₂ Inlet	1/4" hose (barbed)		
Unit Heat Load			
115V/230V	344 BTUH (100 Watt)		
Shelves			
Dimensions	18.5" x 18.5" (47.0cm x 47.0cm)		
Construction	Stainless steel, perforated		
Surface Area	2.4 sq. ft. (0.2 sq. m)		
Max. per Chamber	40.8 sq. ft. (3.8 sq. m)		
Standard, Maximum	4, 17		

Construction			
Water Jacket Volume	11.7 gal. (43.5 liters)		
Interior Volume	6.5 cu. ft. (184.1 liters)		
Interior	Type 304, mirror finish, stainless steel		
Exterior	18 gauge, cold-rolled steel, powder coated		
Outer Door Gasket	Four-sided, molded, magnetic vinyl		
Inner Door Gasket	Removable, cleanable, feather-edged, silicone		
Electrical			
4110/4120/4130/4140	115V, 50/60 Hz, 3.6 FLA (operating range 90–125V)		
4111/4121/4131/4141	230V, 50/60 Hz, 2.0 FLA (operating range 180–250V)		
Circuit Breaker/	6 Amps/2 Pole		
Power Switch			
Convenience Receptacle	75 Watts max. (one per chamber)		
Plug	115V: NEMA 5-15P Plug		
	230V: CEE 7/7 Plug		
Alarm Contacts	Power interruption; deviation of temp, CO ₂ , O ₂ ,		
	RH; customer connections through jack on back of unit		
Data Outputs (opt.)	USB (standard), 4–20 milliamp (optional)		
Dimensions			
Exterior	26.0"W x 39.5"H x 25.0 USB Port (standard), 4-20 ma		
	(optional)"F-B (66.0cm x 100.3cm x 63.5cm)		
Interior	21.3"W x 26.8"H x 20.0"F-B		
	(54.1cm x 68.1cm x 50.8cm)		
Weight			
Net	265 lb (120.2 kg)		
Net Operational	365 lb (165.6 kg)		
Shipping (Motor)	324 lb (147.0 kg)		

Ordering Information				
Cat. No.	CO2	02	Voltage	
4110 4111 4120 4121 4130	T/C	No	115	
4111	T/C	No	230	
4120	IR	No	115	
4121	IR	No	230	
4130	T/C	Yes	115	
4131	T/C	Yes	230	
4140 4141	IR	Yes	115	
4141	IR	Yes	230	

All units are UL Listed to United States and Canadian requirements and bear the CE Mark. *50°C (122°F) on Model 4120 (4121), 45°C (113°F) on Models 4130 (4131) and 4140 (4141). **Truncated

See how Thermo Scientific CO_2 incubators provide optimal cell growth. Learn more at www.thermoscientific.com/co2incubators

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