

Specifications and Ordering Information

Thermo Scientific Series 8000 WJ CO₂ Incubators



Technical Specifications

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	User-programmable high/low

Temperature Safety

Sensor	Precision thermistor
Controller	Independent analog electronic
Setability	0.1 °C

CO₂/O₂

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
O ₂ Sensor	Fuel cell
Readability & Setability	0.1 %
Tracking Alarm	User-programmable high/low

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 with filter	1.3" (3.3 cm) with removable silicone plug
CO ₂ Inlet	1/4" hose (barbed)

Unit Heat Load

115 V/230 V	344 BTUH (100 watt)
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Shelves (Continued)

Dimensions	18.5" x 18.5" (47.0 cm x 47.0 cm)
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	3, 16

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

All	115 V, 50/60 Hz, 3.6 FLA (Operating range 90-125 V) 230V, 50/60 Hz, 2.0 FLA (Operating range 180-250V)
Circuit Breaker/Power Switch	6 Amps/2 Pole
Convenience	75 watts max. (one per receptacle chamber)
Plug	115 V: NEMA 5-15P plug; 230 V: CEE 7/7 plug
Alarm Contacts	Power interruption; deviation of temp, CO ₂ , O ₂ , RH; customer connections through jack on back of unit

Dimensions

Exterior (w x h x f-b) inch/cm	26.0 x 39.5 x 25.0 / (66.0 x 100.3 x 63.5)
Interior (w x h x f-b) inch/cm	21.3 x 26.8 x 20.0 / (54.1 x 68.1 x 50.8)

Weight

Net	265 lbs. (120.2 kg)
Net Operational	365 lbs. (165.6 kg)
Shipping (Motor)	324 lbs. (147.0 kg)

Ordering Information

Cat No.	CO ₂	O ₂	Voltage
3428	TC	—	115 VAC
3422	IR	—	115 VAC
3424	TC	yes	115 VAC
3426	IR	yes	115 VAC

Cat No.	CO ₂	O ₂	Voltage
3429	TC	—	230 VAC
3423	IR	—	230 VAC
3425	TC	yes	230 VAC
3427	IR	yes	230 VAC

Choice of T/C or IR Sensor

Select a T/C sensor when chamber temp and RH are relatively constant. Typically, a T/C sensor has a longer life than an IR sensor.

Select an IR sensor when temp and RH levels are changed frequently. With either sensor, elevated RH is critical to prevent desiccation.

