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Incubators

THERMO ORION



(N) AIR AND WATER JACKETED CO2 INCUBATORS

Water Jacketed Incubators Models 5060 and 5062

- Water jacketed for more accurate and consistent temperature maintenance
- Automatic CO2 Control by T/C or IR sensing methods
- 100% HEPA filtered and class 100 air quality for optimum environmental conditions

Continuous status and settings feedback include temperature and CO2. HEPA filter airflow system located inside the incubator provides gentle, directed airflow with a minimum of 99.97% efficiency at 0.3 microns to provide a continuous aseptic culturing atmosphere. Within five minutes of the door closing, Class 100 air quality is achieved to provide optimum environmental conditions.

Air Jacketed Incubators Models 5050 and 5052

- Direct heat incubator with easy-to-use microprocessor control parameters
- Automatic CO2 control by T/C or IR sensor methods
- Accurate temperature control by strategic heater and temperature sensor placement

Direct heat offers the freedom from water maintenance and excess weight while providing an accurate, reliable incubator for cell culture needs. Heated outer door and non-CFC insulation reduces condensation, maximizes operational efficiency and allows a rapid return to set temperature after opening. Programmable alarm settings and remote monitoring capability.

ORN 5050	Air Jacketed Incubator with T/C sensor and 4 shelves, 115V
ORN 5052	Air Jacketed Incubator with IR sensor and 4 shelves, 115V
ORN 5060	Water Jacketed Incubator with T/C sensor and 4 shelves, 115V
ORN 5062	Water Jacketed Incubator with IR sensor and 4 shelves, 115V

Specifications

Model		5050, 5052, 5060 and 5062	Model		5050, 5052, 5060 and 5062
Temperature	Control/ Range	± 0.1 °C / + 5 °C above ambient to 55 °C (131°F)	**Shelves**	Dimensions/Construction	18.5" x 18.5" (47.0 cm x 47.0 cm)/Stainless steel, perforated
	Uniformity	± 0.2 °C @ 37 °C (98.6 °F)		Surface Area per Shelf	2.4 square ft. (0.2 square m)
	Tracking Alarm	User-programmable high/low		Max. Area per Chamber	40.8 square ft. (3.8 square m) (17 shelves)
	Overtemperature	Precision thermistor setable to 0.1 °C	**Construction**	Interior Volume	6.5 cubic ft. (184.1 liters)
	Temperature Safety	Independent thermostat and independent analog electronic		Interior	Type 304, shiny stainless steel
CO_2/ Humidity	CO_2 Control/Range	Better than ± 0.1% / 0-20%		Exterior	18 gauge, cold-rolled steel, powder coated
	Inlet Pressure	15 psig (1.0 bar)		Outer Door Gasket	Four-sided, molded, magnetic vinyl
	CO_2 Sensor/Readability	T/C or IR / 0.1%		Inner Door Gasket	Removable, cleanable, feather-edged, silicone
	Tracking Alarm	User-programmable high/low	**Electrical**	115V Models	115V, 50/60 Hz, 3.6 FLA, (Operating Range 90-125V)
	Humidity Range	Ambient to 95% @ 37 °C (98.6 °F)		Circuit Breaker/Power Switch	6 Amps/2 Pole
	Humidity Pan	3.2 qt. (3.0 liters) standard		Accessory Electrical Outlet	115V 75 Watts max. (one per chamber)
Fittings	Access Port	1-1/4" (3.2 cm) removable silicone plug with filter		Remote Alarm Contacts	RJ11 Jack (for NO, NC) for deviation of temp., CO_2, and power.
	CO_2 Inlet	1/4" hose (barbed)		Heat Load (BTU)	344 BTUH (100 watt)
	Fill/Drain Port	3/8" hose (barbed)/1/4" hose (barbed)	**Water Jacket Volume**		11.7 gal. (43.5 liters) for 5060 and 5062 only
Model		**5050 and 5052**	**5060 and 5062**		
Dimensions	Exterior	26.1"W x 38.5"H x 24.7"D (66.3 cm x 97.8 cm x 62.7 cm)	26.3"W x 39.5"H x 25.0"D (66.8 cm x 100.3 cm x 63.5 cm)		
	Interior	21.4"W x 26.8"H x 20.0"D (54.4 cm x 68.1 cm x 50.8 cm)	21.4"W x 26.8"H x 20.0"D (54.4 cm x 68.1 cm x 50.8 cm)		
	Net/Operational Weight	205 lbs. (120.2 kg)/Not Applicable	265 lbs. (120.2 kg)/365 lbs. (165.6 kg)		

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