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SciGene

Systems for Genomic and Chemical Research

Model 400 Hybridization Incubator

Quality crafted for durability and performance

Since the introduction in 1989 of hybridization incubators by Robbins Scientific, thousands of laboratories worldwide perform membrane hybridizations using these simple and versatile instruments. SciGene continues the Robbins tradition of quality by offering these same thoughtfully designed and manufactured systems.



The Model 400 Hybridization Incubator is uniquely designed with a passive heating system to provide precisely controlled temperatures within the incubator chamber. Sturdy rubber strips with embedded heating wires surround and heat the stainless steel chamber. The resulting warm air within the chamber is then circulated through movement of the rotator to ensure temperature uniformity. A precision controller regulates the temperature to ±0.10°C and displays both set and actual temperatures simultaneously. Lastly, an external jack connected to a probe within the chamber can be attached to a digital thermometer for temperature calibration and instrument certification.

Model 400 Hybridization Incubator Specifications	
Tube Capacity	10–35x300mm 20–35x150mm 6–75x300mm
Temperature Range/ Precision	Ambient +5 to 99°C (±0.10°C)
Rotator Speed	2 to 20 rpm
Dimensions	Exterior: 17.5x15.5x20 inches (44.5x39.5x56.0cm) Chamber: 14.0x14.0x14.0 inches (35.5x35.5x35.5cm)
Weight (without Rotator)	75 lbs. (34kg)

Special attention has been given to the design of the incubator chamber and door to ensure an airtight and watertight environment. The completely stainless steel interior is constructed without seams along the bottom to prevent solution leakage in the event of a spill. A removable stainless steel pan is also provided for easy cleanup of minor spills. The heavy duty, dual paned, tempered glass door has a seamless, rubber gasket and levered latching system to prevent the escape of heated air from the chamber. As an added safety feature, all SciGene incubators come with thick-walled, borosilicate glass tubes that resist breakage and provide effective radioisotope shielding. A specially designed cap made of extremely durable PBT plastic with an integral silicone o-ring provides a reliable, long-lasting seal.

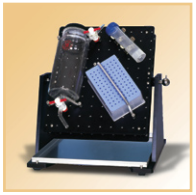
Precisely Controlled Mixing Rotation for Efficient Hybridization

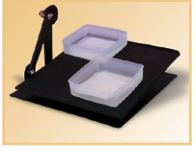
An exclusive feature found on all SciGene hybridization incubators is the use of a rotator that holds the tubes tilted and offset from the axle. The geometry of the system results in movement of the probe solution from one end of the tube to the other as rotation occurs. The resulting rigorous washing action allows the use of only a few milliliters of labeled probe solution for greater hybridization efficiency and eliminates the need for messy separating meshes. The speed of end-to-end movement of the probe is regulated by a rotary dial which adjusts the rotator speed from 2 to 20 RPM. To conveniently position the rotator for adding and removing tubes, a “jog” switch can be pressed to momentarily move the rotator when the door is open.



Rotators and Accessories for a Multitude of Samples and Uses

The Model 400 Incubator comes standard with a rotator that holds ten long (300 mm) or twenty short (150 mm) tubes along with one long glass tube with cap. Additional glass tubes and caps can be purchased separately. Five optional rotators and a rocking platform are also offered for special applications. For long transfer membranes, a rotator that holds six large, 75–300mm bottles is available. Three additional special rotators are available that hold 80x50mL, 200x15mL or 400x1.5mL capped tubes. For heating and rotating commonly used containers and racks, a general purpose rotator is available where items are secured to a rotating platform using springs and clamps. Lastly, a removable, variable speed rocking platform for heating and mixing solutions is also available.





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Ordering Information

Model 400 Hybridization Incubator		
Part No.	Description	Unit
1040-60-1	Model 400 Hybridization Incubator, 115V. Includes a standard 10/20 tube rotator and one 35x300mm tube with cap.	Each
1040-60-2	Model 400 Hybridization Incubator, 220V. Includes a standard 10/20 tube rotator and one 35x300mm tube with cap.	Each
1040-46-1	Model 400 Hybridization Incubator, 115V. Includes rotator for six large (75x300mm) tubes and one 75x300mm tube with vented cap.	Each
1040-46-2	Model 400 Hybridization Incubator, 220V. Includes rotator for six large (75x300mm) tubes and one 75x300mm tube with vented cap.	Each
Accessories for Model 400 Hybridization Incubator		
Part No.	Description	Unit
1040-21-0	Rocking platform for Model 400 Hybridization Incubator.	Each
1040-21-1	Standard 10/20 tube rotator for Model 400 Hybridization Incubator.	Each
1040-21-2	Maxi-80 rotator for 80x50mL plastic tubes for Model 400 Hybridization Incubator.	Each
1040-21-3	Maxi-200 rotator for 200x15mL plastic tubes	Each
1040-21-4	Maxi-400 rotator for 400x1.5mL plastic microcentrifuge tubes for Model 400 Hybridization Incubator.	Each
1040-21-8	Rotator for six 75x300mm glass tubes for Model 400 Hybridization Incubator.	Each
1052-23-0	General Purpose Rotator for Model 400 hybridization Incubator. Includes two of each clamp and retaining spring listed below.	Each
1052-24-0	Loading Stand for General Purpose Rotator.	Each
1052-23-1	Clamps for General Purpose Rotator, 4.8-9.5mm diameter.	10/Pack
1052-23-2	Clamps for General Purpose Rotator, 9.5-14.4mm diameter.	10/Pack
1052-23-3	Clamps for General Purpose Rotator, 14.3-22.2mm diameter.	10/Pack
1052-23-4	Clamps for General Purpose Rotator, 22.2-31.8mm diameter.	10/Pack
1052-23-5	Clamps for General Purpose Rotator, 15.9-31.8mm diameter.	10/Pack
Accessories for Model 400 Hybridization Incubator (continued)		
Part No.	Description	Unit
1052-23-6	Retaining Springs for General Purpose Rotator, 1.5 inches.	2/Pack
1052-23-7	Retaining Springs for General Purpose Rotator, 3.5 inches.	2/Pack
1052-23-8	Retaining Springs for General Purpose Rotator, 5.5 inches.	2/Pack
1052-23-9	Retaining Springs for General Purpose Rotator, 7.5 inches.	2/Pack
1040-20-5	Replacement Drip Pan for Model 400 Hybridization Incubator.	Each
Hybridization Tubes		
Part No.	Description	Unit
1040-01-0	Hybridization tube, 35x300mm with screw-cap.	Each
1040-02-0	Hybridization tube, 35x150mm with screw-cap.	Each
1040-05-0	Hybridization tube, 35x300mm without screw-cap.	Each
1040-06-0	Hybridization tube, 35x150mm without screw-cap.	Each
1040-09-0	Hybridization tube, 75x300mm with vented screw-cap.	Each

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