

GeneChip® Hybridization Oven 645

Precise temperature and rotation control designed to ensure the successful hybridization of GeneChip® Arrays

GeneChip® Hybridization Oven 645 automates the hybridization process for GeneChip® Arrays. The oven provides precise temperature and rotation control to ensure successful hybridization.

Array capacity

The oven holds up to 8 removable array carriers. Each carrier holds up to 8 arrays, enabling up to 64 arrays to be processed at the same time.

Removable array carriers

The removable array carriers allow for the addition or removal of sets of arrays with minimal disruption to the hybridization cycle. Carriers are barcoded for tracking purposes. Eight array carriers are included with each oven.

Superior temperature performance

Each oven provides precise temperature control and uniformity to generate consistent results across experiments on even the most demanding applications. Ovens meet temperature specifications

direct from the factory, avoiding the need for on-site calibration checks or procedures.

Improved ease-of-use

Integral locking clips secure arrays to the oven carousel. Hybridization temperature and rotation speed are easily set using intuitive up/down arrows on the front panel. A recessed power button protects against adverse events. The system status panel, highly visible display, and large window provide immediate confirmation of proper operation when at or near the oven.

Better utilization of lab space

Up to 2 ovens can be stacked to minimize space requirements.

Safety

The oven automatically stops the rotation when the door is opened.

Power supply range switch

The oven can be manually configured for 110 or 220V operation.

Specifications

Performance specifications	
Dimensions	18 in. wide, 20 in. high, 21 in. deep
Weight	67 lbs
Power requirements	Selectable by switch on rear panel 100 to 120VAC, 5A max. 220 to 240VAC, 2.5A max. 50 to 60Hz
Environmental requirements	Operating Temperature Range: 15°C to 30°C Operating Humidity Range: 20 to 80% Relative Humidity, Non-Condensing
Performance requirements	Rotation Speed: 10 to 80 RPM, programmable to 1 RPM Oven Set Point Range: 30.0°C to 70.0°C, programmable to 0.1°C Time to Temperature: 30 minutes from ambient to 60°C Oven Temperature Accuracy: +/-2°C from 35° to 60°C
Communications	Nine pin RS-232 port, 9,600 Baud rate, reporting temperature, rotation rate and oven status upon query
Regulatory requirements	Product Safety for Electrical Equipment for Measurement, Control and Laboratory Use (USA, Canada, EU Directive 73/23/EEC) Electromagnetic Conformity for Industrial, Scientific and Medical (ISM) equipment (USA, Canada, EU Directive 89/336/EEC) Restriction on Hazardous Substances (RoHS) (Exempt under Category 9 for EU Directive 2002/95/EC) Waste from Electrical and Electronic Equipment (WEEE) (EU Directive 2002/96/EC)

Ordering information

P/N	Description	Details
00-0331	GeneChip® Hybridization Oven 645	110 or 220V; includes 8 array carriers
90-0356	Probe Array Cartridge Carriers (Red)	Quantity of 2
90-0357	Probe Array Cartridge Carriers (Green)	Quantity of 2
90-0358	Probe Array Cartridge Carriers (Purple)	Quantity of 2
90-0359	Probe Array Cartridge Carriers (White)	Quantity of 2

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