



# Data Sheet

## GeneChip® Hybridization Oven 645

The GeneChip® Hybridization Oven 645 automates the hybridization process for GeneChip®-brand probe arrays. The oven provides precise temperature and rotation control to ensure successful hybridization. Up to 64 arrays can be processed at one time.

### Array Capacity

The oven holds up to eight removable probe array carriers. Each carrier holds up to eight arrays, enabling up to 64 arrays to be processed at one time.

### Removable Probe Array Carriers

The removable probe array carriers allow for the addition or removal of sets of probe arrays with minimal disruption to the hybridization cycle. Carriers are bar-coded for tracking purposes. Eight probe 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 probe 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 feedback of proper operation when at or near the oven.

### Better Utilization of Lab Space

Up to two 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

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

### GeneChip® Hybridization Oven 645

GeneChip® Hybridization Oven 645

**00-0331** GeneChip® Hybridization Oven 645  
(110 or 220V; includes eight probe array carriers)

**90-0356** GeneChip® Probe Array Carriers  
Red (quantity two)

**90-0357** GeneChip® Probe Array Carriers  
Green (quantity two)

**90-0358** GeneChip® Probe Array Carriers  
Purple (quantity two)

**90-0359** GeneChip® Probe Array Carriers  
White (quantity two)

### To Order

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#### Europe

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#### Japan

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**General Purpose Laboratory Instrument.**

Part No. 702502 Rev.3

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