

# The GD-4534 and GD-5040 Gel Dryers

The GD-4534 and GD-5040 vacuum gel dryers are ideal for drying sequencing gels or multiple small format gels.

A cast-aluminium base, overlaid with a porous stainless steel sheet, evenly distributes the heat generated by an 800-Watt heating element, which is set in increments of +/- 2°C to a maximum temperature of 90°C. Both the heating element and vacuum pump are timer-controlled so that the drying time and vacuum pump can be set in 1-minute increments to a maximum of 5 hours, while each unit is lightweight, despite its robust construction, for easy transportation around the laboratory. Each gel dryer can be either purchased individually or as part of a complete system with the Vacuubrand® gel pump.



## TECHNICAL SPECIFICATION

	GD-4534		GD-5040	
Unit Dimensions (W x D x H)	57 x 40 x 11cm		63 x 48 x 12cm	
Active Transfer Area (W x L)	45 x 34cm		50 x 40cm	
Sample Throughput	One 33 x 41cm TVS1400 sequencing gel; fifteen 10 x 10cm mini-gels		Two 20 x 50cm TVS1000 sequencing gels; twenty 10 x 10cm mini-gels	
Timer Range, Vacuum	0-5h		0-5h	
Timer Range, Temperature	0-5h		0-5h	
Temperature Range	Ambient-90°C		Ambient-90°C	
Recommended Drying Conditions	40min at 80°C for ≤1.5mm sequencing gel 2-3 hours at 50°C for >1.5mm agarose gel		40min at 80°C for ≤1.5mm sequencing gel 2-3 hours at 50°C for >1.5mm agarose gel	
Dimensions of Vacuum Port	Internal	External	Internal	External
	8mm	9mm	8mm	9mm
Pore Size of Porous Polyethylene Cover Sheet	0.75mm		0.75mm	
Pore Size of Stainless Steel Sheet	1mm		1mm	
Required Flow Rate of Vacuum Source	25-100L/min		25-100L/min	

## BENEFITS INCLUDE

- **2 sizes available:** -
  - GD-4534 - 45 x 34cm (W x L) format - accommodates one TVS1400 gel or up to fifteen 10 x 10cm mini-gels
  - GD-5040 - 50 x 40cm (W x L) format - accommodates up to twenty 10 x 10cm mini-gels
- **Drying assured within 1 hour** - for sequencing gels of dimensions up to 50 x 40cm
- **Accurate temperature control** - in +/- 2°C increments to a maximum of 90°C
- **Accurate timer control** - of the heating element and vacuum pump - in +/- 1 minute increments to a maximum of 5 hours
- **Detachable mylar sheet and porous polyethylene sheet** - allow the gel dryer to be adapted for thin polyacrylamide gels and thicker agarose gels
- **Stainless steel screen** - acts in conjunction with a cast-aluminium base to serve as a porous gel support, uniformly distributing the heat and vacuum to prevent gel cracking during drying
- **Translucent silicone rubber overlay** - allows the gels to be visualised during the drying process
- **Vacuubrand® MZ 2C + 2AK pump available**

For a 110VAC electrical system use codes GD-4534-A & GD-5040-A

### Complete System

	<b>Part No.</b>
45 x 34cm (W x L) Slab Gel Dryer System, including stainless steel sheet, mylar sheet, porous polyethylene sheet and clear silicone rubber overlay sheet	GD-4534

### Replacement Parts & Accessories

Stainless steel sheet for GD-4534	VGD-SSS
Mylar sheet for GD-4534	VGD-MS
Porous polyethylene sheet for GD-4534	VGD-PPS
Clear silicone rubber overlay sheet for GD-4534	VGD-SRO

### Complete System

	<b>Part No.</b>
50 x 40cm (W x L) Slab Gel Dryer System, including stainless steel sheet, mylar sheet, porous polyethylene sheet and clear silicone rubber overlay sheet	GD-5040

### Replacement Parts & Accessories

Stainless steel sheet for GD-5040	GD-SSS
Mylar sheet for GD-5040	GD-MS
Porous polyethylene sheet for GD-5040	GD-PPS
Clear silicone rubber overlay sheet for GD-5040	GD-SRO



GD-4534 shown with Vacuubrand MZ 2C+2 AK Vacuum Pump (can be purchased separately)