

# Fixed Angle Rotor, GRA-G-15-24A

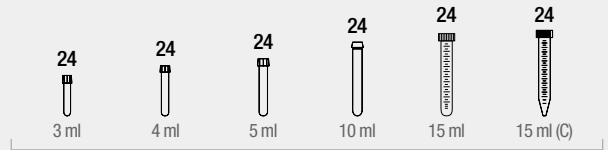
24 x 15 ml, 45° | for 1248, 1248R, 1236R, 1580, 1580R



**Sleeve, GLB-15A-FA**  
4,000 rpm / 3,134 xg



Adaptors for  
3 / 4 / 5 ml tubes



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Tube Adaptors



GAS-3(15)  
3 ml



GAS-4(15)  
4 ml



GAS-5(15)  
5 ml

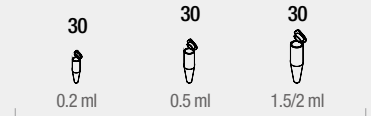
# Fixed Angle Rotor, GRF-G-m2.0-30

30 x 1.5/2.0 ml, 45° | for 1248, 1248R, 1236R, 1580, 1580R



**Rotor, GRF-G-m2.0-30**  
15,000 rpm / 24,249 xg (1580R/1580)  
12,000 rpm / 15,520 xg (1248R/1248/1236R)

Adaptors for  
0.2 / 0.5 ml tubes



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Tube Adaptors



GAS-m0.2(2)  
0.2 ml



GAS-m0.5(2)  
0.5 ml

# Fixed Angle Rotor, GRF-G-s0.2-64

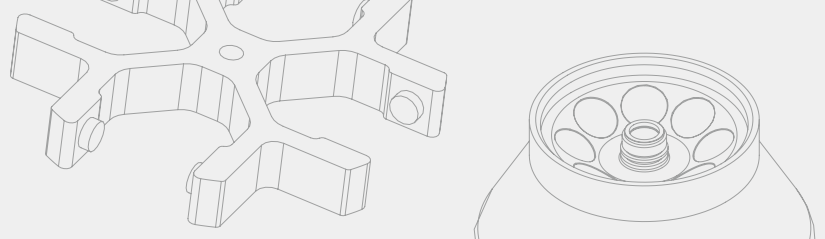
8-tube PCR strips (8-tube), 45° | for 1248, 1248R, 1236R, 1580, 1580R



**Rotor, GRF-G-s0.2-64**  
12,000 rpm  
9,434 xg (inner), 10,803 xg (outer)



PCR strip



## Ordering Information - Rotors and Buckets

Cat. No. & Description		Max. Capacity	Max. Speed		Bore Size ( $\phi$ x L, mm) or (width, mm) or (hole diameter, mm)	Max. Height for tube fit (mm)	Radius (mm)
Rotors	Buckets & Microplate Holders		RPM	RCF (xg)			
<b>Swing-out Rotor</b>							
<b>GRS-G-r750-4</b> Four-wing rectangular 750 ml swing-out rotor <i>Only for 1580 &amp; 1580R</i>	<b>GLB-r750-r750 a</b> 750 ml rectangular bucket	4 x 500 ml conical	3,600	2,898	99 x 99 x 98	135	200.0
	<b>GLB-500-r750</b> 500 ml round bucket	4 x 500 ml	3,600	3,159	69.2 x 135	165	218.0
	<b>GLP-mw-r750</b> Microplate holder	4 x 96 plate (MTP/DWP)	3,600	2,485	88 x 128.5 x 80	-	171.5
<b>GRS-G-750-4</b> Four-wing round 750 ml swing-out rotor <i>Only for 1580 &amp; 1580R</i>	<b>GLB-750-750 a</b> 750 ml round bucket	4 x 750 ml	4,000	3,667	99 x 101.5	142	205.0
	<b>GLB-b750-750 a</b> 750 ml O-ring sealed bucket	4 x 750 ml	4,000	3,667	99 x 101.5	130 (w/cap) 142 (w/o cap)	
	<b>GLB-500-750</b> 500 ml round bucket	4 x 500 ml	4,000	3,900	69.2 x 135	165	218.0
	<b>GLP-mw-750</b> Microplate holder	4 x 96 plate (MTP/DWP)	4,000	3,068	88 x 128.5 x 80	-	171.5
<b>GRS-G-r250-4</b> Four-wing rectangular 250 ml swing-out rotor	<b>GLB-r250-r250 a</b> 250 ml rectangular bucket	4 x 250 ml	4,000	3,134	86 x 70.3 x 102.5	130	175.2
	<b>GLP-mw-r250</b> Microplate holder	4 x 96 plate (MTP/DWP)	4,000	2,737	88 x 128.5 x 80	-	153.0
<b>GRS-G-250-4</b> Four-wing round 250 ml swing-out rotor	<b>GLB-c250-250</b> 250 ml conical bucket	4 x 250 ml conical	5,000	5,394	60.5 x 130.2	153	193.0
	<b>GLB-250-250</b> 250 ml round bucket	4 x 250 ml	5,000	5,394	62 x 109	153	
	<b>GLB-60-250</b> 60 ml syringe bucket	4 x 60 ml	5,000	5,394	31.5 x 130.2	165	
	<b>GLB-d20/10-250</b> 2 x 20 ml & 2 x 10 ml dual syringe bucket	4 x 2 x 20 ml/10 ml	5,000	4,752 (20 ml) 4,472 (10 ml)	22.5 x 100 (20 ml) 16 x 90 (10 ml)	132 (20 ml) 125 (10 ml)	170 (20 ml) 160 (10 ml)
<b>GRS-G-100-6</b> Six-wing 100 ml O-ring sealed (b100) swing-out Rotor	<b>GLB-b100-100 a</b> 100 ml O-ring sealed bucket	6 x 100 ml	4,000	3,105	47 x 99	120 (w/cap) 130 (w/o cap)	173.6
	<b>GLB-10-8-100</b> 8 x 10 ml vacutainer bucket	6 x 8 x 10 ml	4,000	3,105	16 x 89	125	173.6
	<b>GLB-b50-100 a</b> 50 ml O-ring sealed bucket	6 x 50 ml	4,000	3,032	30.5 x 97	120 (w/ cap) 125 (w/o cap)	169.5
	<b>GLB-bd15-100</b> 2 x 15 ml O-ring sealed bucket	6 x 2 x 15 ml	4,000	3,032	17 x 96	123 (w/ cap) 127 (w/o cap)	
	<b>GLB-bdc15-100</b> 2 x 15 ml conical O-ring sealed bucket	6 x 2 x 15 ml conical	4,000	3,105	17 x 102.5	120 (w/ cap) 125 (w/o cap)	173.6
<b>Fixed Angle Rotor</b>							
<b>GRA-G-15-24A</b> Fixed angle rotor with 24 of 15 ml sleeves	<b>GLB-15A-FA a</b> 15 ml sleeve for holding 15 ml round or conical tubes	15 ml x 24	4,000	3,134	17.8 x 86.5	125 (120 for conical)	175.2
<b>GRF-G-250-6</b> Fixed angle 250 ml / 15 ml rotor with aluminum lid <i>Only for 1580R</i>		6 x 250/15 ml	8,000	9,588 (250 ml) 9,395 (15 ml)	62 (250 ml) 17 (15 ml)	130 (250 ml) 120 (15 ml)	134 (250 ml) 131.3 (15 ml)
<b>GRF-G-85-6 a</b> Fixed angle 85 ml rotor with aluminum lid		6 x 85 ml	10,000 (except 1580R) 12,000 (1580R)	12,298 (except 1580R) 17,709 (1580R)	38.5	122	110
<b>GRF-G-50-8 a</b> Fixed angle 50 ml rotor with aluminum lid <i>for 1248R, 1236R, 1580, 1580R</i>		8 x 50 ml	12,000 (1248R/1236R/1580) 15,000 (1580R)	16,582 (1248R/1236R/1580) 25,910 (1580R)	29.5	120	103
<b>GRF-G-15-24</b> Fixed Angle 15 ml Rotor with aluminum lid <i>Only for "R" Models</i>		24 x 15 ml	8,000	7,370 (inner) 8,872 (outer)	17.5	115	103 (inner) 124 (outer)
<b>GRF-G-m2.0-30 a</b> Fixed angle microtube rotor with aluminum lid		30 x 1.5/2.0 ml	12,000 (1248R/1248/1236R) 15,000 (1580R/1580)	15,520 (1248R/1248/1236R) 24,249 (1580R/1580)	11.1	52	96.4
<b>GRF-G-s0.2-64</b> Fixed angle PCR strip rotor with aluminum lid		8 x PCR strips	12,000	9,434 (inner) 10,803 (outer)	6.5	16	58.6 (inner) 67.1 (outer)

**a** : Optional tube adaptors are available.