

Chapter 2 Specifications

Dimensions and Weight

	CL31	CL31R
Dimensions (HxWxD)	375 x 400 x 500 mm	380x 575 x 620 mm
Packed (HxWxD)	600 x 580 x 640 mm	630 x 730 x 750 mm
Weight - uncrated/crated	40 kg / 52 kg	72 kg / 85 kg

Electrical Specifications

	CL31			CL31R				
Operating Voltage ($\pm 10\%$)	230 V	120 V	100 V	230 V	120 V	100 V	100 V	
	50/60 Hz	60 Hz	50/60 Hz	50/60 Hz	60 Hz	50 Hz	60 Hz	
Operating current	(steady)	2,8 Arms	4,3 Arms	4,9 Arms	2,9 Arms	6,8 Arms	7 Arms	
	(acceleration)	5,5 Arms	9,5 Arms	10,5 Arms	9 Arms	13,3 Arms	13 Arms	
Power max	(steady)	350 W			600 W			
	(acceleration)	1000 W			1300 W			
Heat dissipation	1195 BTU/h			2050 BTU/h				

Performance

	CL31	CL31R
Max power	500 W	800 W
Average power	350 W	550 W
Refrigeration	235 W	

CL31	CL31R	
Max speed	Swing-out: 4100 rpm Angle: 14600 rpm	
Max RCF	Swing-out: 3176 xg Angle: 23113 xg	
Max capacity	Swing-out: 4 x 280 ml Angle: 6 x 100 ml	
Microprocessor controlled		
Display	High visibility digital display	
Memory size	5 programs, direct access	
Program protection	Recall key lock	
Speed	Range	500 to 14600 rpm
	Step	10 -100 rpm
	Accuracy	± 20 rpm
Timer	Range	30 sec to 99 min + hold position
	Step	30 sec to 1 min

CL31 CL31R

Acceleration rates	5	
Braking rates	5	
Temperature (CL31R)	Range	-9°C to +40°C
	Step	1°C
	Accuracy	± 1.5°C
Typical performance	4°C at 4 000 rpm, (4 x 280 ml swing-out)	
	1°C at 14 000 rpm, (24 x 1.5 ml angle)	
Maximum density	1.2 g/cm ³	
Maximum energy	14 400 J	