

INTRODUCTION

This manual covers the specifications, operation and use of the Labnet series of Problot Hybridization Ovens including Problot 6, Problot 12, Problot 12S and Problot 24. Please pay special attention to the **Safety Precautions** section in this manual.

Problot Hybridization Ovens from Labnet International provide extremely stable temperature environments and smooth variable speed rotation that are ideal for blot hybridization and blot washing activities.

Labnet's Problot Hybridization Ovens use microprocessor controls and mechanical convection to maintain a stable temperature environment and to achieve fast chamber temperature recovery after a door opening. The oven interior is constructed from stainless steel for corrosion resistance and the oven includes a drip pan for easy clean-up of accidental spills. Problot rotisseries are easily removed from the oven and are adjustable for either horizontal or more vigorous angled blot washing. All oven doors have an integral glass window to allow observation of samples without opening the door and each door is fully thermal gasketed.

An optional rocking platform is available for each oven and the Problot Model 12S includes an integral orbital shaking platform (10mm orbit) with optional flask platform.

Labnet Hybridization Bottles are recommended for optimum Problot Oven performance. These bottles are made of high quality borosilicate glass, which provides a high level of protection from the 32P beta emissions.

SPECIFICATIONS

Chamber temperature range	Ambient +5C to 80C	
Accuracy / Uniformity	+/-0.1C / +/-0.5C	
Rotisserie Speed	4 to 20 rpm	
Optional rocker speed	8 to 40 rocks per minute	
Shaker speed (Problot 12S only)	10 to 300 rpm at a maximum load of 4kg, 10mm orbit	
Shaker timer (Problot 12S only)	Continuous (RUN) or 0 to 120 minutes timed	
Interior electrical outlet	1 amp (on 120V Problot 6, 12 and 24 models only)	
Electrical Ratings and Unit Size	Exterior (WxDxH) Chamber (WxDxH)	
Problot 6&12	120V, 50/60Hz, 6 amps 220V, 50/60Hz, 3 amps	483x445x495mm 368x279x343mm
Problot 12S	120V, 50/60Hz, 6 amps 220V, 50/60Hz, 3 amps	483x445x495mm 368x279x343mm
Problot 24	120V, 50/60Hz, 7 amps	627x422x826mm 2 x 368x279x343mm

UNPACKING

Upon receipt of your Problot Hybridization Oven, examine the carton and unit for damages. If shipping damage has occurred, a claim must be filed with the carrier. The carrier is responsible