



...means electrophoresis

Gel dryer HFD

Users manual

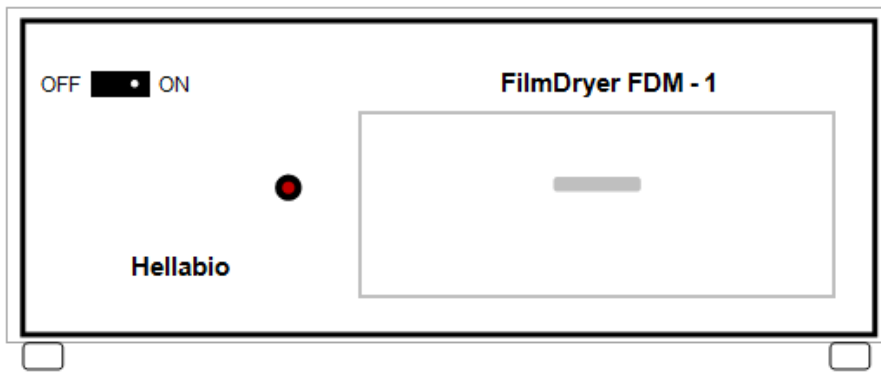


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1. Introduction

This manual contains information and warnings, which must be followed to ensure safe operation and retain the Drier in safe condition.



Warning

READ "SAFETY PRECAUTIONS" BEFORE USING, INSTALLING OR MAINTENANCE THE INSTRUMENT

The hot air gel dryer is suitable for drying agarose gels up to 12x15 cm. The dryer is easy to use and produces high-quality results. The temperature in the chamber is ideal for quick drying of the gel, without causing curvature in the film. Drying times vary, depending on gel concentration and gel thickness.

Unpacking and Inspection

The packing should include the following items:

1. Gel dryer
2. Power line cord
3. Instructions for use

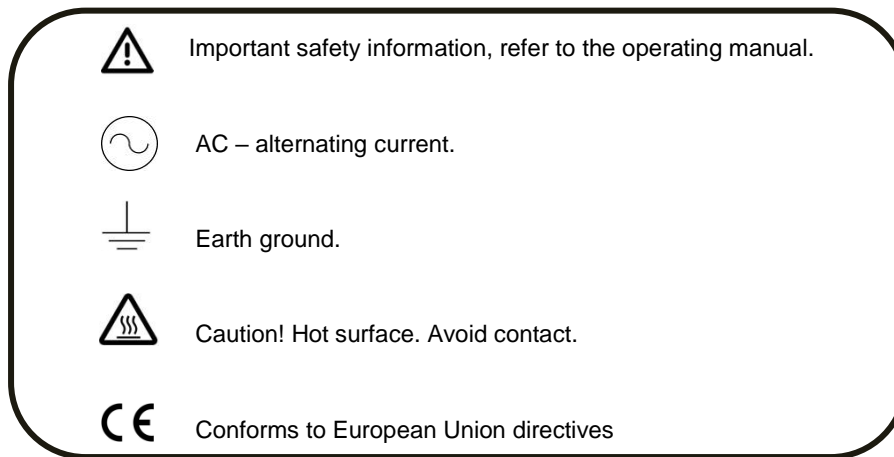
Please check to see that all of the above items are included.

Safety Precautions

The device is capable of delivering hazardous voltages to the life of the operator. This manual contains important information on the use and safety of the operator and must be read with great care. Although care has been taken to ensure that the device is safe, caution should always be exercised due to high voltages.

- i) DO NOT touch the gel Drier outlets with bare fingers, or with a metallic object. Always be with a second person in the area in case of an accident.*
- ii) DO NOT make other connections, except those recommended in the manual.*
- iii) DO NOT disassemble the device for any reason. **Electric shock hazard!***
- iv) DO NOT expose the device to rain or other liquids.*
- v) DO NOT close the ventilation holes. Risk of overheating or fire.*
- vi) Avoid dropping the device. The device is heavy and there is a risk of damaging various components. If the device falls of the workbench, DO NOT turn it on, if the device is not checked by an authorized technician.*
- vii) Do not place the device near or above heat sources.*
- viii) Do not expose the device directly to solar radiation.*

Safety Symbols



2. Declaration of Conformity

TO WHOM IT MAY CONCERN

We, **DIMITRIADIS IOANNIS AND SON PC**, certify that the manual electrophoresis system (Power supply HPS01, Gel dryer HFD and Electrophoresis tank HET01 and HET02) has been manufactured according to the regulations of the following European directives proven through complete compliance with the following standards:

Application of Council Directives:	EMC Directive:2004/108/EC LVD Directive: 2006/95/EC	
Standards by which conformity has been established:	EN 61326-1:2006 EN 61010-1:2001	EMC LVD
Tests performed:	EN55011:2007 EN55011: 2007 EN6100-4-5:2006 EN61000-4-2:1995 EN61000-4-4:2004 EN61000-4-6:1996 EN61000-4-3:2006 EN61000-4-11:2004 EN61010-1:2002	RADIATED EMISSIONS CONTACTED EMISSIONS SURGES ESD EFT INJECTION CURRENT RF EM FIELD IMMUNITY DIPS/INTERRUPTION LVD
The equipment as mentioned above was tested to be stated standards and directives and was found to be COMPLIANT with the applicable standards.		
Authorized Representative :	HELLABIO LABORATORY OF RESEARCH AND PRODUCTION OF BIOLOGICAL PRODUCTS	
Regulatory Manager :	Dr. Dimitriadis Ioannis	
Quality system :	ISO 13485 :2016	

3. Operation



Warning

TO AVOID ELECTRIC SHOCK OR PERSONAL INJURY, READ "SAFETY PRECAUTIONS" BEFORE OPERATION.

Before making any operation always examine the AC Gel Drier and accessories used with it for damage and defects. Examine the test leads for cracked or frayed insulation and make sure the lead plugs fit snugly into the output jacks. If any abnormal exist do not attempt to make any operation.

Introduction

The device is designed for electrophoresis applications. Do not use it for any other purpose.

Operating procedure:

- During the electrophoresis procedure preheat the gel dryer (≈ 20 minutes)
- Automatically the temperature increases in about $80-85^{\circ}\text{C}$.
- Gently pull out the gel holder.
- Let the gel in horizontal position
- Push in the gel holder
- In about 20-25 minutes the gel is dried and is ready to stain.
- Turn off the drier.

4. Technical problems

If there are technical problems, you can initially do the following first checks:

1. If the device **DOES NOT** work at all.
Check the plug with another device.
Check for blown fuse in the power cord socket.
2. If the device lights up but does not respond.
Turn off the device for 1 minute and turn it on again.

If none of the above helps, you should immediately contact the seller or manufacturer for repairing your device.