



Instruction Manual
Dylastir® Stirrer, Dylatherm®
Hotplate
Dyla-Dual® Hotplate-Stirrer

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PACKAGE CONTENTS

Dylastir Stirrer, Dylatherm Hotplate, or Dyla-Dual Hotplate-Stirrer
72" (183cm) power cord
Stir bar (stirring models only)
Instruction manual

WARRANTY

Manufacturer warrants this product to be free from defects in material and workmanship when used under normal conditions for five (5) years. Register your equipment or instrument online at: www.vwrs.com/warranty for US residents or www.vwrcanlab.com/warranty for Canadian residents. For your reference, make a note of the serial number, date of purchase and supplier here.

Serial No.: _____ Date of Purchase: _____

Supplier: _____

MAINTENANCE & SERVICING

The Dylastir/Dylatherm/Dyla-Dual is built for long, trouble-free, dependable service. No lubrication or other technical user maintenance is required. It needs no user maintenance beyond keeping the surfaces clean. The unit should be given the care normally required for any electrical appliance. Avoid wetting or unnecessary exposure to fumes. Spills should be removed promptly after the unit has cooled down. Do not use a cleaning agent or solvent on the front panel which is abrasive or harmful to plastics, nor one which is flammable. Always ensure the power is disconnected from the unit prior to any cleaning. If the unit ever requires service, contact your VWR representative.

INSTALLATION

Upon receiving the VWR Dylastir/Dylatherm/Dyla-Dual, check to ensure that no damage has occurred in shipment. It is important that any damage that occurred in transport is detected at the time of unpacking. If you do find such damage the carrier must be notified immediately.

After unpacking, place the Dyla Series unit on a level bench or table, away from explosive vapors. Ensure that the surface on which the unit is placed will withstand typical heat produced by the unit and place the unit a minimum of six (6) inches from vertical surfaces. Always place the unit on a sturdy work surface.

The Dyla Series unit is supplied with a 3-prong power cord that should be plugged into a standard 3-prong grounded outlet. If the cord supplied does not meet your needs, please use an approved power cord that suits local codes and electric supply. Replacement of the plug must be made by a qualified electrician.

ENVIRONMENTAL CONDITIONS

Operating Conditions: Indoor use only.

Temperature: 5 to 40°C (41 to 104°F)
Humidity: 20% to 80% relative humidity, non-condensing
Altitude: 0 to 6,562 ft (2000 M) above sea level

Non-Operating Storage:

Temperature: -20 to 65°C (-4 to 149°F)
Humidity: 20% to 85% relative humidity, non-condensing

Installation Category II and Pollution Degree 2 in accordance with IEC 664.

EQUIPMENT DISPOSAL



This equipment must not be disposed of with unsorted waste. It is your responsibility to correctly dispose of the equipment at life-cycle-end by handing it over to an authorized facility for separate collection and recycling. It is also your responsibility to decontaminate the equipment in case of biological, chemical and/or radiological contamination, so as to protect the persons involved in the disposal and recycling of the equipment from health hazards.

For more information about where you can drop off your waste of equipment, please contact your local dealer from whom you originally purchased this equipment. By doing so, you will help to conserve natural and environmental resources and you will ensure that your equipment is recycled in a manner that protects human health.

SAFETY INSTRUCTIONS

Please read the entire instruction manual before operating the Dylastir/Dylatherm/Dyla-Dual.



WARNING! DO NOT use the Dylastir/Dylatherm/Dyla-Dual in a hazardous atmosphere or with hazardous materials for which the unit was not designed. Also, the user should be aware that the protection provided by the equipment may be impaired if used with accessories not provided or recommended by the manufacturer, or used in a manner not specified by the manufacturer.

Always operate unit on a level surface for best performance and maximum safety.



DO NOT lift unit by the top plate.

CAUTION! To avoid electrical shock, completely cut off power to the unit by disconnecting the power cord from the wall outlet. Disconnect unit from the power supply prior to maintenance and servicing.

Spills should be removed promptly after the unit has cooled down. Alkalis spills, hydrofluoric acid or phosphoric acid spills may damage the unit and lead to thermal failure. DO NOT immerse the unit for cleaning.



CAUTION! The top plate can reach 400°C, DO NOT touch the heated surface. Use caution at all times. Keep the unit away from explosive vapors and clear of papers, drapery and other flammable materials. Keep the power cord away from the heater plate.

DO NOT operate the unit without a vessel/sample on the top plate.

DO NOT operate the unit if it shows signs of electrical or mechanical damage.

CAUTION! Hotplates are not explosion proof. Use caution when heating volatile materials.



Earth Ground - Protective Conductor Terminal

~
Alternating Current

SPECIFICATIONS

Overall dimensions (L x W x H): 8.75 x 8 x 4.75" (22.2 x 20.3 x 12.1cm)

Top plate dimensions (Dia.): 6.5" (16.5cm)

Top plate material: aluminum

Electrical (50/60 Hz)	Dylastir:	120 volts, .5 amps, 20 watts
		230 volts, .25 amps, 20 watts
	Dylatherm/Dyla-Dual:	120 volts, 10 amps, 575 watts
		230 volts, 5 amps, 575 watts

Temperature range Dylatherm/Dyla-Dual: to 400°C

Speed range Dylastir/Dyla-Dual: 100 to 1200rpm

Weight capacity:
1500mL, gross weight should not exceed 10lbs (4.5kg)

Controls:
heat knob with indicator light
stir knob with indicator light

Ship weight: 4.6lbs (2.1kg)

STIRRING OPERATING INSTRUCTIONS

1. Get ready:
Turn stir knob to the off position, at the extreme counter-clockwise position. Plug power cord into a standard 3-prong grounded outlet. Place a vessel with the solution and the appropriate accessories in the center of the top plate.
2. Set speed:
Slowly turn the stir knob clockwise until the pointer reaches the desired set speed. The stirrer may initially have to be set at a higher speed to overcome friction in the motor and the material being stirred.
3. Adjust speed:
Speed adjustments can be made without interrupting stirring by turning the indicator knob clockwise to increase speed, or counter-clockwise to decrease speed.
4. Stop:
To stop stirring, turn the stir knob to the extreme counter-clockwise position, until it clicks. Your vessel can then be removed. The stirring knob should be kept in the off position when not in use.

CONSIGNES DE SÉCURITÉ

Veillez lire l'intégralité du mode d'emploi avant d'utiliser le Dylastir/Dylatherm/Dyla-Double.



Avertissement! N'utilisez pas le Dylastir/Dylatherm/Dyla-Dual dans une atmosphère dangereuse ou avec des matériaux dangereux pour lesquels l'appareil n'a pas été conçu. De plus, l'utilisateur doit être conscient que la protection fournie par l'équipement peut être altérée s'il est utilisé avec des accessoires non fournis ou recommandés par le fabricant, ou s'il est utilisé d'une manière non spécifiée par le fabricant.

Faites toujours fonctionner l'appareil sur une surface plane pour de meilleures performances et une sécurité maximale.

Ne soulevez pas l'unité par la plaque supérieure.



Mise en garde! Pour éviter tout choc électrique, coupez complètement l'alimentation de l'appareil en débranchant le cordon d'alimentation de la prise murale. Débranchez l'appareil de l'alimentation électrique avant la maintenance et l'entretien.

Les déversements doivent être éliminés rapidement après le refroidissement de l'appareil. Les déversements d'alcalis, d'acide fluorhydrique ou d'acide phosphorique peuvent endommager l'appareil et entraîner une défaillance thermique. N'immergez pas l'appareil pour le nettoyer.

Mise en garde! La plaque supérieure peut atteindre 400°C, NE PAS toucher la surface chauffée. Utiliser



prudence de tous les instants. Gardez l'appareil à l'écart des vapeurs explosives et à l'écart des papiers,

tentes et autres matériaux inflammables. Maintenez le cordon d'alimentation éloigné de la plaque chauffante.

Ne faites pas fonctionner l'appareil sans récipient/échantillon sur la plaque supérieure.

Ne faites pas fonctionner l'appareil s'il présente des signes de dommages électriques ou mécaniques.



Mise en garde! Les plaques chauffantes ne sont pas antidéflagrantes. Soyez prudent lorsque vous chauffez des produits volatils

matériaux.

Terre - Borne du conducteur de protection

Courant alternatif

CARACTÉRISTIQUES

Dimensions hors tout (L x W x H): 8.75 x 8 x 4.75" (22.2 x 20.3 x 12.1cm)

Dimensions de la plaque supérieure (diamètre): 6.5" (16.5cm)

Matériau de la plaque supérieure : aluminum

Électrique (50/60 Hz)	Dylastir:	120 volts, .5 ampères, 20 watts 230 volts, .25 ampères, 20 watts
	Dylatherm/Dyla-Dual:	120 volts, 10 ampères, 575 watts 230 volts, 5 ampères, 575 watts

Plage de température Dylatherm/Dyla-Dual: to 400°C

Plage de vitesse Dylastir/Dyla-Dual: 100 to 1200rpm

Capacité de poids: 1500mL, le poids brut ne doit pas dépasser 10lbs (4.5kg)

Commandes: bouton de chauffage avec voyant lumineux
bouton d'agitation avec voyant lumineux

Poids du navire: 4.6lbs (2.1kg)

AGITATION MODE D'EMPLOI

1. Préparez-vous :

Tournez le bouton d'agitation en position d'arrêt, à l'extrême dans le sens antihoraire. Branchez le cordon d'alimentation dans une prise standard à 3 broches avec mise à la terre. Placez un récipient avec la solution et les accessoires appropriés au centre de la plaque supérieure.

2. Réglez la vitesse :

Tournez lentement le bouton d'agitation dans le sens des aiguilles d'une montre jusqu'à ce que le pointeur atteigne la vitesse de consigne souhaitée. L'agitateur peut initialement devoir être réglé à une vitesse plus élevée pour surmonter les frottements dans le moteur et le matériau agité.

3. Réglez la vitesse :

Les réglages de vitesse peuvent être effectués sans interrompre l'agitation en tournant le bouton indicateur dans le sens des aiguilles d'une montre pour augmenter la vitesse ou dans le sens inverse des aiguilles d'une montre pour diminuer la vitesse.

4. Arrêtez :

Pour arrêter l'agitation, tournez le bouton d'agitation à la position extrême dans le sens inverse des aiguilles d'une montre, jusqu'à ce qu'il s'enclenche. Votre navire peut alors être retiré. Le bouton d'agitation doit être maintenu en position d'arrêt lorsqu'il n'est pas utilisé.

HEATING OPERATING INSTRUCTIONS

1. Get ready:

Turn heat knob to the off position, at the extreme counter-clockwise position. Plug power cord into a standard 3-prong grounded outlet. Place a vessel with the solution and the appropriate accessories in the center of the top plate. This is important because the vessel should be over the hottest part of the top plate.

2. Set temperature:

Turn the heat knob clockwise until the pointer reaches the selected heat setting. As soon as this is done, the red pilot light will flash on and will stay illuminated until the hotplate reaches the selected temperature setting (graduations on the panel surrounding the control knob are reference marks only and do not indicate specific temperatures). The pilot light will continue to light intermittently as the thermostat acts to maintain this temperature. Rotating the heat control to its full on position will bring the hotplate surface to its maximum temperature of about 400°C. After cycling for a short period, the plate temperature should stabilize between 350°C and 400°C, when the control setting is left on "HIGH". To prevent possible damage, however, this position should not be maintained indefinitely. DO NOT allow the unit to operate at maximum temperature without a beaker or flask (with fluid) on the top plate.

3. Adjust temperature:

Temperature adjustments can be made without interrupting heating by turning the indicator knob clockwise to increase heat, or counter-clockwise to decrease heat.

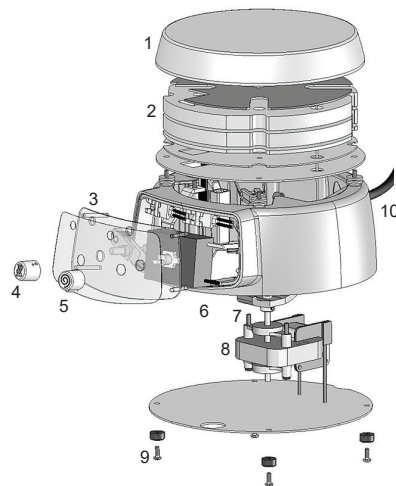
4. Stop:

To stop heating, turn the heat knob to the extreme counter-clockwise position. Your vessel can then be removed. The heating knob should be kept in the off position when not in use.

PLEASE NOTE: When using stirrer and heater simultaneously, the stir setting will need to be increased to maintain the same speed as when the heater is off. This will not effect the operation of the unit. If unit appears to stop stirring, turn the knob to a higher speed setting. Multiple units plugged into the same outlet can result in a voltage drop. Once the units are heated up, the speed will stabilize.

REPLACEMENT PARTS

DESCRIPTION	PART NUMBER	DESCRIPTION	PART NUMBER
1. Top plate	80854058	6. Speed control	80856245
2. Heater (heating only)	80856246	7. Magnet assembly	80857177
3. Thermostat	80856248	8. Motor	80856719
4. Heat knob	80854049	9. Feet	80857188
5. Stir knob	80854050	10. Power cord	80856125



MANUFACTURED BY:

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