

# OPERATING INSTRUCTIONS

## High Speed Stirrer

### 24-4125

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<p><i>In the interests of improving and updating its equipment, ELE reserves the right to alter specifications to equipment at any time</i> <b>ELE International 2006 ©</b></p>		

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## 1 Safety

This equipment has been tested and is safe to use providing that the proper safety precautions are observed:

***Do not use this equipment in any manner, other than as specified in this user manual; misuse may result in serious injury to personnel.***

***Do not attempt to operate the equipment with covers removed.***

***Only connect to the correct electrical supply. Equipment voltage setting is stated on the fuse cover of the appliance inlet module.***

***Refer to Installation section before installing machine.***

***Do not operate machine with wet hands.***

Please read this entire manual before unpacking, setting up or operating this equipment. Pay particular attention to all **DANGER** and **CAUTION** statements. Failure to do so could result in serious injury to the operator, or other personnel, or damage to the equipment.

### 1.1 Key to hazard information

**DANGER :**

Indicates a potentially or imminently hazardous situation which, if not avoided, could result in death or serious injury.

**CAUTION :**

Indicates a potentially hazardous situation that may result in minor or moderate injury.

**Important Note:** Information that requires special emphasis.

**Note:** Information that supplements points in the main text.

## 2 Introduction

2.1 The high speed stirrer is a bench top stirrer used for dispersing soil samples in water for the hydrometer analysis.

2.2 The high speed stirrer conforms to requirements in ASTM D422 and AASHTO T88.

2.3 The high speed stirrer is supplied complete with mixing paddle and dispersion cup.

## 3 Specification

Supply voltage	220-240 VAC, 50Hz
Power consumption	120W
Certification	CE

## 4 Installation

4.1 When unpacking, make sure the high speed stirrer is not damaged or any parts are missing.

4.2 It is strongly recommended that the high speed stirrer is located on a flat and stable bench top. A mains power supply will be required at the location (see Electrical Power Supply for correct mains power installation).

## 5 Electrical Power Supply

### *Electrical Safety*

**Danger** : Before removing any cover or performing maintenance repair and service, isolate from electrical supply by removing mains plug. Where mains supply is required during these activities, only competent persons should perform the work.

**Danger** : Installation and servicing must be carried out by a qualified person.

**Danger** : A good low impedance Protective Earth Ground connection is required for this product.

**Danger** : It is recommended that this equipment is connected to a mains supply using an RCCB “Residual Current Circuit Breaker” for extra electrical safety protection.

**Danger** : Check that the power supply is compatible with the requirements stated on the voltage label on the unit and connect in accordance with IEE regulations or to local requirements.

**Danger** : Do not use the high speed stirrer with wet hands. Dry hands carefully before touching any part of the stirrer.

Power Cable is coded as follows:-

Brown wire	L	Live or Power
Blue wire	N	Neutral
Green/Yellow wire	E	Earth or Ground

## 6 Operation

**Caution** : Always use suitable protective garments and glasses to protect the operator from splashes from the material being stirred.

- 6.1 Do not run the stirrer when the sample container is empty.
- 6.2 Do not place excessive amounts of material in the sample container.
- 6.3 Make sure the ON/OFF push button switch at the base of the unit is in the extended position and the unit is therefore switched off.
- 6.4 Switch on the mains supply.
- 6.5 Remove the sample container.
- 6.6 Place the soil sample and baffle assembly into the sample container.
- 6.7 Place the sample container onto the stirrer making sure the lip of the sample container is clipped correctly over the upper support and against the two rubber pads on the lower support.
- 6.8 Once the container is in its correct and stable location, switch on the stirrer by pressing the ON/OFF push button at the base of the unit.
- 6.9 To stop the stirrer press the ON/OFF push button and the unit should stop.  
**Caution:** Make sure the stirrer shaft has come to a complete standstill before removing the sample container.
- 6.10 After use, it is recommended to remove the mains power supply from the unit for general safety.

## **7 Maintenance**

***Danger*** : Isolate the high speed stirrer from the mains power supply before attempting any cleaning or maintenance processes.

- 7.1 The high speed stirrer does not require any routine maintenance other than cleaning.
- 7.2 The outer surfaces of the stirrer should be cleaned with a slightly damp cloth.
- 7.3 To clean the beater, fill the sample container with warm water and run the unit for 1 to 2 minutes.
- 7.4 ***Danger*** : Do not submerge or spray the high speed stirrer with water to clean the complete unit.

## **8 Spares**

Please contact ELE service department for any spares requirements.

## DIRECTIVE ON WASTE ELECTRICAL & ELECTRONIC EQUIPMENT (WEEE)



Electrical equipment marked with this symbol may not be disposed of in European public disposal systems after 12 August of 2005. In conformity with European local and national regulations (EU Directive 2002/96/EC), European electrical equipment users must now return old or end-of life equipment to the Producer for disposal at no charge to the user.

**Note:** For return for recycling, please contact the equipment producer or supplier for instructions on how to return end-of-life equipment for proper disposal.

**Important document. Retain with product records.**

### GERMAN

Elektrogeräte, die mit diesem Symbol gekennzeichnet sind, dürfen in Europa nach dem 12. August 2005 nicht mehr über die öffentliche Abfallentsorgung entsorgt werden. In Übereinstimmung mit lokalen und nationalen europäischen Bestimmungen (EU-Richtlinie 2002/96/EC), müssen Benutzer von Elektrogeräten in Europa ab diesem Zeitpunkt alte bzw. zu verschrottende Geräte zur Entsorgung kostenfrei an den Hersteller zurückgeben.

**Hinweis:** Bitte wenden Sie sich an den Hersteller bzw. an den Händler, von dem Sie das Gerät bezogen haben, um Informationen zur Rückgabe des Altgeräts zur ordnungsgemäßen Entsorgung zu erhalten.

**Wichtige Informationen. Bitte zusammen mit den Produktinformationen aufbewahren.**

### FRENCH

A partir du 12 août 2005, il est interdit de mettre au rebut le matériel électrique marqué de ce symbole par les voies habituelles de déchetterie publique. Conformément à la réglementation européenne (directive UE 2002/96/EC), les utilisateurs de matériel électrique en Europe doivent désormais retourner le matériel usé ou périmé au fabricant pour élimination, sans frais pour l'utilisateur.

**Remarque :** Veuillez vous adresser au fabricant ou au fournisseur du matériel pour les instructions de retour du matériel usé ou périmé aux fins d'élimination conforme.

**Ce document est important. Conservez-le dans le dossier du produit.**

### ITALIAN

Le apparecchiature elettriche con apposto questo simbolo non possono essere smaltite nelle discariche pubbliche europee successivamente al 12 agosto 2005. In conformità alle normative europee locali e nazionali (Direttiva UE 2002/96/EC), gli utilizzatori europei di apparecchiature elettriche devono restituire al produttore le apparecchiature vecchie o a fine vita per lo smaltimento senza alcun costo a carico dell'utilizzatore.

**Nota:** Per conoscere le modalità di restituzione delle apparecchiature a fine vita da riciclare, contattare il produttore o il fornitore dell'apparecchiatura per un corretto smaltimento.

**Documento importante. Conservare con la documentazione del prodotto.**

### DANISH

Elektriske apparater, der er mærket med dette symbol, må ikke bortskaffes i europæiske offentlige affaldssystemer efter den 12. august 2005. I henhold til europæiske lokale og nationale regler (EU-direktiv 2002/96/EF) skal europæiske brugere af elektriske apparater nu returnere gamle eller udtjente apparater til producenten med henblik på bortskaffelse uden omkostninger for brugeren.

**Bemærk:** I forbindelse med returnering til genbrug skal du kontakte producenten eller leverandøren af apparatet for at få instruktioner om, hvordan udtjente apparater bortskaffes korrekt.

**Vigtigt dokument. Opbevares sammen med produktdokumenterne.**

## SWEDISH

Elektronikutrustning som är märkt med denna symbol kanske inte kan lämnas in på europeiska offentliga sopsstationer efter 2005-08-12. Enligt europeiska lokala och nationella föreskrifter (EU-direktiv 2002/96/EC) måste användare av elektronikutrustning i Europa nu återlämna gammal eller utrangerad utrustning till tillverkaren för kassering utan kostnad för användaren.

**Obs!** Om du ska återlämna utrustning för återvinning ska du kontakta tillverkaren av utrustningen eller återförsäljaren för att få anvisningar om hur du återlämnar kasserad utrustning för att den ska bortskaffas på rätt sätt.

**Viktigt dokument. Spara tillsammans med dina produktbeskrivningar.**

## SPANISH

A partir del 12 de agosto de 2005, los equipos eléctricos que lleven este símbolo no deberán ser desechados en los puntos limpios europeos. De conformidad con las normativas europeas locales y nacionales (Directiva de la UE 2002/96/EC), a partir de esa fecha, los usuarios europeos de equipos eléctricos deberán devolver los equipos usados u obsoletos al fabricante de los mismos para su reciclado, sin coste alguno para el usuario.

**Nota:** *Sírvase ponerse en contacto con el fabricante o proveedor de los equipos para solicitar instrucciones sobre cómo devolver los equipos obsoletos para su correcto reciclado.*

**Documento importante. Guardar junto con los registros de los equipos.**

## DUTCH

Elektrische apparatuur die is voorzien van dit symbool mag na 12 augustus 2005 niet meer worden afgevoerd naar Europese openbare afvalsystemen. Conform Europese lokale en nationale wetgeving (EU-richtlijn 2002/96/EC) dienen gebruikers van elektrische apparaten voortaan hun oude of afgedankte apparatuur kosteloos voor recycling of vernietiging naar de producent terug te brengen.

**Nota:** *Als u apparatuur voor recycling terugbrengt, moet u contact opnemen met de producent of leverancier voor instructies voor het terugbrengen van de afgedankte apparatuur voor een juiste verwerking.*

**Belangrijk document. Bewaar het bij de productpapieren.**

## POLISH

Sprzęt elektryczny oznaczony takim symbolem nie może być likwidowany w europejskich systemach utylizacji po dniu 12 sierpnia 2005. Zgodnie z europejskimi, lokalnymi i państwowymi przepisami prawa (Dyrektywa Unii Europejskiej 2002/96/EC), użytkownicy sprzętu elektrycznego w Europie muszą obecnie przekazywać Producentowi stary sprzęt lub sprzęt po okresie użytkowania do bezpłatnej utylizacji.

**Uwaga:** *Aby przekazać sprzęt do recyklingu, należy zwrócić się do producenta lub dostawcy sprzętu w celu uzyskania instrukcji dotyczących procedur przekazywania do utylizacji sprzętu po okresie użytkowania.*

**Ważny dokument. Zachować z dokumentacją produktu.**

## PORTUGUESE

Qualquer equipamento eléctrico que ostente este símbolo não poderá ser eliminado através dos sistemas públicos europeus de tratamento de resíduos sólidos a partir de 12 de Agosto de 2005. De acordo com as normas locais e europeias (Directiva Europeia 2002/96/EC), os utilizadores europeus de equipamentos eléctricos deverão agora devolver os seus equipamentos velhos ou em fim de vida ao produtor para o respectivo tratamento sem quaisquer custos para o utilizador.

**Nota:** *No que toca à devolução para reciclagem, por favor, contacte o produtor ou fornecedor do equipamento para instruções de devolução de equipamento em fim de vida para a sua correcta eliminação.*

**Documento importante. Mantenha junto dos registos do produto.**