

HOMOGENEIZADOR ANALÓGICO H-1
ANALOGUE HOMOGENISER H-1
HOMOGÉNÉISATEUR ANALOGUE H-1



REF. - CODE - RÉF. - ZHB005



Este manual es parte inseparable del aparato por lo que debe estar disponible a todos los usuarios del equipo. Le recomendamos leer atentamente el presente manual y seguir rigurosamente los procedimientos de uso para obtener las máximas prestaciones y una mayor duración del mismo.

This manual should be available for all users of these equipments. To get the best results and a higher duration of this equipment it is advisable to read carefully this manual and follow the processes of use.

Ce manuel est une partie indissociable de l'appareil et doit être mis à la disposition de tous les utilisateurs de l'équipement. Nous vous recommandons de lire attentivement ce manuel et de suivre scrupuleusement les procédures d'utilisation afin d'obtenir des performances maximales et une plus longue durée de vie de l'appareil.

INDEX OF LANGUAGES

Spanish	2-3
Inglés	4-5
French	6-7

1. DEVICE SUMMARY

The Nahita analogue homogeniser H-1 stands out for its modern and efficient design, which combines high output power with high operating speed and easy handling in the laboratory. Its ultra-fine homogenising head is designed to achieve a high linear speed thanks to the powerful motor, which allows it to generate an intense shear force in the liquid as well as high-frequency mechanical effects. Thanks to the strong centrifugal force, samples are subjected to thousands of shearing, tearing and mixing cycles per minute, ensuring fast and efficient homogenisation.

2. TECHNICAL SPECIFICATIONS

Référence	ZHB005
Model	H-1
Type	Plug-in model
Speed Range	5000-35000 rpm
Speed Adjustment	Stepless speed control, 6-speed equalization
Total Capacity	0.5-250 ml
Included tip	Ø10 mm (for capacity 5-250 ml)*
Tip Material	316 stainless steel
Ambient Temperature/Humidity	5-40°C/ 80% HR
Continuous Working Time	≤ 10 min
Power Supply	220vAC - 50Hz
Power	160 W
Dimensions	Ø 50 x 350 mm
Weight	850 g

*Consult for other optional tips

3. OPERATION

i. APPLICATION

It is mainly used for mixing, emulsifying and homogenising liquids, dispersing liquid and solid powders, as well as for experiments such as crushing and disintegration of tissue cells.

ii. USAGE

- Place the sample in a container suitable for use with the equipment.
- Mount the equipment, switch on the power supply and press the operating button.
- Start with the lowest speed and gradually increase the speed until the user's desired speed is reached.
- When the equipment is operating at maximum speed, it will generate a high axial force and must therefore be positioned at the bottom of the container.
- Maintain a space of at least 2 mm between the paddle and the bottom of the container. It is best to place it slightly above the bottom of the container to prevent air from entering the sample.
- Note: The process with high viscosity liquids may be interrupted or stopped due to high sample resistance, in these cases the sample must be reduced or diluted.

iii. DEVICE USAGE ENVIRONMENT

- For indoor use
- Altitude \leq 2000 m
- The equipment can work in an ambient temperature range of 5-40°C.
- The applicable relative humidity for the operation of the equipment is 80%.
- The presence of vibrations and draughts in the vicinity of the equipment may affect its proper functioning.
- Keep the work area free of ventilation ducts, sources of explosive gas or corrosive gas in the vicinity.
- Maintain a safety distance of 10 cm on all sides of the equipment during operation.

iv. SAFETY NOTES

- It is strictly forbidden to connect or disconnect the power cable with wet hands.
- It is strictly forbidden to connect or disconnect the power supply cable while the equipment is in operation
- It is strictly forbidden to carry out maintenance work when the equipment is in operation.
- It is strictly forbidden to install the equipment on an uneven or vibrating surface.