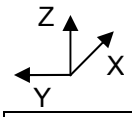
FHE 300

IMFHE300 V.3

TECHNICAL DATA AND FEATURES



Machine	FHE300 Hot air Heaters for frames	
Reference	**A200S**	
Maximum length (X)	315 mm	
Maximum width (Y)	190 mm	
Maximum height (Z)	215 mm	
Machine weight	2.6 kg	
Working temperature	130 - 175 °C+5% -10%	
Power Supply	230-240 V±10%	115 V
Number of phases	2 + ground	
Frequency	50 Hz	60 Hz
Maximum current consumption	6.3 A	12.5 A
Fuses X 2	T 10A L250V	F 16A L250V

AMBIENT CONDITIONS OF OPERATING ENVIRONMENT

Maximum Altitude	2,000 m
Temperature	5 - 40 °C
Relative maximum humidity	80%
Degree of pollution	2

AUTHORIZED USE

ESSILOR FHE300 device is a hot air conveyer designed to soften celluloid frames and frames of similar materials.

⚠ **Any use of the machine other than that for which it was designed and built, as indicated in this handbook, will be regarded as "PROHIBITED USE".**

The manufacturer is not thereby liable for any damage caused to any persons or the machine.

⚠ The device described below is not designed for use in explosive atmospheres or in the presence of flammable vapours or liquids. Consequently it is prohibited to install it and use it in such environments.

RESIDUAL DANGERS AND RISKS

During operation, the hot air conveyor generates heat and can cause a risk of **burns**.

Warning labels are fitted on the machine. The user is responsible for periodically checking their integrity and, if necessary, for replacing the damaged labels with identical ones, by contacting the manufacturer's Help Desk.

INFORMATION FOR THE RECIPIENT

To ensure operator safety and to avoid any damage to the machine, before carrying out any operation on this device, it is essential to have read and fully understood this instruction manual in its entirety.

PACKAGING

The packaging provided contains:

- The main body of the device
- Power supply
- Instructions for use and maintenance manual
- Heat Concentrator

By its very nature, the device can be moved manually without using any lifting equipment.

Whilst the packaged machine remains idle prior to being used, it is recommended that it be stored in a place where it will be safe from atmospheric agents.

UNPACKING

After having unpacked the machine, check that there are no signs of any damage. If there are, contact the Help desk.

The recipient is responsible for the disposal of the packaging materials which should be done in accordance with the current standards in the country where the machine is to be used.

RESPONSIBILITIES OF THE CUSTOMER

The user must install the device in appropriate premises duly equipped with an electrical installation complying with the current standards.

The plug socket to which the device is connected must remain accessible.

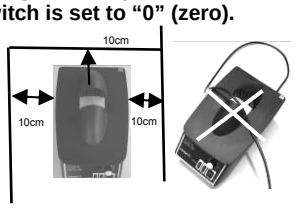
It is recommended that the device be installed in areas which are well ventilated, dry and lit in accordance with current legislation.

Ref. man FHE300	Rev. 11/2014

INSTRUCTIONS FOR THE USER

CONNECTION AND OPERATION

⚠ **Before connecting the device, check that the line voltage corresponds to that indicated on the label on the machine and that the main switch is set to "0" (zero).**



Place the device on a completely flat surface in order to ensure maximum stability and take care to leave a free space of at least 10 cm either side and behind. After checking that the main switch is set to "0" (zero), connect the power cable by first of all attaching the end which connects to the body of the machine and then the end with the plug.Make sure that the cable is away from the working area as this can reach dangerously high temperatures.

OPERATION

Is done by turning the main switch which lights up to indicate that the device has power

STOP MODES AND EMERGENCY STOP

The normal stop function of the device is achieved by setting the main switch to "0" (zero).

The emergency stop function is achieved by disconnecting the power supply from the plug socket.

⚠ **After an emergency stop or a stop due to an anomaly or a power cut, always set the main switch to "0" (zero).**

EXAMPLES OF WORK

- Set the device to cool or heat using the switch. (2)
- Select the temperature level using the switch**(2)**
- Start the machine by pressing the main switch**(1)**
- After 1.5 minutes, the machine is ready for use
- Place the part of frame to be softened between the heat conveyors**(5)**
- Mold the part according to requirements; if necessary the temperature can be adjusted using the control (**4)**

⚠ **Be careful not to introduce any thread-like objects (e.g., arms of the glasses) into the grills (6) to avoid risking contact with live parts.**

⚠ To warm up a small surface on the frame (bridge, spectacle…) please use the heat conveyor**.** Once the step is done, this accessory must be removed as this can provoke an overheating inside the machine.

MAINTENANCE

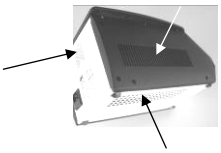
Any modification affecting the operation or the safety of the machine must be carried out by the manufacturer's technicians or manufacturer approved technicians. Otherwise, ESSILOR will not accept any liability for any alterations or damage which could ensue.

In the event of the machine being used incorrectly, or as a result of damage through operations not listed in the manual, Essilor will not accept any liability.

⚠ **Any servicing and special maintenance operations must be carried out with the device switched off and the power supply removed by disconnecting the power cable.**

GENERAL MAINTENANCE

The device does not require maintenance, provided that it is not moved out of the well-ventilated clean area.



SPECIAL MAINTENANCE

Special maintenance operations are carried out in the event of the device stopping following a breakdown of mechanical or electrical parts.

⚠ **For safety reasons, the end-user is not authorised to carry out special maintenance operations. In this instance please contact ESSILOR or an approved Help Desk.**

INSTRUCTIONS FOR SERVICE REQUESTS AND SPARE PARTS

In any communication with our Help desk always state the type of machine, the registration number and the year of manufacture stated on the label which identifies each machine and, where possible, specify the nature of the problem or the defect presented by the machine.

In order to ensure optimum operation of the device, any replacement parts must be original spare parts and of the same design and materials.

CLEANING THE MACHINE

Use a damp cloth and a gentle detergent.

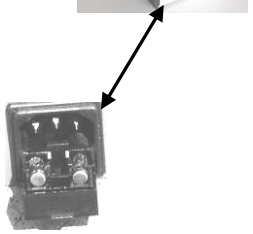
⚠ **Before carrying out this operation, make sure that the device is switched off by disconnecting the power cable.**

⚠ **Infiltration of liquids can damage the electrical parts of the device.**

TROUBLE SHOOTING

Problem:	The machine is not heating or does not blow hot air

Possible cause	**ACTION**
Spent fuse	Replace the existing fuse inside the plug(*)
Resistance and/or broken motor	Contact the Help desk



(*)To check the fuse, turn the main switch to "0" (zero), disconnect the power cable and open **the case.**
Remove the fuse and check the integrity of the wiring inside

DISMANTLING THE MACHINE AT THE END OF ITS LIFE

The symbol of a dustbin with a line through it indicates that the device should be disposed of separately to general waste. The recycling of the device at the end of its life must be planned and managed by the manufacturer. The user wishing to dispose of the device should contact the manufacturer and follow their recycling procedures.
Complying with the planned recycling procedures for the device helps to avoid possible negative effects on the environment and health, and promotes the re-use and/or recycling of the component parts of the device.
Incorrect disposal of the device by its owner may result in penalties, in line with the current standards in the country of use of the device.

Ref. man FHE300	Rev. 11/2014

REFERENCING GUIDELINES AND APPLIED STANDARDS CE

Mandatory directives

Reference	Part
Directive the UE n°2014/35/UE	Low voltage(DBT)
Directive the UE n°**2014/30/UE**	Electromagnetic compatibility (EMC)
Directive the UE n°**2011/65/UE**	Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

Voluntary standards

Reference	Part
EN ISO 12100 (2010)	Safety of the equipment– fundamental Concepts - general Principles of design Part 1– basic Terminology/methodology Part 2 - Technical principles
EN 61010-1(2010)	Safety requirements for electrical equipment for measurement, control and laboratory use
EN 61326-1(2013)	Electrical equipment for measurement, control and laboratory use. EMC requirements.

Essilor Instruments USA
8600 W. Catalpa Avenue, Suite 703
Chicago, IL 60656
Phone: 855.393.4647
Email: info@essilorinstrumentsusa.com
www.essilorinstrumentsusa.com