

50/60 Hz

ILFORD
OPERATING MANUAL

ILFOLAB
1250 RC

VARIABLE SPEED PRINT DRYER
FOR HIGH QUALITY
BLACK AND WHITE PRINT DRYING



IL882



SAFETY PRECAUTIONS

Your photographic equipment is powered by mains electricity, and is designed to comply with international electrical safety standards. However, basic safety precautions must always be followed when operating electrical equipment, including the following, where applicable:

- 1 Read and understand all instructions and equipment labels.
- 2 Close supervision is necessary when the equipment is being used by inexperienced personnel.
- 3 Take care to avoid burns. Some internal parts of the equipment can become very hot with continuous use.
- 4 Do not operate equipment that has been dropped or damaged, or has damaged electrical leads. Have the equipment examined by qualified personnel.
- 5 Do not allow any electrical lead to touch hot surfaces.
- 6 Ensure the leads are arranged such that they cannot be pulled or tripped over.
- 7 Ensure extension leads are of a suitable current rating to prevent the lead overheating.
- 8 Always unplug or isolate the equipment when it is not in use. Never pull plugs out by holding the lead.
- 9 For equipment connected to the electrical mains supply by a plug and socket arrangement, ensure the socket is installed near to the equipment and is easily accessible at all times.
- 10 Do not touch electrical components with wet or damp hands.
- 11 Ensure the air flow through the vents is not obstructed when equipment is switched on.
- 12 Do not dismantle the equipment unless you are qualified to do so. Incorrect assembly can cause hazards both to yourself and to the equipment.
- 13 All equipment, no matter how well made, can break down and, therefore, must not be left unattended for long periods of time while it is switched on.
- 14 Always unplug or isolate the equipment before connecting or disconnecting any plugs supplying electrical power to or from the equipment.
- 15 Always obey local codes of practice, particularly for installation requirements.

Do not destroy these instructions

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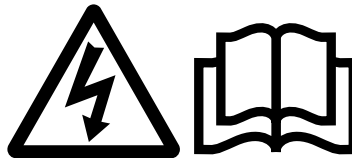
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PICTOGRAMS

The following pictograms are used on labels fixed to the dryer.
Please ensure you understand their meaning.



Caution moving rollers



Electrical hazard - refer to manual

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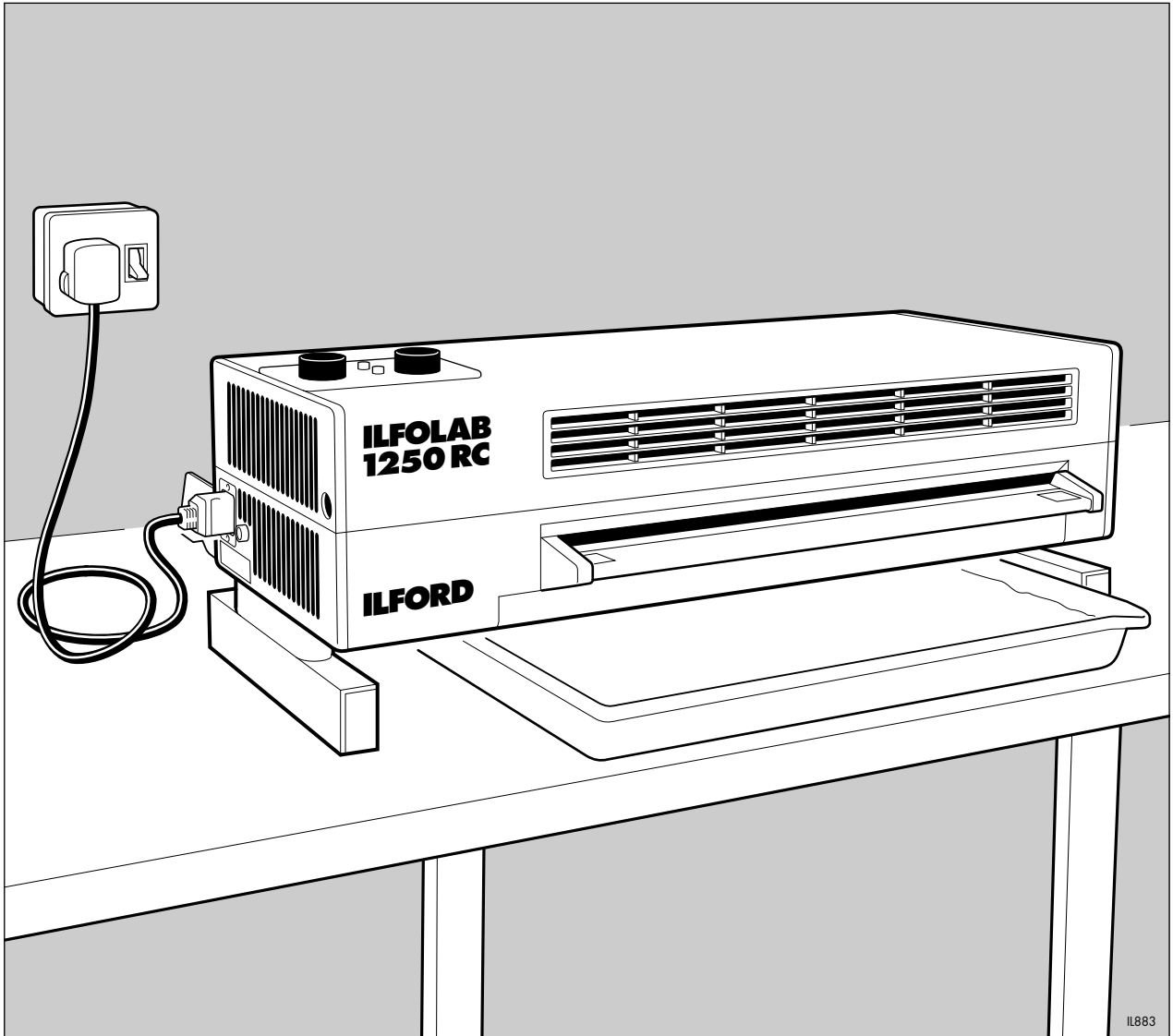


Figure 1.1 ILFOLAB 1250RC dryer - typical installation

INTRODUCTION

See figure 1.1.

The ILFOLAB 1250RC variable speed dryer is designed to dry ILFORD black and white resin coated papers to a very high standard. The dryer will dry up to 380 20·3x25·4cm (8x10 inches) prints per hour, and has a maximum feed width of 50·8cm (20 inches).

For uniform drying and greater efficiency, prints are dried by infra-red, fan assisted heaters. The print transport speed is variable for precise control of a wide range of drying conditions and materials.

This manual gives full instructions for installing and operating the ILFOLAB 1250RC dryer. For ease of description, it is assumed the left and right hand sides of the dryer are determined when facing the dryer at the paper feed (front) end.

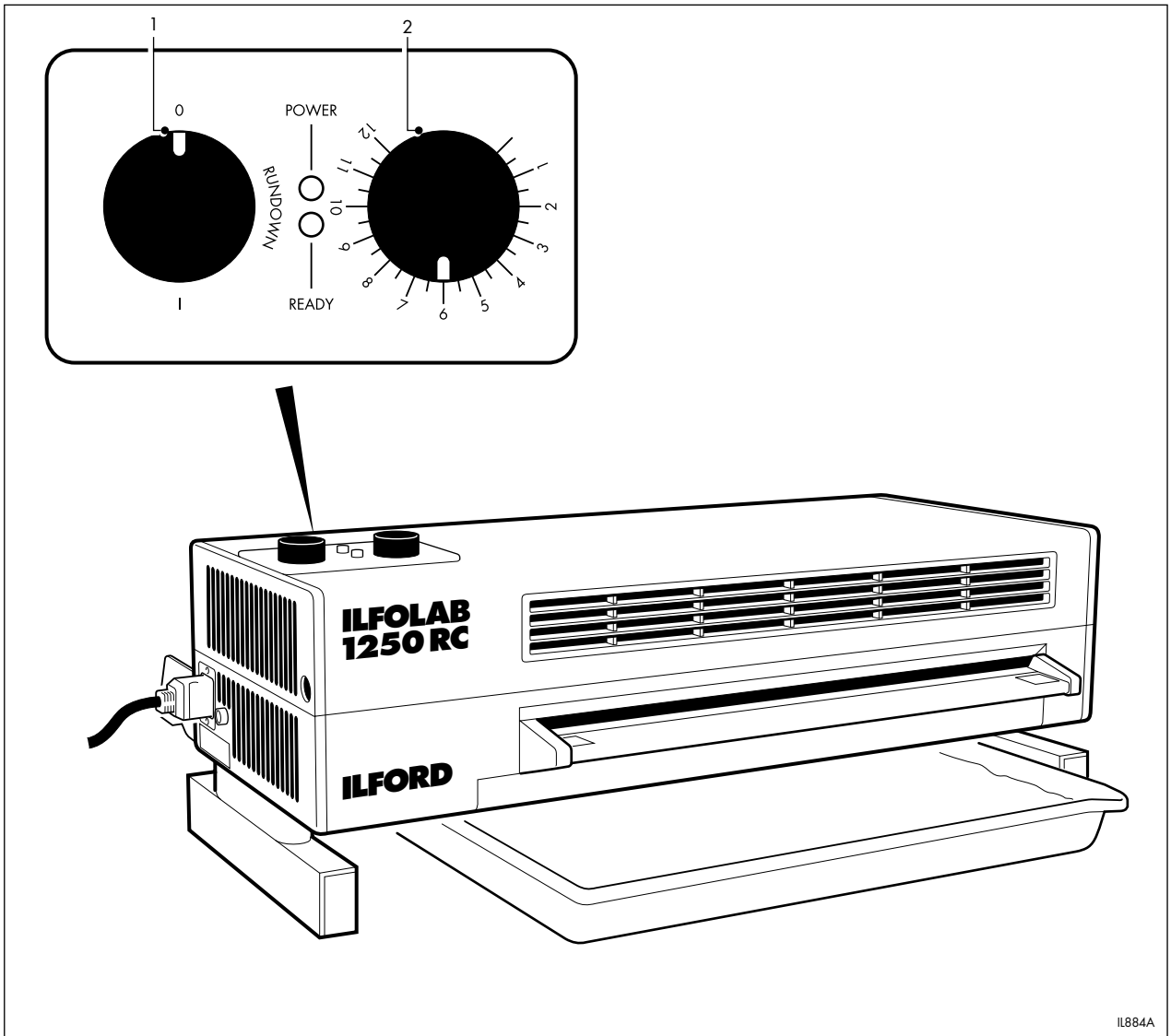


Figure 2.1

Controls and indicators

CONTROLS AND INDICATORS

Figure 2.1

- 1 Dryer control
- 2 Speed control

See figure 2.1.

2.1 'POWER' LIGHT

The red 'POWER' light illuminates when the dryer control is selected to 'I' or 'RUNDOWN'.

2.2 'READY' LIGHT

The orange 'READY' light indicates that the machine has warmed up and is ready for use.

2.3 DRYER CONTROL

The dryer control has three positions:

Position 'O'

The dryer is switched off.

Position 'RUNDOWN'

In this position the power supply to the heaters is switched off, but the fans and main drive continue to run. After a pre-set time (factory set), the fans and main drive are switched off automatically.

Note

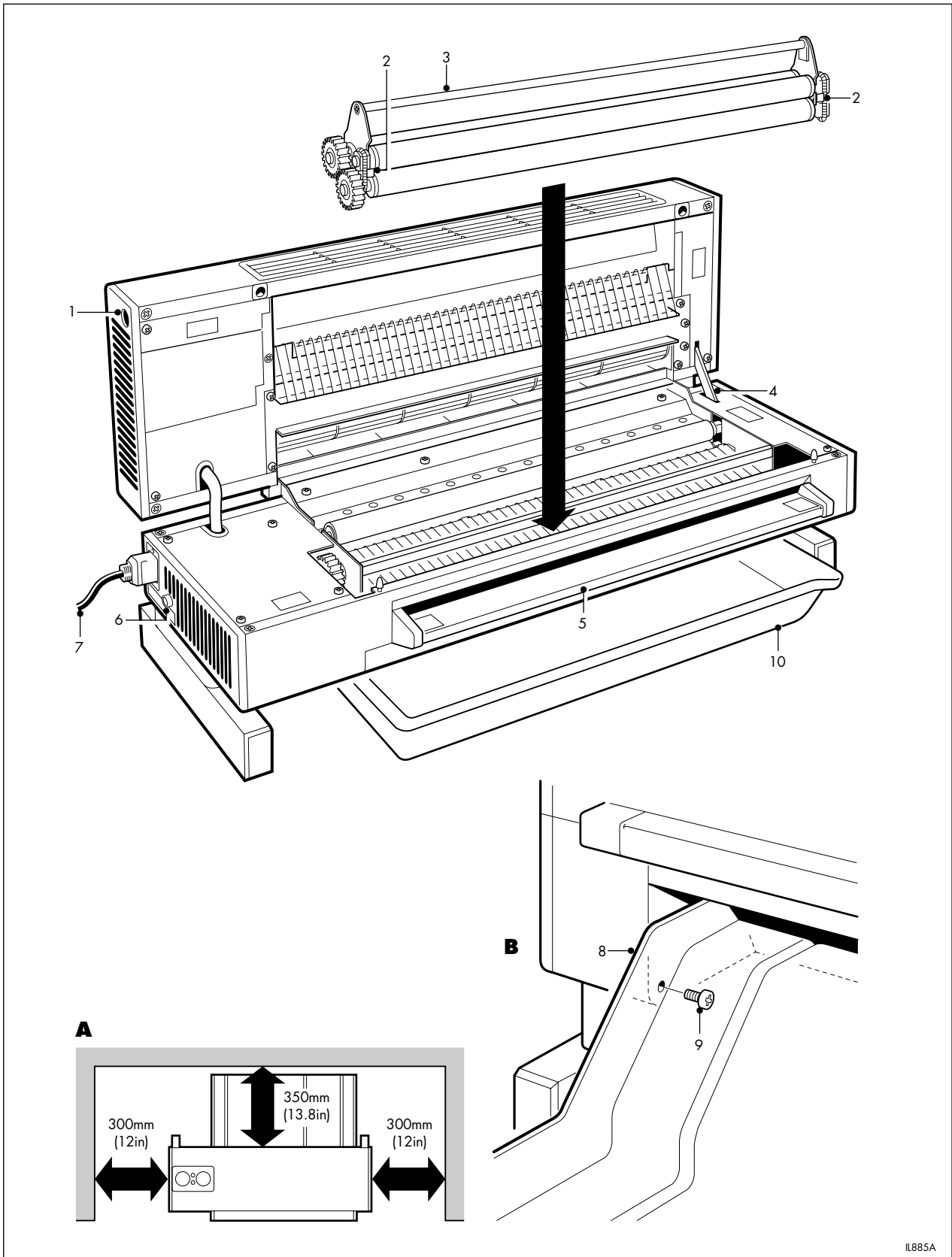
It is recommended that this position is used before switching the dryer off at the end of the day. Select this position to remove moist air from the dryer and to prevent excessive heat retention in the rollers.

Position 'I'

For drying sheets. See section 8 for speed range.

2.4 SPEED CONTROL

The speed control adjusts the time taken for sheets to pass through the dryer and, therefore, the rate of drying. The speed control operates when the dryer control is selected to 'I' and is adjustable over the range minimum setting (slowest) to maximum setting (quickest).



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Figure 3.1

Installation

3

INSTALLATION

Figure 3.1

- 1 Release button
- 2 Yellow transit wedges
- 3 Four-roller assembly
- 4 Restraining arm
- 5 Feed tray
- 6 Mains fuse
- 7 Electricity supply lead
- 8 Print receive tray
- 9 Pan head screw
- 10 Wet-print dish

See figure 3.1.

3.1 PRINT RECEIVE TRAY

Secure the tray with the screws supplied, as shown in detail **B**.

3.2 LOCATION

Position the dryer on a firm bench or table at a convenient working height. The dimensions shown in detail **A** are minimum requirements to allow for adequate air circulation and for the print receive tray. Position the wet-print dish under the dryer.

3.3 ELECTRICITY SUPPLY

Connect the lead supplied to the dryer mains input plug and to a standard wall socket. The lead fits one way only.

3.4 REMOVING YELLOW TRANSIT WEDGES

See figures 3.1 and 3.2.

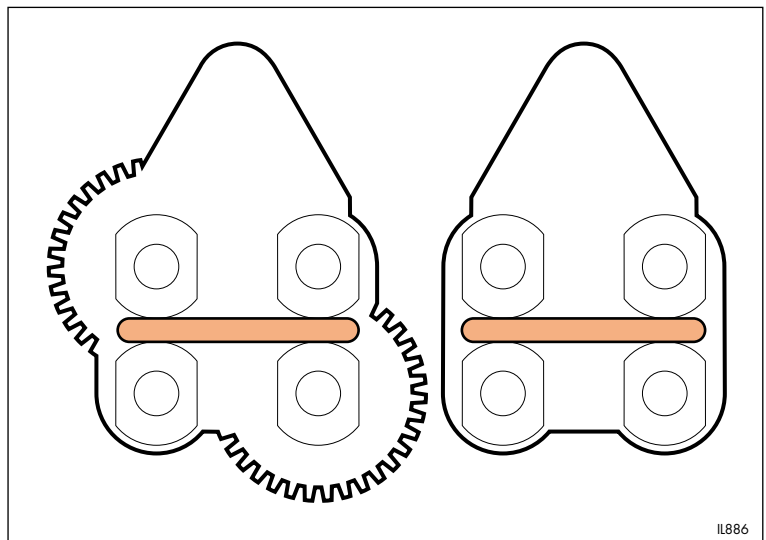


Figure 3.2

Location of transit wedges



CAUTION

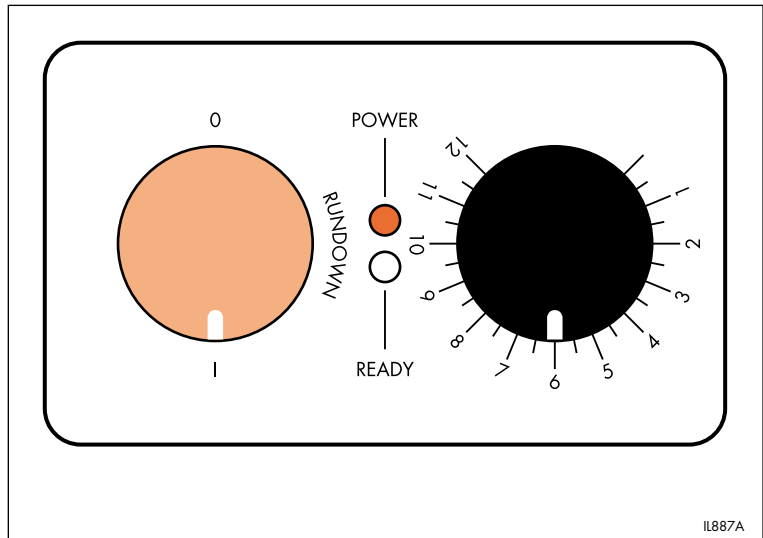
To enable the dryer to operate correctly, it is important to remove the two yellow transit wedges prior to use.

- 1 Press the release button on the left hand side of the dryer and open the dryer until the lid is held by the restraining arm.
- 2 Lift the four-roller assembly away.
- 3 Remove the two transit wedges from between the roller bearings.
- 4 Re-assemble the dryer and close the lid.

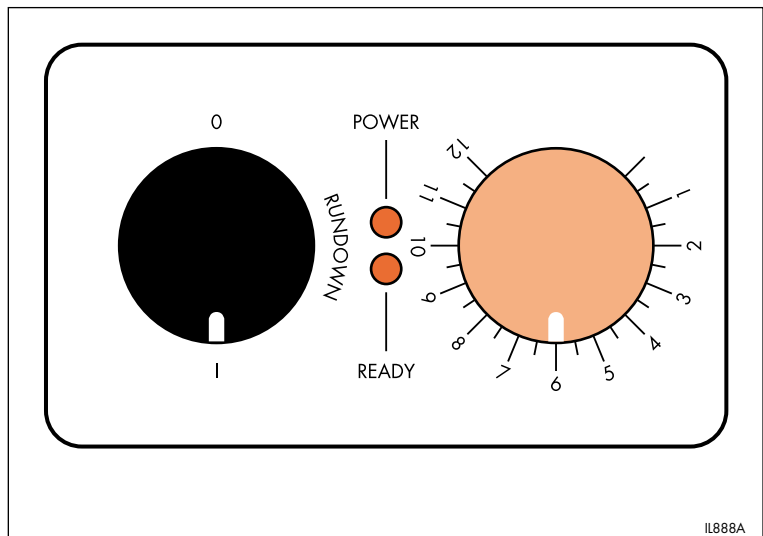
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DRYING PRINTS

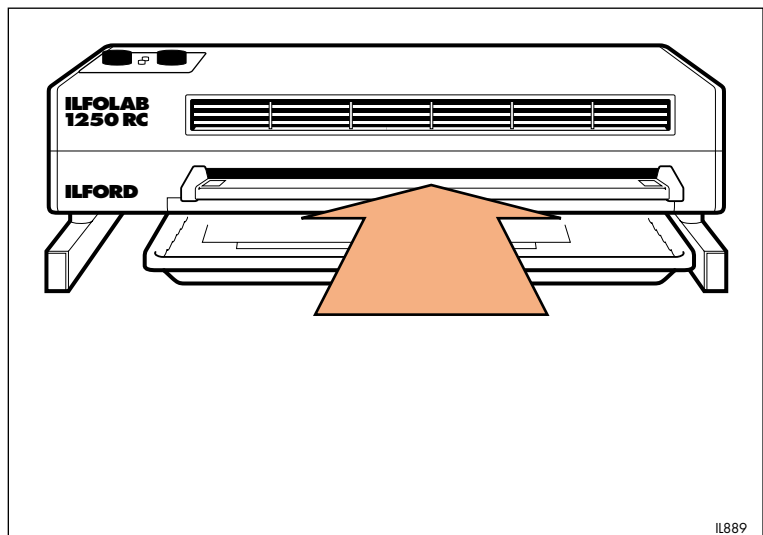
- 1 Fill the wet-print dish with enough cold water to cover the washed prints. Switch the electrical supply on. Turn the dryer control to '1'. The red 'POWER' light illuminates.



- 2 Allow about 1½ minutes for the orange 'READY' light to switch on. During this time, transfer the washed prints to the wet-print dish. As a guide, set the speed control to position 6 to dry resin coated paper sheets.



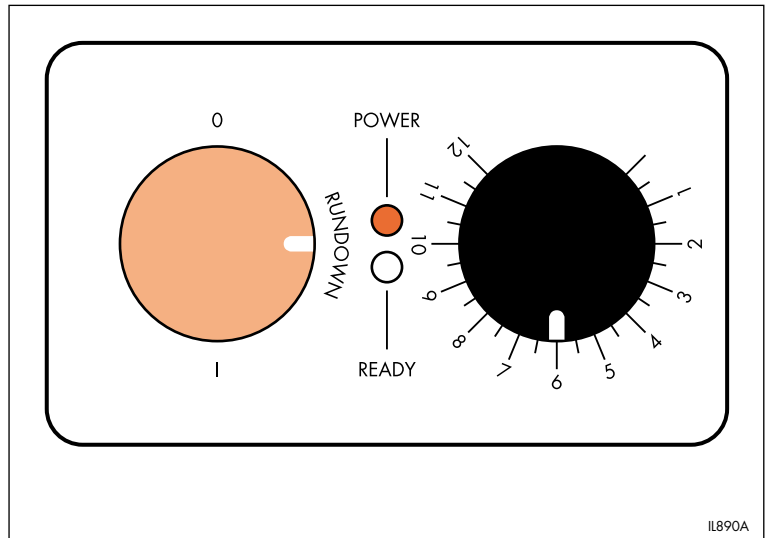
- 3 Feed prints emulsion side up. Ensure prints are fed squarely. Feed small prints with the short edge leading. Do not overlap one print with another - allow 2 seconds between the trailing edge of one print and the leading edge of the next.



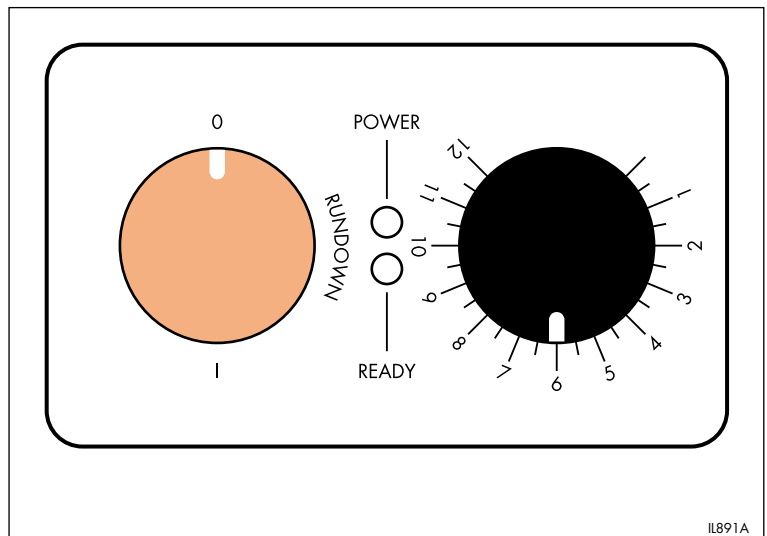
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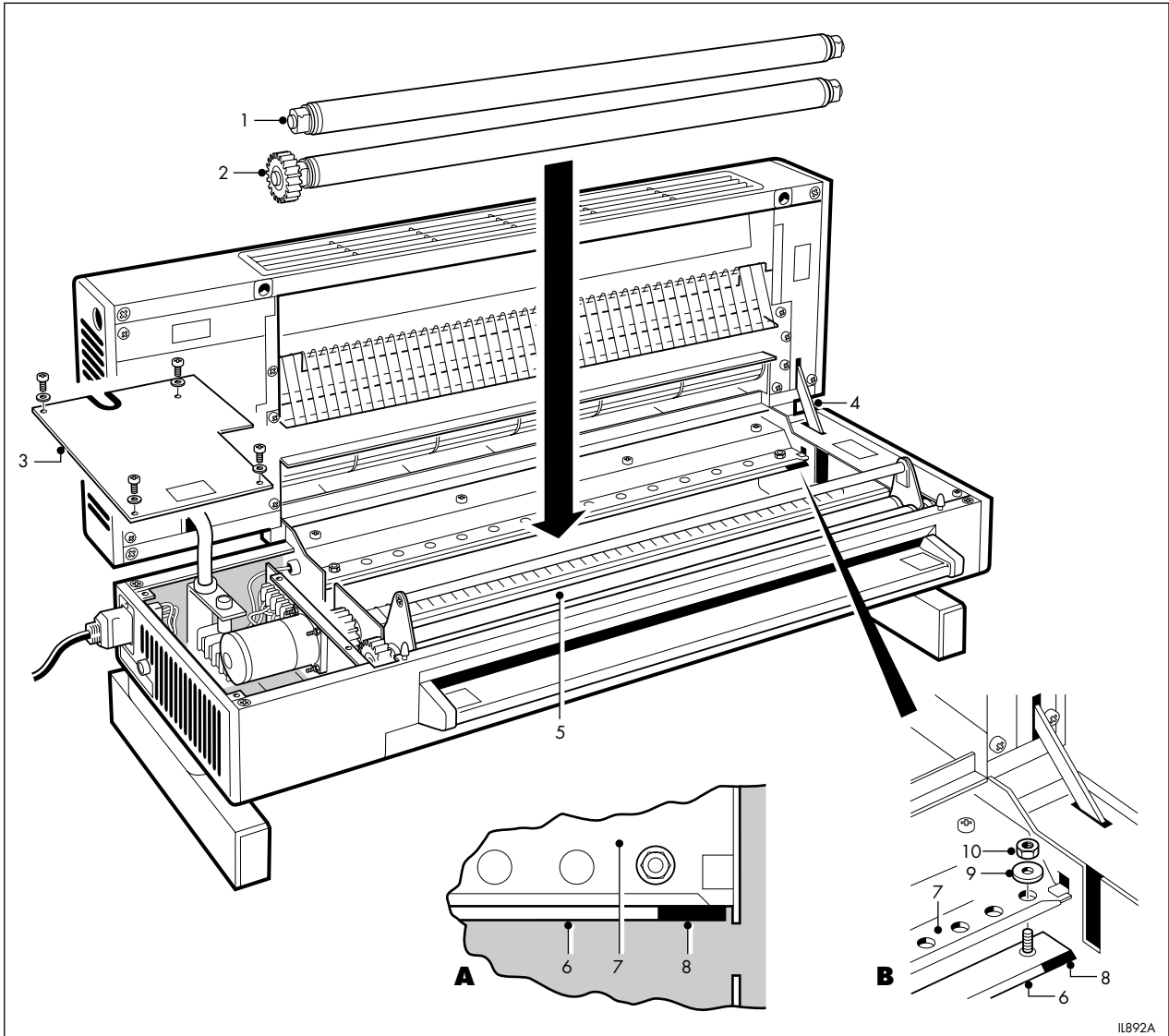
SWITCHING OFF

- 1 Turn the dryer control to 'RUNDOWN'. If the dryer is to be used again later the same day, the control can be left in this position.



- 2 To switch the dryer off completely, carry out operation 1 and wait for the fans and main drive to stop. Then turn the dryer control to '0'. Switch the electrical supply off.





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Figure 6.1 Adjusting print exit guide

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CLEANING AND SIMPLE REPAIRS

Figure 6.1

- 1 Upper roller, rear
- 2 Lower roller, rear
- 3 Lower cover
- 4 Restraining arm
- 5 Front roller assembly
- 6 Print exit guide
- 7 Ventilation grille
- 8 Alignment mark
- 9 Washer
- 10 Nut

See figure 6.1.

Cleaning is the only regular maintenance required on the ILFOLAB 1250RC dryer. Regular cleaning will ensure correct operation and consistently high drying quality.



CAUTION

During the following procedures, do not allow water to enter areas of the dryer containing electrical components. Please refer to the Safety Precautions at the front of this manual.

6.1 DAILY ROUTINE

- 1 Change the water in the wet-print dish daily or more frequently if necessary.
- 2 Wipe the outside of the dryer with a damp cloth.

6.2 CLEANING THE FRONT ROLLER ASSEMBLY

See figure 3.1.



CAUTION

When cleaning the roller assembly, always take extreme care not to damage the roller surfaces. Damaged roller surfaces will cause marks on subsequent prints.

If the four-roller assembly at the front of the dryer becomes contaminated, remove and clean it as follows:

- 1 Switch the electrical supply off.
- 2 Press the release button and open the dryer until the lid is held securely by the restraining arm.
- 3 Lift the four-roller assembly away.
- 4 Thoroughly clean the rack with a soft lint free cloth and warm water. More stubborn deposits on metal and plastic surfaces can be removed using a soft bristle brush and warm water.



CAUTION

To prevent a reduction in the quality of drying, particularly on glossy surfaces, do not use soap solutions or other cleaning agents on the rollers.

- 5 Refit the four-roller assembly and close the dryer.

6.3 REPLACING A MAINS FUSE

See figure 6.2.

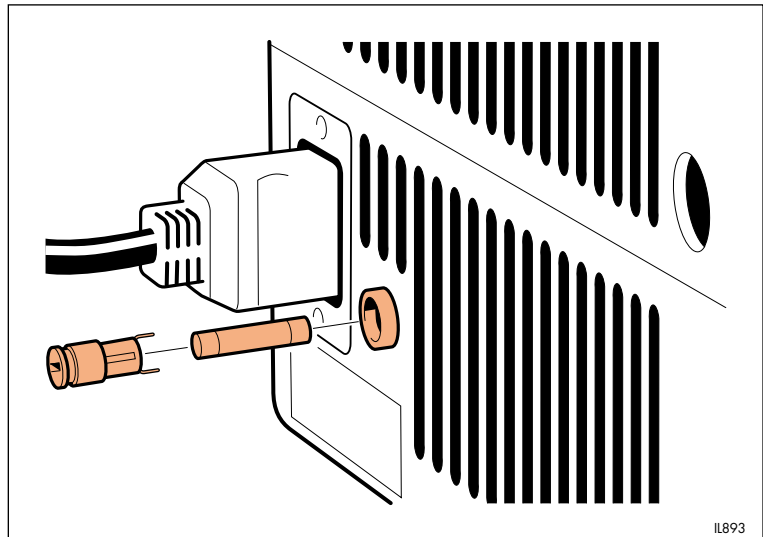


Figure 6.2

Replacing a mains fuse

The mains fuse is located to the right of the dryer mains input plug.

- 1 Switch the electrical supply off.
- 2 Remove the fuse by turning the fuseholder anti-clockwise with a screwdriver.
- 3 Replace the fuse with one of the correct value (see section 8).
- 4 Refit the fuse by turning the fuseholder clockwise with a screwdriver.

6.4 REPLACING A ROLLER TENSION SPRING

See figure 6.3.

Roller tension springs are fitted on the four-roller assembly only. Springs are fitted to both ends of the roller pairs, as shown.

- 1 Switch the electrical supply off.
- 2 Press the release button and open the dryer until the lid is held securely by the restraining arm.
- 3 Lift the four-roller assembly away.

Figure 6.3

- 1 Gear
- 2 Locating plate
- 3 Spring

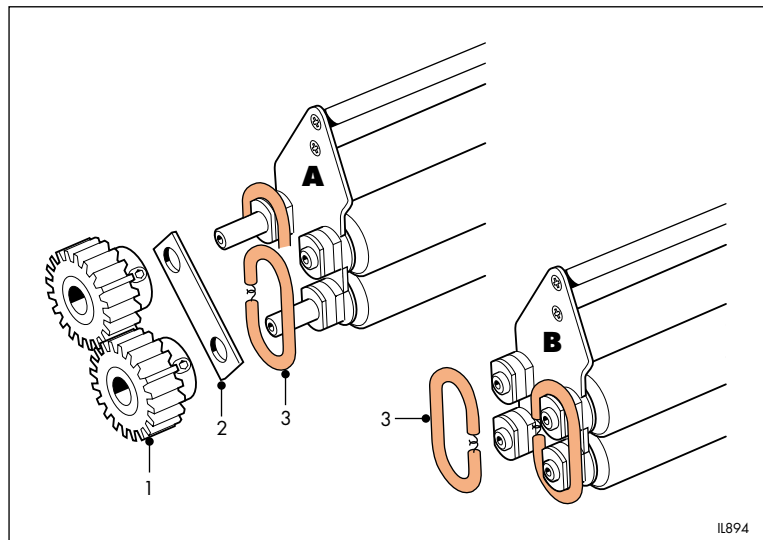


Figure 6.3 Replacing a roller tension spring

- 4 To remove a tension spring left hand side, release the socket set screws and remove the gears and locating plate, as shown on Detail **A**.
- 5 Unhook and remove the spring from the end of the roller pair.
- 6 Fit a new spring around the roller bearings, as shown.
- 7 Refit the locating plate and gear. Secure each gear by tightening the socket set screw against the flat on the roller shaft.
- 8 To remove a tension spring right hand side as shown on Detail **B**, carry out operations 5 and 6.
- 9 Refit the roller assembly and close the dryer.

6.5 REMOVING REAR ROLLERS/ADJUSTING PRINT EXIT GUIDE

See figure 6.1.

The gap between the print exit guide and the rear upper roller is critical to ensure correct paper transport through the dryer. Initially, this gap is factory set. Under normal operating conditions, the print exit guide must not be moved.

If, for any reason, the rear lower roller needs to be removed, the print exit guide must first be moved to clear the way for the roller. This means that, when the rollers are replaced, the gap must be reset as accurately as possible. To help with this operation, the print exit guide has an alignment mark at each end as shown in detail **A**.

To remove the rear rollers, proceed as follows:



CAUTION

This operation requires access to the electrical compartment. Please refer to the Safety Precautions at the front of this manual.

- 1 Switch the electrical supply off.
- 2 Press the release button and open the dryer until the lid is held securely by the restraining arm.
- 3 Release the four screws and remove the lower cover.
- 4 Carefully remove the upper roller, complete with bearings.

Carry out the following operations only if the lower roller is to be removed.

- 5 Slacken the four nuts securing the print exit guide to the ventilation grille as shown in detail **B** and push the exit guide towards the rear of the dryer.
- 6 Carefully lift the lower roller, complete with bearings and roller drive gear, away.

To replace the rear rollers, proceed as follows:

Note

Carry out operations 1, 2, 3, 7 and 8 only if the lower roller is being replaced.

- 1 Ensure the print exit guide is pushed towards the rear of the dryer and is not obstructing the lower roller.
- 2 Replace the lower roller, complete with bearings. Ensure the roller drive gear meshes with the idler gear.
- 3 Replace the upper roller, complete with bearings.
- 4 Carefully move the print exit guide towards the front of the dryer until the rear edge of the mark at each end of the guide is aligned with the front edge of the ventilation grille. Tighten the nuts securing the guide to the ventilation grille. Check the alignment is correct as shown in detail **A**.
- 5 Refit the lower cover. Secure the cover with the four screws and washers.
- 6 Close the dryer.

-
- 7 Switch the electrical supply on.
 - 8 When the dryer is ready, feed a number of wet sheets through, ensuring they exit the dryer without obstruction. If the sheets do not exit correctly, switch the electrical supply off and check the alignment of the print exit guide. Re-adjust the guide if necessary.

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FAULT FINDING

This section provides a list of checks to make should there be any problems with the dryer. If the problem persists, contact your nearest ILFORD Selling Company at the address shown on the back cover of this manual.



CAUTION

If in doubt about making any of the checks consult a competent engineer. Any further repair work carried out by unqualified personnel could cause a hazard both to yourself and to the equipment, and may invalidate any guarantees applicable to the equipment.

Note

An interlock switches off the fan motor, drive motor and heaters if the dryer lid is raised.

Symptom	Possible cause	Remedy
1 Scratches on prints	Sheet fed upside down	Feed sheets emulsion side up
	Prints pulled from the exit rollers	Leave prints to emerge fully from the dryer before handling them
	Dirty paper guides	Remove roller assemblies and inspect guides. See figure 3.1. Clean guides as necessary
	Dirty feed tray	Clean feed tray. See figure 3.1
	Paper guides bent	Contact your local ILFORD Selling Company
2 Wet or damp prints	Dryer speed too high	Adjust speed control to a slower setting
	Faulty heater element	Contact your local ILFORD Selling Company
	Rollers operating incorrectly	Replace any damaged or missing roller tension springs. See section 6.4. Clean rollers. See section 6.2. Ensure the yellow transit wedges have been removed. See section 3.4

Symptom	Possible cause	Remedy
3 Imperfect gloss on glossy prints	Dryer speed too high	Adjust speed control to a slower setting
	Prints not fully wetted before drying	Ensure prints are completely immersed in the wet-print dish before drying
4 Excessive curl on prints	Dryer speed too low	Adjust speed control to a faster setting
	Dryer fan impeded	Remove any obstruction from dryer air grille. Observe installation procedure. See section 3.2
5 Surface blistering on print	Dryer speed too low	Adjust speed control to a faster setting
6 Glossy patches on matt or pearl surfaces	Dryer speed too low	Adjust speed control to a faster setting
7 Dull patches on surfaces of dried prints	Dirty front roller assembly	Clean front roller assembly. See section 6.2
8 Dryer heaters and/or fan fail to operate	Dryer not switched on or plugged in	Connect dryer to electrical supply. Turn dryer control to 'I'
	Dryer control set to 'RUNDOWN'	Turn dryer control to 'I'
	Dryer lid not closed correctly	Ensure lid is closed and locked
	Dryer mains fuse blown	Replace mains fuse. See section 6.3
	Faulty heater element	Contact your local ILFORD Selling Company

Symptom	Possible cause	Remedy
9 Print fails to emerge	Paper sheet too small	Switch dryer off. Retrieve sheet. Sheets must be at least 5 inches (12.7cm) long
	Damaged sheet	Switch dryer off. Retrieve sheet
	Rollers operating incorrectly	Switch dryer off. Retrieve sheet. See symptom 2
	Paper guides bent	Switch dryer off. Retrieve sheet. Contact your local ILFORD Selling Company
	Exit guide misaligned	Check alignment of exit guide. Adjust if necessary. See section 6.5

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SPECIFICATION

Dryer speed range	PERFORMANCE DATA Control switch selected to '1' Minimum speed setting : 17.5cm/min (7 inches/min) Maximum speed setting : 126cm/min (49.6 inches/min)
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Maximum output	380 20.3x25.4cm (8x10 inches) prints per hour at speed setting 12 and the control switch selected to '1'
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Warm up time	70 seconds
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Access time	Typically 25 seconds for a 20.3x25.4cm (8x10 inches) print with the speed setting at position 6 and the control switch selected to '1'
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Maximum width	PRINT SIZES ACCEPTED 50.8cm (20 inches)
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Minimum length	12.7cm (5 inches)
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Height	DRYER DIMENSIONS 273mm (10.9 inches)
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Width	755mm (29.7 inches)
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Length	615mm (24.2 inches) including print receive tray
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Dryer	WEIGHT 20kg (44lbs)
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Voltage	ELECTRICAL	
Frequency	120V	230V
Phase	60Hz	50Hz
Maximum current	Single	Single
Power consumption	9A	4.25A
Fuse value	1100W	1000W
Fuse type	12A	6A
Heaters	Fast blow	Fast blow
	2x450W	2x450W

ILFORD

DECLARATION OF CONFORMITY

ILFORD IMAGING UK LIMITED · MOBBERLEY · KNUTSFORD · CHESHIRE WA16 7JL



ILFORD DECLARE UNDER OUR SOLE RESPONSIBILITY THAT PRODUCT

ILFOLAB 1250RC dryer

NAME · TYPE OR MODEL

TO WHICH THIS DECLARATION RELATES
IS IN CONFORMITY WITH THE FOLLOWING SPECIFICATIONS

SPECIFICATION	NUMBER	EC DIRECTIVE
Electromagnetic compatibility - emissions	EN50081-1:1990	89/336/EEC
Electromagnetic compatibility - immunity	EN50082-1:1990	89/336/EEC
Safety of information technology equipment including electrical business equipment	EN60950:1988	73/23/EEC

CATEGORY

Domestic, commercial and light industry

NAME OF AUTHORISED OFFICER

Mr M.G.Hammond

POSITION OF AUTHORISED OFFICER

Manager - Customer Equipment Department

SIGNATURE OF AUTHORISED OFFICER

DATE

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Web
www.ILFORD.com

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