HEDSON

— PERFORMANCE ABOVE ALL —

EN	Instruction Manual (original language)
DE	Betriebsanleitung
FR	Mode d'emploi
SE	Bruksanvisning
IT	Manuale d'uso
ES	Manual de funcionamiento

IRT AutoSpot

IRT SYSTEM

HEDSON

IRT
SYSTEM | *H HEDSON*

TABLE OF CONTENTS - original language   EN

1. Safety instructions

The mobile dryer must not be exposed to paint fog, sanding dust or solvents, due to fire risk. Furthermore, this will reduce the lifetime of the dryer. Allow for sufficient cooling time of the dryer. The distance to the object to be dried must be sufficient. Otherwise there is risk for fire or explosion! Keep all flammable materials in a sufficient distance from the hot surfaces of the dryer.

1.1 Hazards

Tilting
The risk for tilting increases when the arm is located in an upright position.

Fire and explosion.
Do not store, prepare or use solvent-containing materials within a 5 m/16 feet radius of the mobile dryer. Flammable materials should not be placed close to a drying device in use.

If you have a distance less than 60 cm/2 feet to the object the temperature might raise quickly and the risk for fire increases. Never direct the cassette towards highly combustible materials.

Electrical equipment
The mobile dryer is operated with high electrical voltage, which can be highly dangerous.

Before accessing live parts, remove the main connector from the wall socket. Only professional electricians may have direct access to the electrical components.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

⚠ **WARNING !**
Intensive heat radiation. Hands, face and other parts of the body should be exposed as little as possible to the heat radiation.

2. Intended use of the product

The IRT AutoSpot infrared dryer can be used either on stand with control unit or handheld. This product serves exclusively to accelerate the drying/curing of putty, filler, base and clear coats. This applies to both water-borne and solvent-based products. Its site of use is the preparation area and finishing area. Within the aeronautical and automotive industry and vehicle repair sectors, it is used to cure small areas before polishing. The product must not be used for other purposes than the described drying processes. The maximum ambient temperature during operation should not exceed 40°C. The IRT dryer must not be used in spray booths or within a distance of 5 m from spraying activities in order to avoid explosion risk.

3. Product description

The dryer is an essential aid for paint repair on small and medium sized areas.

The easily manoeuvrable IRT AutoSpot is equipped with one compact cassette. The cassette is equipped with two infrared (IR) lamps with gold plated FreeForm reflectors and a ventilator. The design makes positioning of the cassette simple. The IR lamps are easily exchangeable and the reflectors are protected against mechanical damage by a mesh. The dryer has a selection of sophisticated programs.

3.1 Particular advantages

3.1.1 Higher quality

Using the dryer when you cure putty also improves the quality of the top coat.

The shortwave IR curing enables the coating to be cured from the inside outwards. This prevents solvents to be trapped inside the coating and ensures a fast and high quality curing.

3.1.2 Short drying times

60 cm distance

MATERIAL	MINUTES
Putty	5-6
Filler Bright	10-15
Filler Dark	10-15
Water base	4-6
Base coat	4-8
Top coat	10-15
Clear coat	10-15
Filler on plastics	10-15
Top coat on plastics	13-17
Clear coat on plastics	13-17
Final boost	2-4
Soft cure	13-17

3.1.3 Regulated temperature

The dryer has a pyrometer which carefully controls temperature of the object. The computer does not only measure the maximum allowed temperature but also the temperature raise. It ensures that the programmed drying/curing temperature is maintained, thereby achieving optimum curing, without risk for "over burning".

3.1.4 Hi-tech shape of reflectors with short wave IR

By using shortwave technology and gold coated reflectors with a hi-tech shape important advantages are achieved. Firstly, by radiating only the needed areas and not heating any air, a lower energy consumption is achieved. Secondly, a more uniform surface temperature is obtained by distributing the energy evenly. Thirdly, a larger drying surface is achieved. Fourthly, less radiation outside the curing area.

3.2 Technical data

All dryers emit shortwave IR-radiation with a peak at 1120 nm.

Voltage	220–240 V 1Ph/PE
Frequency	50–60 Hz
Current	9 A
Power	2 kW
Fuse*	10 A

* The dryer shall be operated with the recommended fuse rating. Normal fuse type slow.

Weight and dimensions on last page.

4. Instructions to the owner

The owner of the dryer must produce clear operating instructions, adapted to local site conditions, and make these available to all users who have to observe these operating instructions.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance. Dispose of used items at the nearest environmental protection facility for recycling.
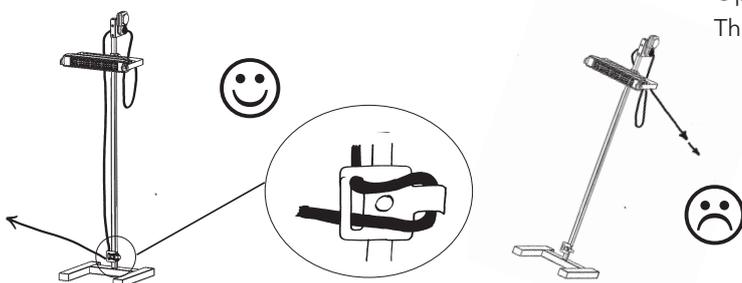
For safety reasons the infrared dryer must be supplied by recommended maximum fuse, see table in chapter 3.2.

5. Assembly instruction

The dryer is delivered assembled.

The connector is mounted in its transport position on the stand.

To operate, connect the IR cassette to the control unit: connect at the bottom of the control unit.

# 6. Basic instruction for operation

6.1 Keyboard

Software defined button
Confirmation choices

Software defined button
Cancellation choices

Start
Stop

Enter

Cassette in use

Temperature control
On/Off

6.2 Display

Active program

Flash off – active

One cassette active

Full bake – inactive

Temperature reading

Confirmation choices

Cancellation choices

6.3 Program mode

This mode is for your everyday use. It helps you run the dryer with preinstalled programs and edit program settings.
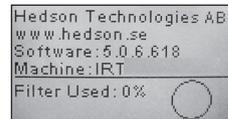
To enter the program mode, turn the main switch on.

When you start the dryer, an information screen will appear for two seconds. By pressing the confirmation or cancellation button this information will show until released. The diagram shows cassette filter usage and notifies when it is time to change filter.

6.4 Settings mode

The settings mode enables you to change advanced system parameters. Thanks to our advanced control system in this mobile dryer there are many settings that can be altered. This is normally not a part of the everyday usage.

To enter the settings mode press both **arrow keys** when you turn the main switch to position 1.

Read chapter 9 for more information.

6.5 Positioning the dryer

Optimum distance is 250 mm.

The cassette also has an angle adjustment possibility.

# 7. Program Mode – General rules for navigation in the software

- – The display shows software defined options in the bottom corner fields.
- – To adjust the values use the **arrow keys.**
- – To move to previous display without saving, press **cancel**.

7.1 Basic navigation

There are twelve predefined programs and three empty ones. All 15 programs have editable positions, names and drying parameters.

Scroll up or down using the **arrow keys**, press **select** to run the program or **view** to edit.

1. Putty	6. Top coat	11. Final boost
2. Filler Bright	7. Clear coat	12. Soft cure
3. Filler Dark	8.Plast Filler	13. Free prog
4. Water base	9. Plast Top coat	14. Free prog
5. Base coat	10. Plast Clear coat	15. Free prog
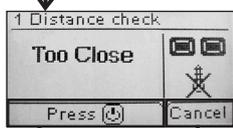
7.2 Run

7.2.1 Distance check

Make sure there is enough distance between the cassette and the surface to be dried. Turn the temperature control on/off. See chapter 8.1.

**Stop** or **cancel** returns to 7.1.

7.2.2 Start drying

Press **start** to begin the drying sequence. The remaining time of the flash off will start counting down. When the flash off is finished, the program automatically changes to full bake mode.

7.2.3 Program graph

This graph is available when the temperature control is active. The graph describes the target, actual temperature, and remaining time. See chapter 8.1.
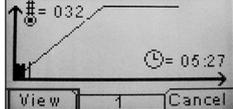
7.2.4 Program values

These are the same values as shown in program graph (7.2.3), except for the remaining time, but also the used power capacity of the machine and the energy consumption of the current drying process.

Note! An inactive temperature control does not show temperature values.

7.2.5 Energy consumption

Total energy consumption per drying process is shown for the last 10 runs.
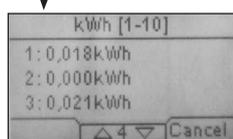
7.2.6 Drying complete

When flash off and full bake times have expired the software returns to 7.1.

Note! To extend the lifetime of the lamps, the ventilators will continue to run for cooling. After three minutes they turn off automatically.

Note! When the drying program is completed the temperature control will automatically reactivate.
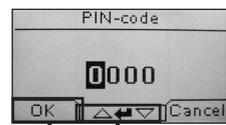
7.3 Edit

7.3.1 Properties

The values of the chosen program will show on the display. By pressing the "Temperature control" button the software switches between the properties with and without the temperature control. A change in either property is independent of the other one. See chapter 8.1.

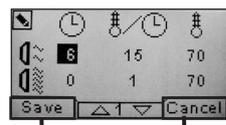**Stop** or **cancel** returns to 7.1.

7.3.2 PIN Code

Use the arrow keys to set the correct digit. Press **enter** to confirm and to edit the second, third and fourth digit of the advanced PIN code.

Note! An entered PIN code is valid for all entries until the main switch is turned off. See chapter 9.2 for advanced PIN code.

Use **arrow keys** to set numbers.

7.3.3 Edit program parameters

When marked, change the value of the parameters with the arrow keys. Press **enter** to change the next value and so on. Pressing enter for the last value directs the user to editing of program position and name. Press **cancel** to exit without saving any parameters.
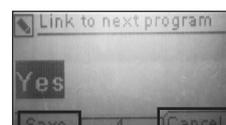
The program returns to 7.3.1.

7.3.4 Edit program position/name

When marked, change the program number with the arrow keys. Press **enter** to confirm and to edit the next symbol.

Note! Changing the number will also change the program position in the program list.

The program returns to 7.3.1.

7.3.5 Expansion of the program steps

When the drying process requires more than the two standard steps, you can expand the number of steps in the drying cycle by linking to the next program.

Start from 7.3.4 and press **enter** repeatedly until the "Link to next program" appears on the screen. Select with the arrow keys **yes** or **no**, and then press **save**. The link to the next program will remain until it is deactivated (**no**). Use the program 13, 14 or 15 as these are free programs without any default.
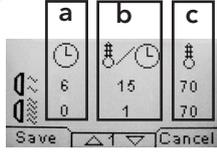
The program returns to 7.3.1.

8. Extended usage information

8.1 Temperature control

The mobile dryer is equipped with an automatic temperature control. This enables optimum drying/curing results within the shortest possible time.

The properties when the temperature control is on are:

a. minutes

b. temperature increase/minute

c. max allowed temperature

The temperature control (pyrometer) measures the average temperature over a surface. The diameter of this surface equals half of the distance between the IR cassette and the object to be dried. The laser pointer indicates where the distance check is made. This pointer is close to being in the centre of the temperature measurement also.

In settings mode, the short and long limit for a "correct" distance measurement can be adjusted. Default correct distance is between 55 and 65 cm.

Note! The temperature is measured as an average of the measured surface (default diameter value 30 cm). Make sure to have the measuring surface placed correctly. Make sure that you don´t measure the temperature on glass, tyres or outside the object. Otherwise, the result between the programmed temperature values and actual values may differ. This may lead to unsatisfactory results and if the process alarm is activated it will stop the drying/curing.

Consequently, for surfaces smaller than ⌀ 30 cm, which the temperature control cannot read, we recommend deactivating the temperature control. To permanently deactivate the temperature control see chapter 9.4.9.

With the temperature control deactivated the program properties are:

a minutes

b percent power of max possible
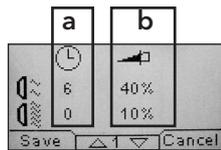
The program settings with or without the temperature control activated are working independently of each other.

8.2 Process alarm

To notice temperature deviations, the mobile dryer is equipped with a process alarm. If the difference between the current temperature and the requested temperature is more than 30°C, the message "Warning! Process error" appears in the display and the dryer switches off automatically. This warning has to be acknowledged by pressing **enter**. By doing this, the program is terminated.

In case of process alarm, check if the temperature measuring device (pyrometer) is aligned correctly on the surface to be dried and that it is not registering unwanted material temperatures.

Attention! The process alarm function is not activated when mobile dryer is delivered.

Please see chapter 9.4.3 for activating.

9. Settings Mode

9.1 Log In

To enter the settings mode you first have to log in. Press both **arrow keys** as you turn the main switch on. The display will ask you for a PIN code.

9.2 PIN code

Use the arrow keys to fill in the correct digit. Press **enter** to confirm and edit the second, third, and fourth digit of the code.

No code is required for basic settings, just press **OK** for the default code of 0000. To change this code, read chapter 9.4.5 "Basic PIN Code".
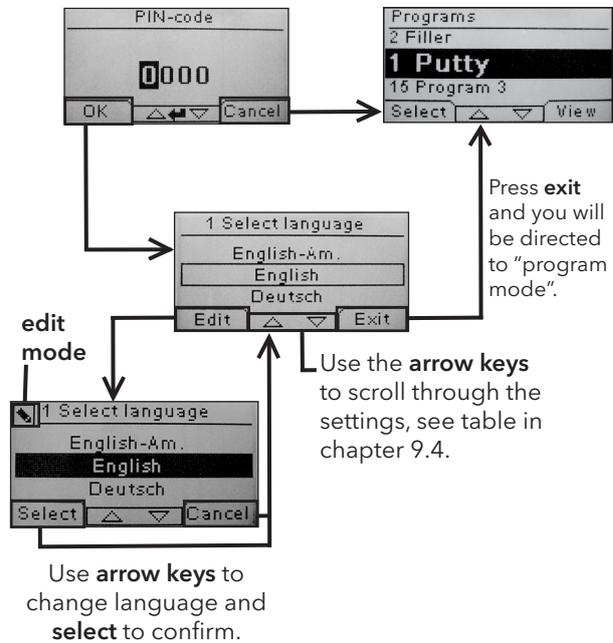
Advanced PIN code   5780
Used for program adjustments and advanced settings. To change this code, read chapter 9.4.13 "Advanced Pin Code".

Attention! An entered PIN code is valid globally in the software until the main switch is turned off, i.e. if you enter advanced settings mode and then exit to program mode. The program settings will still be editable until the main power is turned off.

9.3 Navigation

To adjust a setting, press **edit**. To go back from edit mode to settings mode without saving, press **cancel**.

Note! If you press exit from settings mode you will be redirected to program mode. You will then need to repeat from step 9.1 "Log In" to enter 9.4 "Settings" again.

Press **exit** and you will be directed to "program mode".

edit mode

Use the **arrow keys** to scroll through the settings, see table in chapter 9.4.

Use **arrow keys** to change language and **select** to confirm.

9.4 Settings

Ch.	Overview	available in	
		Basic	Advanced
9.4.1	1 Select Language		x
9.4.2	3 Process Alarm		x
9.4.3	4 Temp Unit		x
9.4.4	5 Buzzer	x	x
9.4.5	7 Basic PIN Code		x
9.4.6	8 Short Dist lim.		x
9.4.7	9 Long Dist lim.		x
9.4.8	15 Temperature Ctrl		x
9.4.9	16 Disp. Contrast	x	x
9.4.10	18 Distance		x
9.4.11	23 Filter Time		x
9.4.12	25 Contin. Mode		x
9.4.13	36 Advanced PIN Code		x
9.4.14	37 Dist Unit		x
9.4.15	43 Advanced Code		x
9.4.16	44 Reset Prog. Settings		x
9.4.17	45 Reset Filter Timer		x
9.4.18	46 Statistics	x	x
9.4.19	47 Perform Self test	x	x
9.4.20	48 Program Time Scale		x
9.4.21	49 Proc. Alarm Temp.		x

9.4.1 1 Select Language

Use the up and down **arrow keys** to scroll through the fourteen different languages (arranged alphabetically) until the correct language appears. Press **select** to confirm.

If you accidently switch to a language that you don´t understand, turn the main switch on while pressing the **cassette in use** button. The dryer will then start up with British English.

9.4.2 3 Process Alarm

Use the up and down arrow keys to set whether the alarm is active or not. Press **select** to confirm. For alarm sound settings, see 9.4.4 "Buzzer".

9.4.3 4 Temp. Unit

°C and °F appear on the screen. Use the up and down arrow keys to select the desired temperature unit. Confirm the selected unit by pressing **select**.

9.4.4 5 Buzzer

The sound effects can be muted/activated by using the arrow keys to select no/yes. Press **select** to confirm.

9.4.5 7 Basic PIN Code

You can change the PIN code to prevent unauthorized access to the basic setting, as described in table in chapter 9.4. To do this, use the up and down arrow keys to change the first digit, press **select** to confirm. Continue with the second, third and fourth digit. When completed, press **select** to confirm the new four digit PIN code.

9.4.6 8 Short Distance Limit

The original settings for the correct short distance limit is 55 cm. You can change the value for the short distance limit from 35 to 95 cm. Settings higher than 80 cm are not recommended. Press **select** to confirm.

9.4.7 9 Long Distance Limit

The original settings for the correct long distance limit is 65 cm. You can change the value for the long distance limit from 40 to 130 cm. Settings higher than 100 cm are not recommended. Press **select** to confirm.

9.4.8 15 Temperature Ctrl

You can choose if you want to turn the temperature control (pyrometer) on or off permanently.

Note! If you turn the temperature control off in settings mode you cannot activate it in program mode.

Temperature graphs and values will not be accessible when this feature is turned off. Instead the software will work with power levels, that is percentage of maximum capacity.

9.4.9 16 Disp. Contrast

You can change the contrast of the display on a scale from light to dark (25-55). Scroll between the values with the up and down arrow keys and press **select** to confirm.

9.4.10 18 Distance

You can change the distance measuring between centimeters and text. If text is chosen the distance is indicated on the display as "too close", "too far" or "correct". If measuring fails "check distance manually" appears.

9.4.11 23 Filter Time

The default value is 400 working hours. After this time, the filter replacement warning is displayed for filter change.

If the dryer is placed in a dusty environment, it is recommended to change filters more frequently.

Note! Keep in mind that if the filter is too dirty, the lamp service life will be reduced as a result of impaired cooling.

To reset, see 9.4.17 "Reset filter timer".

9.4.12 25 Contin. Mode

The continuous mode is for sales demo purposes. For safety reasons and for minimizing unnecessary wearing down of the dryer, this mode must be used only in exceptional cases.

9.4.13 36 Advanced Pin code

To change the code to your personal choice use the up and down arrow keys to change the first digit, press **select** to confirm. Continue with the second, third and fourth digit. When completed press **select** to confirm the new four digit PIN code.

Warning! Make sure that you remember the new code.

9.4.14 37 Dist Unit

This provides you with the opportunity to change unit type between centimeters and inches.

9.4.15 43 Advanced Code

It is possible to enable/disable the request for a PIN code. This will remove the PIN code request in program mode and the code **0000** will give you access to advanced settings. Press **select** to confirm your choice.

9.4.16 44 Reset Prog. settings

You can reset to the pre-programmed factory settings for all programs. Confirm by pressing **yes**.

Note! Also the programs 13-15 will reappear empty as from factory.

9.4.17 45 Reset Filter Timer

After a filter change on the cassette/s, restart the filter timer with this setting. Confirm by pressing **yes** to reset the filter time counting.

To adjust the value in the filter timer, see chapter 9.4.11.

9.4.18 46 Statistics

The following information is available:

Run time
Shows accumulated working hours and minutes.

Start-ups
Shows the total number of starts of the dryer.

Σ (Total Power Consumption)
Presents the total energy consumption.

Φ (Average power consumption)
Presents the average consumption for all runs.

9.4.19 47 Perform Self test

The best fault trace software on the market has been developed with this dryer. In this test all the important input and outputs to and from the computer can be tested. This test will give the opportunity for a quick and accurate function verification of the different parts of the dryer.

This test procedure is only available in English. By pressing the **yes** button you enter the first step of the self test. To exit the self test, press the **start/stop** button.

Automatic testing includes the following:

Test 1: Push Button Test
All buttons on the control unit are tested. The corresponding symbols are displayed by pressing the buttons. Press **enter** for approx. three seconds in order to continue to the next step of the test program.

Test 2: Display Test
Verify that all pixels light up on the display. Press **enter*** and check that all pixels go out. Press **enter*** to continue.

* or upper left software button

Test 3: Buzzer Test
Check that the buzzer sounds. Press **enter** or **next** to continue.

Test 4: Cassette IR Test
The IR cassette lamps light up. Check that all the IR lamps are lit. For safety reasons this test is limited to 10 seconds. Press **enter** or **next** to continue.

Test 5: Ventilator Test/cassette
The ventilator in the cassette now starts. A sound from the ventilator confirms that it is working. Press **enter** or **next** to continue.

Test 6: Laser Test
Direct the laser towards the object. Check that a red, dotted circle is visible on the object. Press **enter** or **next** to continue.

Test 7: Temperature Sensor Test
Direct the temperature sensor towards an object that is at room temperature. The temperature on the display should not deviate from room temperature by more than ±3°C or ±5°F. Press **enter** or **next** to continue.

Note! Temperature measurement is made as an average of a surface according to chapter 8.1.

Test 8: Distance Sensor Test
Direct the distance sensor towards the object at a distance of 0.3-1 m. Check that the distance shown on the display matches the manually measured distance. A deviation of ±3 cm is acceptable. Press **enter** or **next** to continue.

Test 9: Temperature Guards
The computer card has a temperature measuring device that is seen on the display.

The temperature is shown in °C or °F depending on the settings you have made.

The computer lifetime will be shortened if temperatures are above 70°C/158°F during operation. If this happens during drying a new window will appear after the completed drying cycle saying "warning High temp Pc".

Test Completed
Automatic testing is now complete. Press **enter** or **next** to finish.

9.4.20 48 Program Time Scale
Possibility to change between minutes and seconds.

9.4.21 49 Proc. Alarm Temp.
Possitbility to set maximum temperature difference between current and requested temperature (5-99°C). This function is activated in 9.4.2.
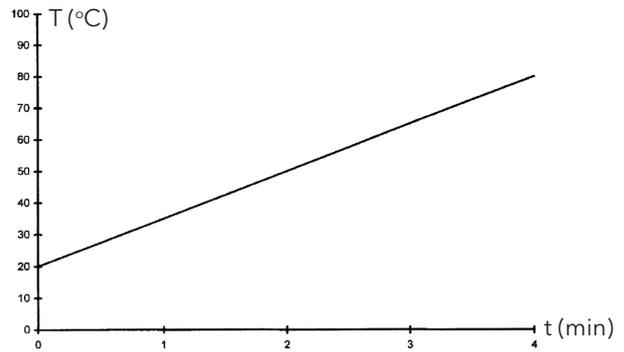
10. Programming examples

EX 1.

FLASH OFF/PREHEATING

Initial temperature	20°C/86°F
Time	4 min
Temperature increase	15°C/27°F /min
Final temperature	80°C/176°F

FULL BAKE/CURING

Initial temperature	60°C/140°F
Time	0 min
Temperature increase	5°C/9°F /min

EX 2.

FLASH OFF/PREHEATING

Initial temperature	20°C/86°F
Time	4 min
Temperature increase	20°C/36°F /min
Final temperature	60°C/140°F

FULL BAKE/CURING

Initial temperature	60°C/140°F
Time	5 min
Temperature increase	5°C/9°F /min
Final temperature	60°C/140°F
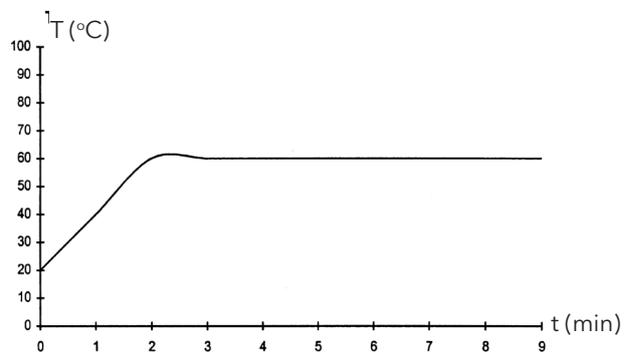
EX 3.

FLASH OFF/PREHEATING

Initial temperature	20°C/86°F
Time	4 min
Temperature increase	10°C/18°F /min
Final temperature	60°C/140°F

FULL BAKE/CURING

Initial temperature	60°C/140°F
Time	8 min
Temperature increase	20°C/36°F /min
Final temperature	110°C/230°F /min
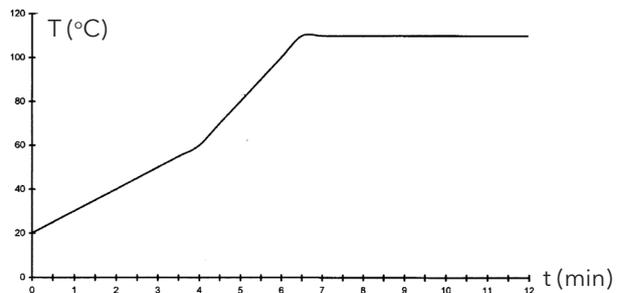
EX 4.

FLASH OFF/PREHEATING

Initial temperature	20°C/86°F
Time	6 min
Temperature increase	20°C/36°F /min
Final temperature	60°C/140°F

FULL BAKE/CURING

Initial temperature	60°C/140°F
Time	6 min
Temperature increase	15°C/27°F /min
Final temperature	90°C/194°F

EN
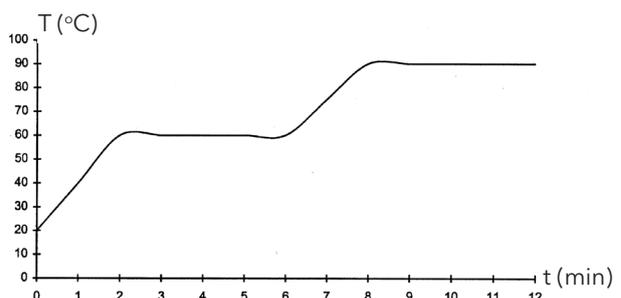
11. Maintenance and Service

Weekly

Check that all IR lamps light up during mobile dryer operation. Defect IR lamps can cause uneven heat distribution over the surface.

Clean the dryer from dust, which can be a cause of fire, with a damp cloth. Also, check that all cables are undamaged. A damaged cable can be a danger to life!

Monthly

Check the gold coated reflectors. Damaged or extremely dirty reflectors can over heat the reflector body and/or the cassette. In case of doubt, please contact the customer service in order to clarify if the gold coated reflector needs to be changed.

Yearly

Plan to change the air filter approx. once per year. You will get a message in the software when it is time to change. When starting up the dryer you will get an indication on how much of the filter time that is used.

Run the self-test as described in chapter 9.4.19 "47 Perform Self Test".

Verify the pyrometer indicated temperature with a calibrated handheld pyrometer. Max deviation ±3°C or ±5°F.

11.1 IRT lamp replacement

Attention!

Do not touch either the gold coated reflector or the new IR lamp with your fingers. Only remove the protective paper on the IR lamp after you have installed it.

1. Unplug the cable.
2. Loosen the screws (A) on each side.
3. Remove painted plate (C).
4. Pull out the reflector package (D).
5. Loosen screws (B) holding the reflector with the broken lamp.
6. Pull out the protective net (E) from the reflector profile and loosen the lamp screw (F) at each end of the lamp.
   Note! Do not touch the new IR lamp with your fingers. Keep the protective paper around the lamp until it has been installed
7. Install new lamp. Adjust the lamp lenghtway so the bulb is centered in the reflector. Remove the protective paper from the lamp.
8. Assemble the dryer in the reverse order.
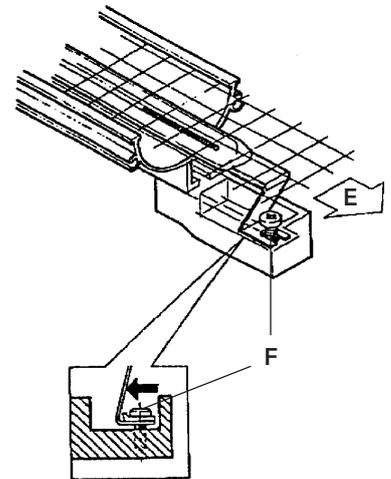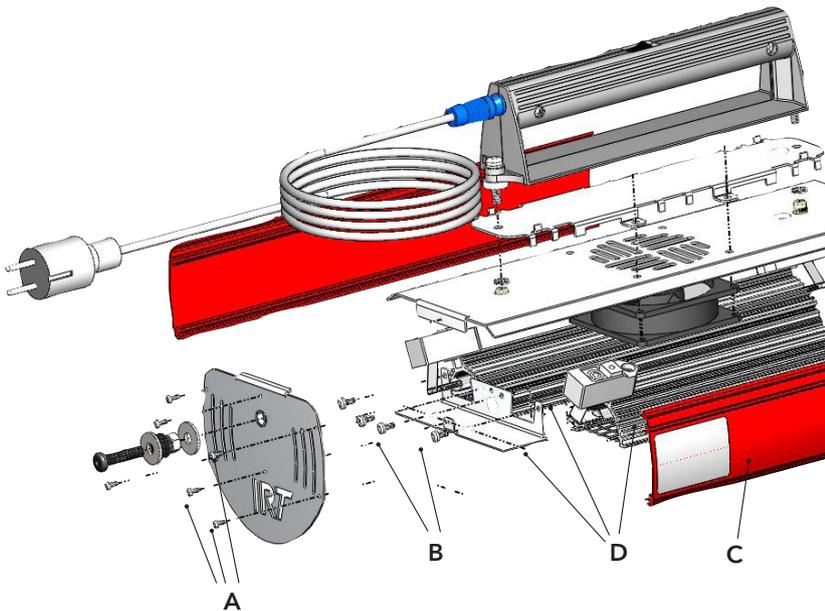
12. Spare parts
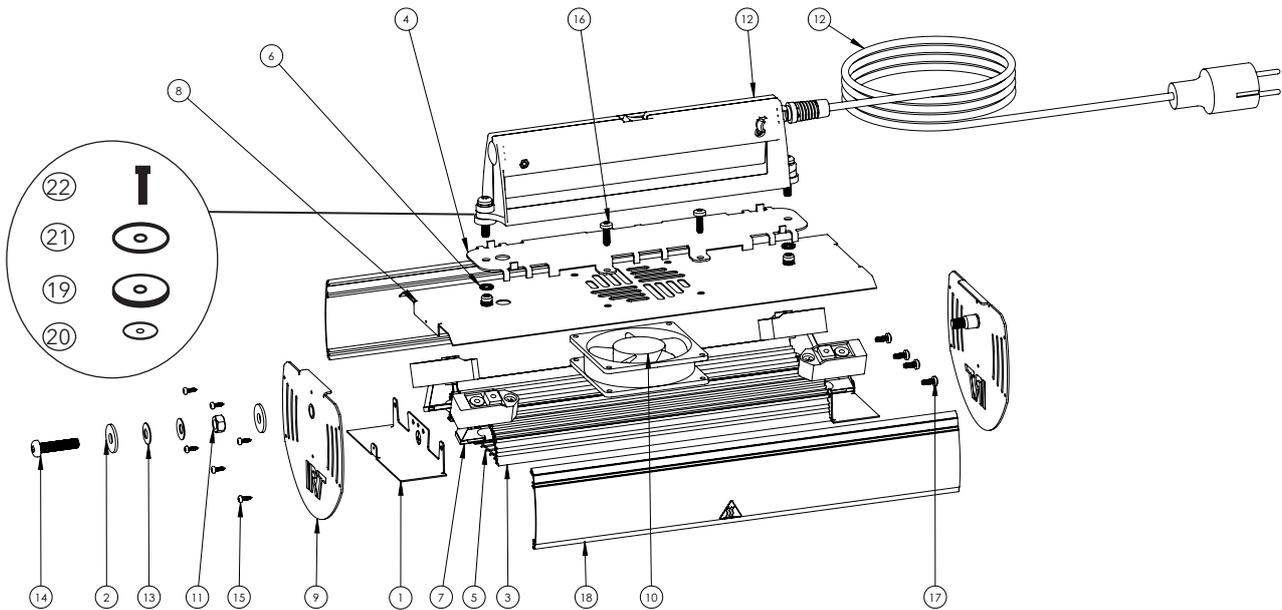
Position	Qty	Part no.	Description
1	2	421074	Bracket twin reflector
2	4	n/a	Washer 8.4x24x2 DIN9021
3	2	713904	Reflector FF2 with foil and lamp-holders
4	1	421076	Heat protector
5	2	713801	Protective mesh FF2
6	2	n/a	Washer star 6.4x11x2FZB DIN 6798
7	2	102700	Lamp 1 kW, 230 V
8	1	421073	Sheet backside
9	2	421075	End sheet
10	1	711186	Fan 12 V, 92x92 mm
11	-	-	-
12	1	714312	Handl compl. with switch and cable EU
13	-	-	-
14	2	n/a	Socket head cap screw M8x35
15	12	n/a	Screw RTS B4x9.5 DIN7981C
16	4	n/a	Screw MRT-GF M5x16 FZB ISO 14583
17	9	n/a	Screw MRT-TX M4x10 FZ
18	2	713689	Side Extrusion red
19	2	713753	Spacer teflon 18x10.5x5
20	2	713756	Spacer metal 10x6.3-15
21	2	n/a	Washer BRB M6 A2
22	2	n/a	Screw MRT - TX M6x30 FZB

Position	Part no.	Description
3:1	713585	Reflector FF2
3:2	712393	Lamp holder
3:3	104074	Foil E360 1

Control unit			
Position	Qty	Part no.	Description
12:2	1	750497	Cable EU
	1	750628	Plug 13A UK
	1	750366	Keyboard IRT 8 keys
U1	1	714014	PCB IRT 4-1 PcAuto
	1	750220	Display 128x64 points with lighting
V1	1	750227	Solid state relay
T1	1	195464	Power supply 230 VAC / 12 VDC
U2	1	194572	Pyrometer
U5	1	194573	Laser pointer

n/a = not applicable as spare part

13. EC Declaration of conformity

According to testing institutes and according to the machinery directive the IRT product in this manual are not defined as machines, wherefore the machinery directive reference cannot be included in this declaration.

In accordance with EN 17050-1:2010

We,   Hedson Technologies AB
      Box 1530
      SE-462 28 Vänersborg
      Sweden

declare under our sole responsibility that the product

IRT AutoSpot

used to accelerate the drying/curing of paint and paint related materials to which this declaration relates, is in conformity with the following standards;

EN 60335-1:2002 +A11+A1+A12+A2 +A13+A14+A15	Specification for safety of household and similar electrical appliances. General requirements.
EN 60335-2-45:2002 +A1+A2	Specification for safety of household and similar electrical appliances. Particular requirements for portable heating tools and similar appliances§.
EN 61000-6-3	Electro-magnetic Compatiblity, Generic Emission Standard.
EN 61000-6-2	Electro-magnetic Compatiblity, Generic Immunity Standard.
EN 62233:2008	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.
EN ISO 9001	Quality Management System
EN 61000-3-11	Electro-magnetic Compatiblity, Limitation of voltage changes.

Compliance statement:
The maximum value of the system impedance (Zmax) is 0.044 ohm for the phase lines and 0.030 ohm for the neutral at the interface between a public supply network and a user's installation.

in accordance with the provisions of the following directives in their most current version

2014/35/EU	Low Voltage Directive
2014/30/EU	Electro-magnetic Compatiblity Directive
2011/65/EU	Directive on the restriction of the use of certain hazardous substances (RoHS) in electrical and electronic equipment.

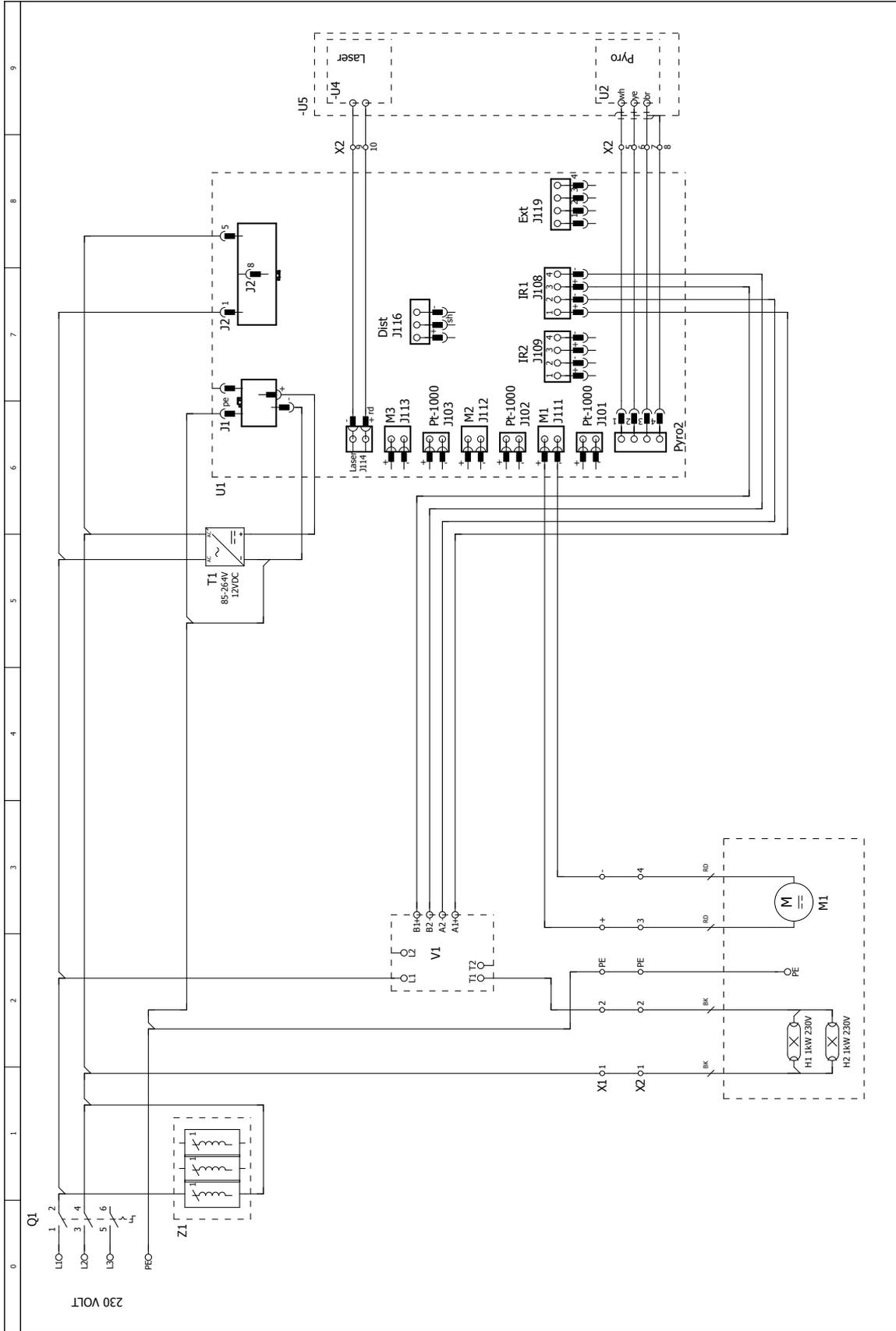Arlöv, Sweden, March 3rd, 2017

HEDSON TECHNOLOGIES AB
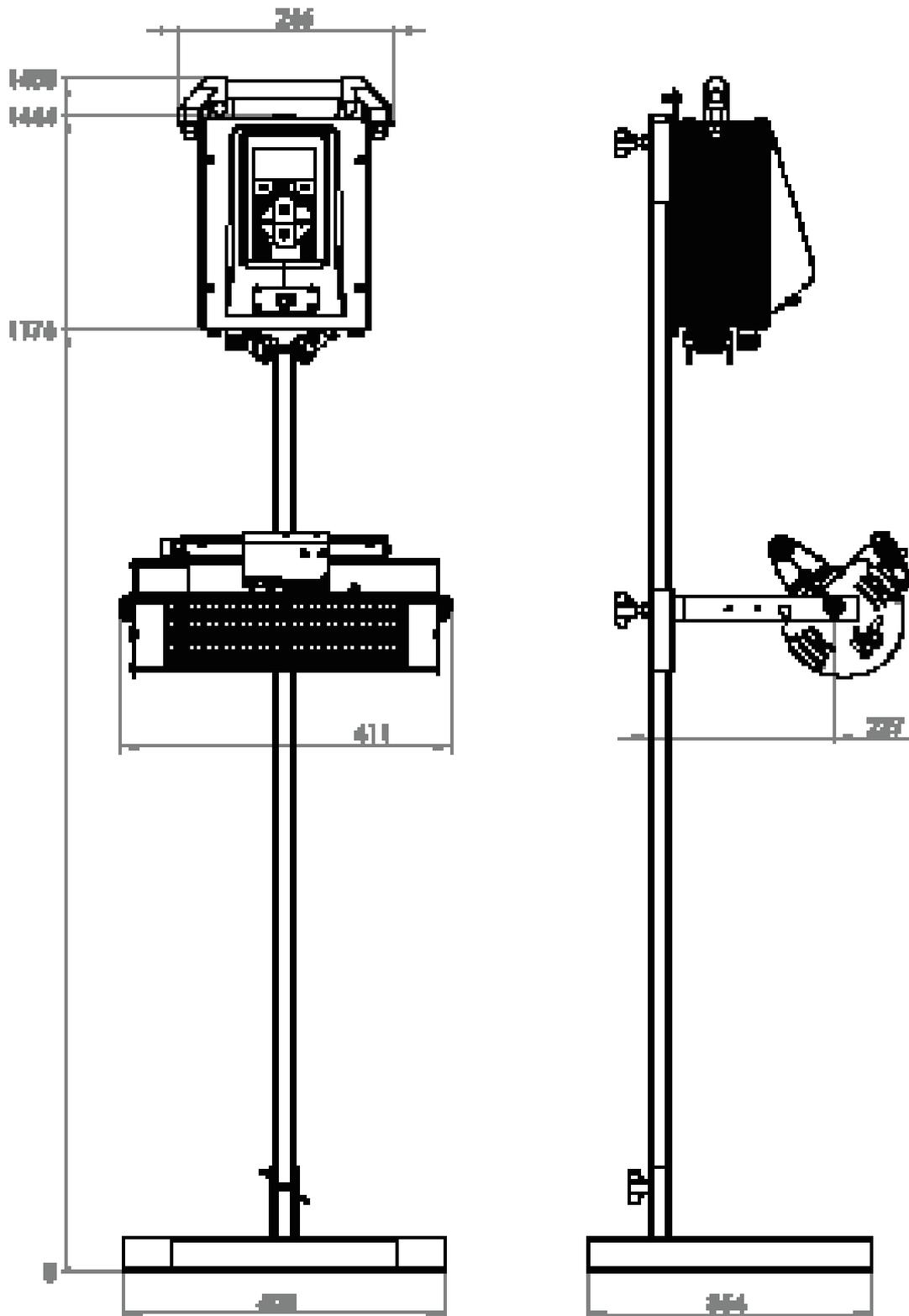Technology Division

Magnus Björnström

CEO

14. Electrical diagram • Elektrischer Schaltplan • Schéma de cablage électrique • Elschema • Schemi elettrici • Diagrama eléctrico

196363 rev 1

15. Weights and dimensions • Gewicht und Abmessungen • Poids et dimensions • Vikt och dimensioner • Peso e dimensioni • Peso y Dimensiones

Dimensions in mm
Weight 17,2 kg

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HEDSON

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