



**UVA 1 PrepCure  
4 Digital**



## HEDSON UVA 1 PrepCure 4 Digital Instruction Manual

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**HEDSON UVA 1 PrepCure 4 Digital**



### **Intended use of the product**

This product serves exclusively accelerate the curing of putty, filler, base and clear coats. The product must not be used for other purposes than the described curing processes. The maximum ambient temperature during operation should not exceed 40°C. Do not use the product in spray booths or within a distance of 5 m from other solvent based spraying activities in order to avoid explosion risks.

### **Product description**

The easily manoeuvrable IRT-UVA PrepCure is equipped with one or two compact cassette. Each cassette is equipped with one high efficiency 1000 W UVA-lamp which make the curing extremely fast. The design, combined with a gas spring, makes cassette adjustment simpler. The control unit enables individual control of each cassette. The time can be set to 0-30 min.

### **UV curing**

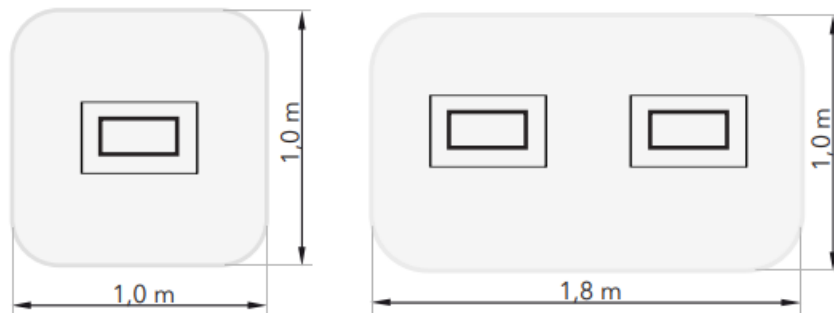
The ultraviolet light spectrum generated by a UV lamp interacts with special coating chemistries to produce a high-quality, durable curing. In many applications, UV curing can achieve the curing faster, and therefore at a lower total cost than many other coating processes. UV-coat contains less solvent than conventional paint and from that perspective has less negative environmental impact. Most importantly to achieve a good and fast curing result there must be enough UV-A intensity. IRT UVA PrepCure has an outstanding intensity to achieve the best curing result.

### **Unique benefits of the UV cure coating**

- Reduced amount of solvent

- Fast curing time
- Low-temperature processing
- Scratch-resistant and chemical-resistant

## Technical data



- Curing area at 55 cm distance for IRT UVA-1 is 1,0×1,0 m (HxW) with a UV-A intensity of 25W/m<sup>2</sup>.  
Curing area at 55 cm distance for a IRT UVA-2 is 1,0×1,8 m (HxW) with a UV-A intensity of 25W/m<sup>2</sup>.

Consult your paint supplier to find out what intensity your paint material needs

## RISK GROUP 3

WARNING UV emitted from this product. Avoid eye and skin exposure to unshielded product. (EN62471)

IRT-UVA-1/2 PrepCure 4 Digital is in excess of the Exempt Group and viewer-related risk depends upon the use of the redshirt

|   |                                 |                              |
|---|---------------------------------|------------------------------|
|   | IRT-UVA-1 PrepCure 4 Digital    | IRT-UVA-2 PrepCure 4 Digital |
| Voltage   | 230 V 1 ~/PE                    |                              |
| Frequency   | 50-60 Hz                        |                              |
| Current   | 5 A                             | 10 A                         |
| H.I.D. UV bulb light  | High pressure metal halide lamp |                              |
| Lamp wattage  | 1000 W                          | 2000 W (2 x 1000 W)          |
| Noise level   | < 70 dB (A)                     |                              |
| Risk Group EN62471  |                                 |                              |
| 3   | 0-0,5 m distance                | 0-1,0 m distance             |
| 2   | 0,5-1,5 m distance              | 1,0-2,0 m distance           |
| 1   | 1,5-2,0 m distance              | 2,0-3,0 m distance           |
| Exempt  | > 2,0 m distance                | >3,0 m distance              |
| Hazard Distances (HD)*  |                                 |                              |
| HDEx  | >2,0 m (Exempt Risk Group)      | >3,0 m (Exempt Risk Group)   |
| HDRG1   | 1,5-2,0 m (Risk Group 1)        | 2,0-3,0 m (Risk Group 1)     |
| HDRG2   | 0,5-1,5 m (Risk Group 2)        | 1,0-2,0 m (Risk Group 2)     |
| HDRG3   | < 0,5 m (Risk Group 3)          | < 1,0 m (Risk Group 3)       |
| Exposure Hazard Value EHV at above hazard distances   |                                 |                              |
| EVHEx   | <0,95                           | <0,84                        |
| EVHRG1  | <0,55                           | <0,72                        |
| EVHRG2  | <1,0                            | <0,51                        |
| *Total distance from light source. For reflected light, add distance to reflecting surface with distance between lamp and reflecting surface. |                                 |                              |

#### Instruction to the owner

The owner of the mobile dryer must produce clear operating instructions, adapted to local site conditions, and

make these available to all users. Mobile dryer users must adhere to 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. Dispose of spent items at the nearest environmental protection facility for recycling.

#### **The UV- radiation emission is:**

- according to EN12198 = Category 2
- according to EN62471 = Risk group 3

Appropriate measures shall be taken.

### **Safety instructions**

#### **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. Never direct the cassette towards highly combustible materials. The dryer must not be exposed to paint fog, sanding dust or solvents, due to fire and explosion risk. Furthermore, the lifetime of the dryer will otherwise be reduced. Allow for sufficient cooling time of the dryer.

#### **Electrical equipment**

The mobile dryer is operated by highly dangerous electrical voltage.

#### **Accessing electrical equipment**

Before accessing live parts, remove the main connector from the wall socket. Only professional electricians may have direct access into the electrical equipment. 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!**

### **UV RADIATION CAN CAUSE INJURY AND PROPERTY**

#### **DAMAGE!**

- To reduce risk of injury or property damage from UV radiation, read, understand, and follow the following safety instructions. In addition, make certain that anyone else that uses this heating equipment follows these safety instructions as well.
- Hands, face and other parts of the body shall not be exposed to heat and radiation. Do not stay in front of the lamp cassettes during curing without safety equipment.
- Always wear eye protection, gloves and protective clothing. Failure to this may result in severe burns or long-term injury to the eyes.
- If a person works around UV radiation while on medications, the medication should be checked to see if it would make the person more photosensitive.
- Do not look directly at the light source.

- Do not use if protective glass are broken or missing.

These glass filters the light from unwanted radiation.

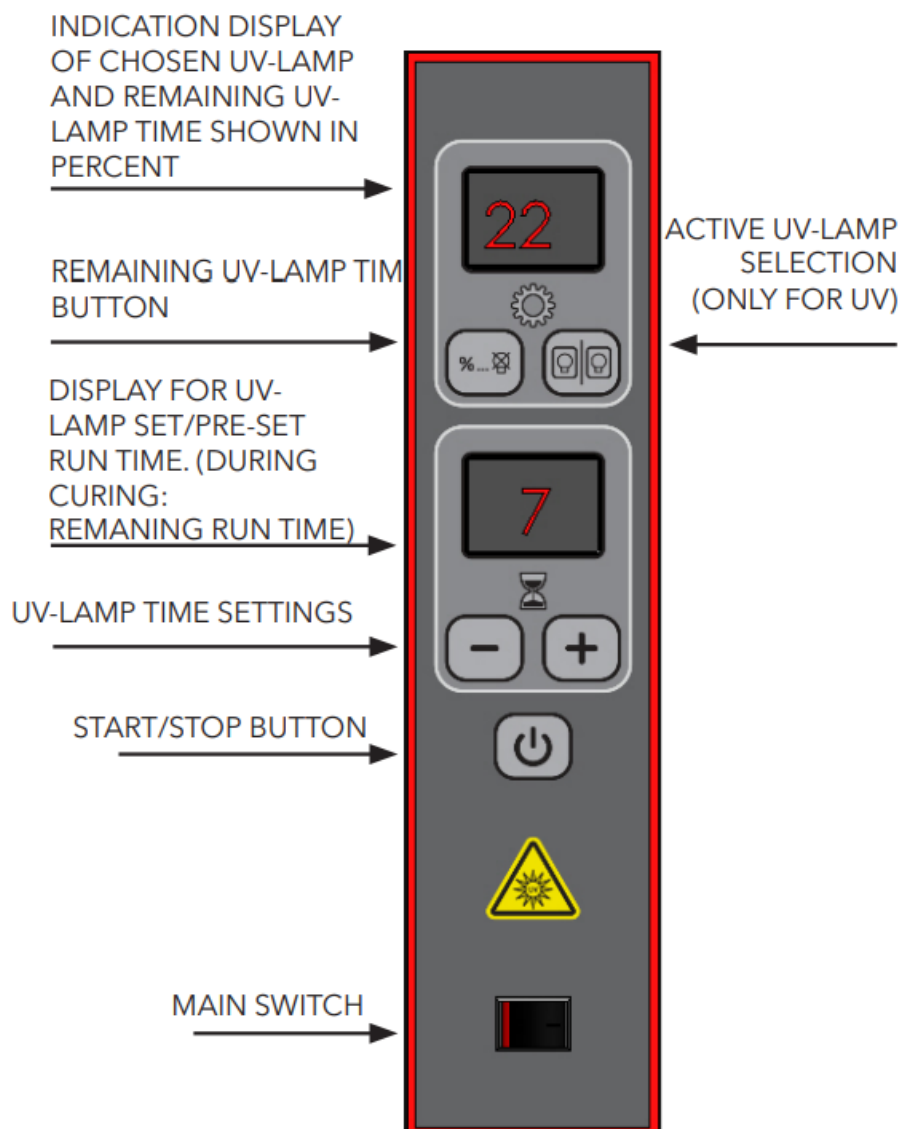
## Operation

Turn the main switch on. Select the desired cassette/cassetts by pressing the upper right button with the two lamp symbols. The selection is illustrated on the display. Set the timer to the recommended time by pressing (+) or (-) buttons. To start the unit, press the Start/stop button. Also press Start/stop button for an earlier termination of the curing

For IRT UVA-2 with two cassettes, the timer controls one or both cassettes. To see the remaining life time of the UV-lamps select one of the lamps according to above and then press the button with the percent sign (%).

NOTE: The restart of a hot lamp takes normally 4-6 minutes depending on the duration time in the recent performed curing.

NOTE: When the curing process is terminated, do not turn off the main switch before the cassette has, by the fan, cooled down for about 5 minutes. Switching off the dryer too early will shorten the life-time of the UVA lamps. Using the UVA-lamps vertically will also shorten their life.



## Maintenance

Before every usage, check that:

- External cabling is not damaged
- That protection glass in front of lamp is not cracked or removed

### **Weekly**

Check that UV lamps light up during mobile dryer operation.

Also, check that all cables are undamaged. A damaged cable can be a danger to life!

### **Quarterly**

Change the air filter at least once per quarter. If the outer surface of the filter becomes very dirty, it must be changed earlier

### **Filter replacement**

1. Loosen the metal clips on the side plates of the cassette.
2. Remove the used filter.
3. Insert the new filter in such a way that the IRT logo is visible from the outside.
4. Push the long edges of the filter into the cassette grooves.
5. Replace the metal clips.

Attention: The filters are disposable and so should not be cleaned as this will result in the loss of their filtering capacity.

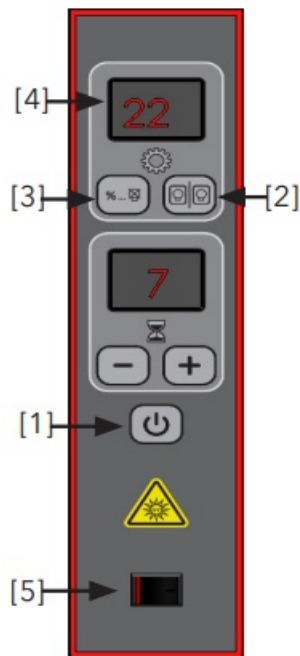
### **UV-lamp replacement**

Please contact your distributor and order a UV-lamp replacement kit including instructions.

- Reset Lamp timer: After replacing the lamp a reset of the timer needs to be done.
- Reset Lamp timer UVA1: Make sure that the main switch [5] is turned off. Hold the start/stop button [1] and top right button [2] pressed in simultaneously while the main switch [5] is turned on. Keep the buttons pressed in until a confirmation message (L1-rESEt.) appears in the top display [4].

#### **Reset Lamp timer UVA2:**

Right lamp: Make sure that the main switch [5] is turned off. Hold the start/stop button [1] and top right button [2] pressed in simultaneously while the main switch [5] is turned on. Keep the buttons pressed in until a confirmation message (L1- rESEt.) appears in the top display [4]. Left lamp: Make sure that the main switch [5] is turned off. Hold the start/stop button [1] and top left button [3] pressed in simultaneously while the main switch [5] is turned on. Keep the buttons pressed in until a confirmation message (L1-rESEt.) appears in the top display [4].



## Troubleshooting

### Problem

The UVA lamps starts up but shuts down automatically after a while.

### Possible Solution

The lamp is worn out. Please contact your distributor and order a new one.

### Problem

The lamp doesn't start.

### Possible Solution

Ensure that required cooling time for lamps is fulfilled. Cooling time increases with dirty air filter. The lamp is worn out. Please contact your distributor and order a new lamp. No power in wall socket, check fuse.

## EC Declaration of conformity

According to testing institutes and according to the machine directive the IRT products in this manual are not defined as machines, wherefore the machine directive reference cannot be included in this declaration. In accordance with EN 45014 We Hedson Technologies AB Box 1530 SE-462 28 VÄNERSBORG, Sweden declare under our sole responsibility that the product

**IRT-UVA 1 & 2 PrepCure 4 Digital to which this declaration relates is in conformity with the following standards:**

- EN 60204-1 Safety of machinery
- EN 61000-6-3 Electro-magnetic Compatibility, Generic Emission Standard.
- EN 61000-6-2 Electro-magnetic Compatibility, Generic Immunity Standard.

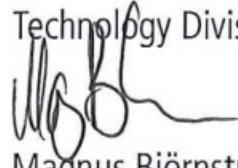


- EN 61000-3-2 Electromagnetic Compatibility
- EN61000-3-4 Electromagnetic Compatibility
- EN ISO 9001 Quality Management System in accordance with the provisions of the following directives in their most current version
- 2014/35/EU Low Voltage Directive
- 2004/108/EG Electromagnetic Compatibility Directive
- 2011/65/EU Restriction of the use of certain hazardous substances (RoHS)

**Arlöv, Sweden March 3rd, 2016**

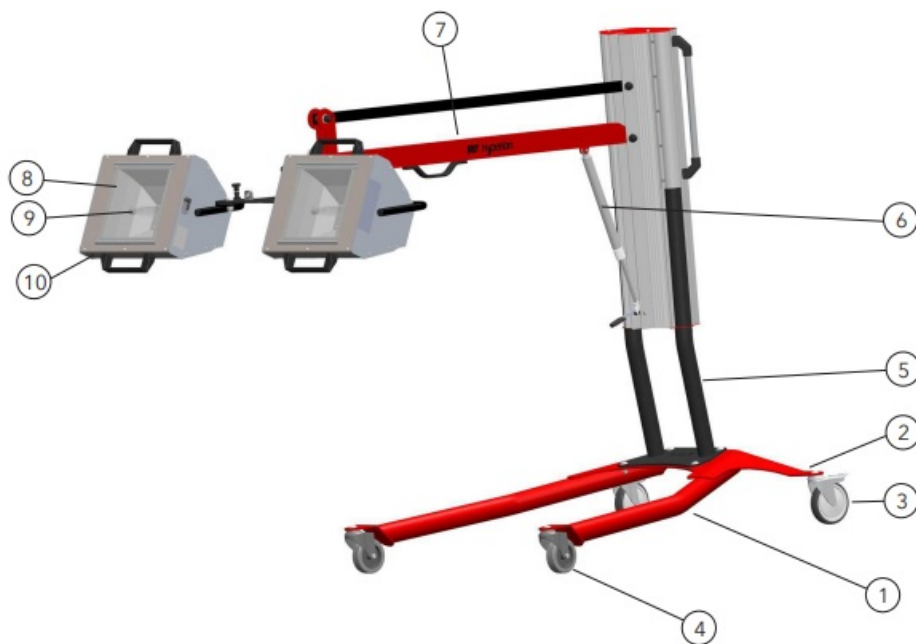
HEDSON TECHNOLOGIES AB

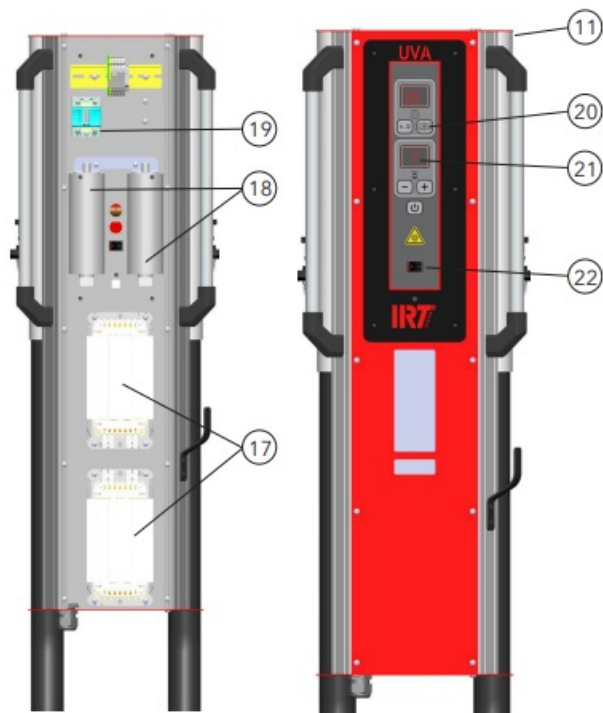
Technology Division



Magnus Björnström

## Spare parts



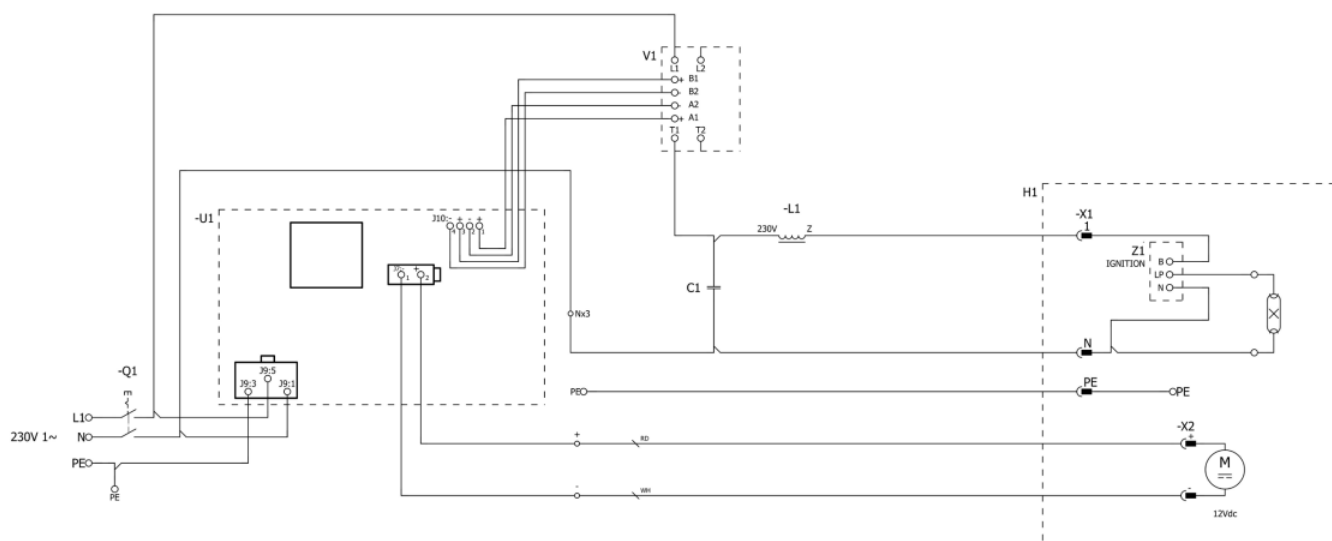


| Pos. | Part.no | Description  |
|------|---------|--|
| 1    | 713472  | Foot Hyperion                                      |
| 2    | 714156  | Assembling kit Wheels                              |
| 3    | 102258  | Castor braked dia: 125 mm                          |
| 4    | 410522  | Castor dia: 100 mm                                 |
| 5    | 714455  | Pillar stand                                       |
| 6    | 714471  | Gas spring UVA 1 (One Cassette)                    |
| 6*   | 714472  | Gas spring UVA 2 (Two Cassettes)                   |
| 7    | 714456  | Arm  |
| 8    | 193552  | Protective glass                                   |
| 9    | 714599  | UV-Lamp replacement kit                            |
| 10   | 714540  | Complete cassette                                  |
| 11   | 714458  | Complete control unit UVA 1 (One Cassette)         |
| 11*  | 714459  | Complete control unit UVA 2 (Two Cassettes)        |
| 12   | 750639  | Harnest, control unit to cassette (not in picture) |
| 13   | 750497  | Cordset EU (not in picture)                        |
| 13*  | 750610  | Cordset AUS/ARG (not in picture)                   |

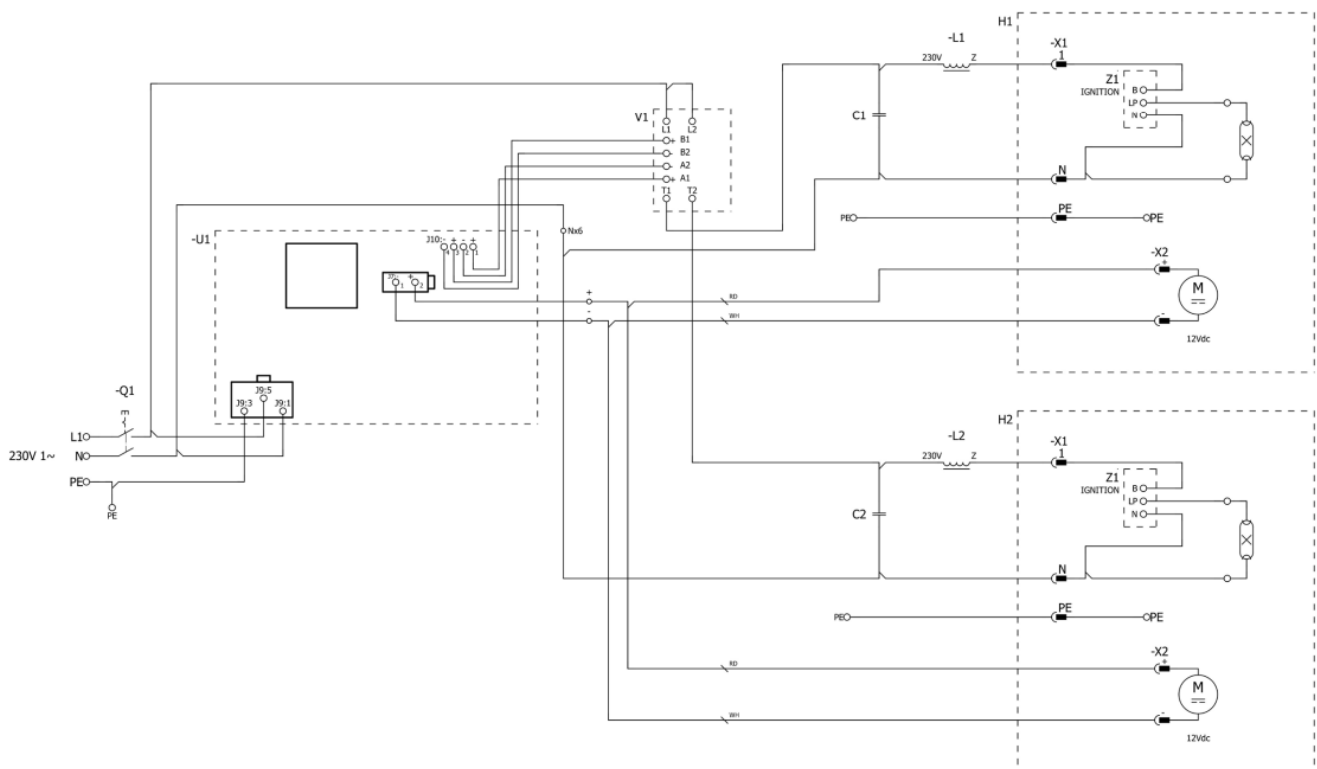
|    |        |   |
|----|--------|---|
| 14 | 194116 | Igniter (not in picture)  |
| 15 | 712894 | Filter (not in picture)   |
| 16 | 714622 | Filter Clip (not in picture)  |
|    |        |   |
| 17 | 194118 | Ballast   |
| 18 | 193386 | Capacitor   |
| 19 | 193942 | Solid state relay   |
|    |        |   |
| 20 | 750500 | Overlay   |
| 21 | 750650 | Circuit board (Note! In order add comment;<br>Single or double cassett coded) |
| 22 | 420771 | Main switch   |
|    |        |   |
| 23 | 129070 | UV-protection glasses (not in picture)  |
| 24 | 714924 | Cooling fan (not in picture)  |
| 25 | 750628 | Power connector 13A for UK (not in picture)                                   |

## Electrical diagram

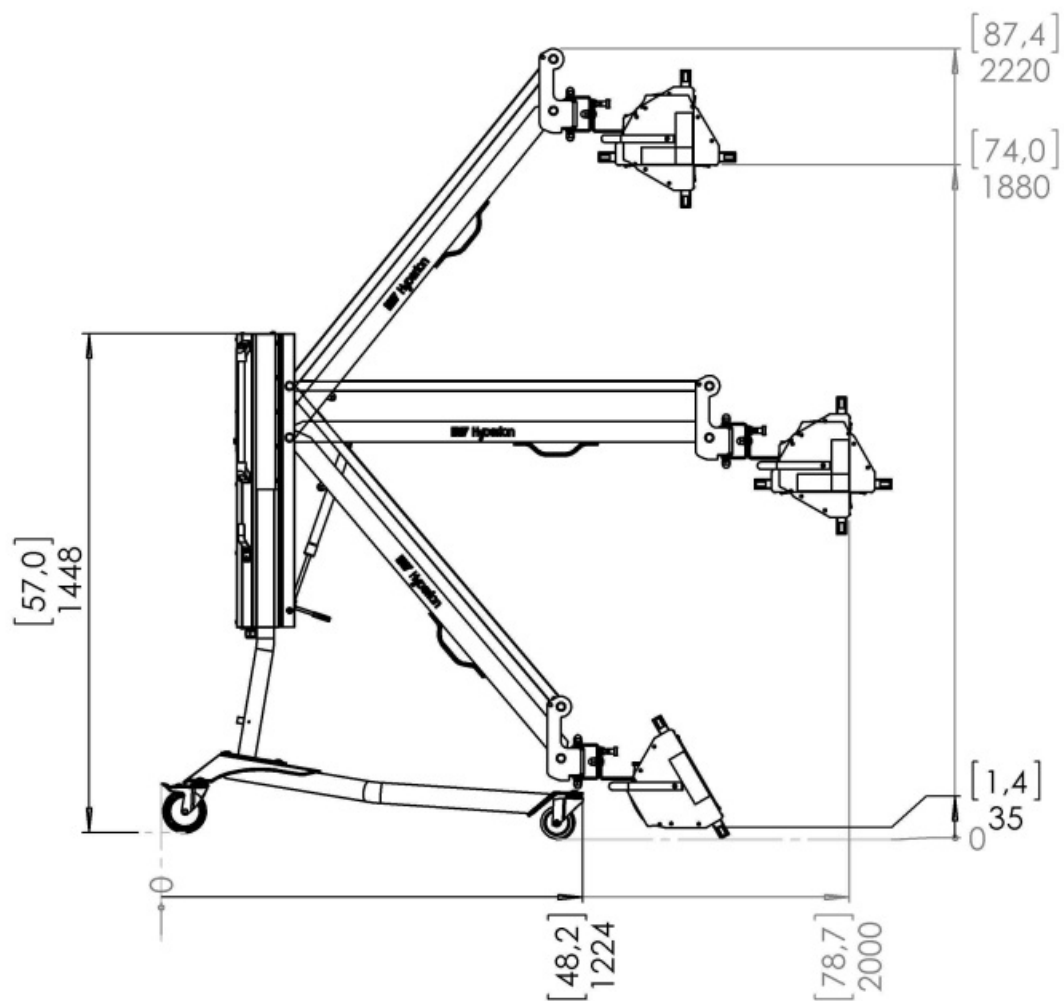
### IRT UVA-1 PrepCure 230V 1 phase



### IRT UVA-2 PrepCure 230V 1 phase



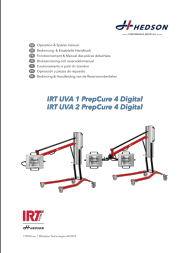
## Dimensions



## Contact

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- [www.hedson.com](http://www.hedson.com)

## Documents / Resources

|  |  |
|--|--|
|  | <p><a href="#">HEDSON UVA 1 PrepCure 4 Digital</a> [pdf] Instruction Manual<br/>UVA 1, UVA 2, UVA 1 PrepCure 4 Digital, UVA 1, PrepCure 4 Digital, Digital</p> |
|--|--|

## References

- [User Manual](#)

### Manuals+, Privacy Policy

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