

# HYUNDAI

## ELECTRIC AIR COMPRESSOR

Model HY2550



## User Manual

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## 1. INTRODUCTION

1.1 This Instruction manual has been written to simplify the use and maintenance of the compressor. Strict attention should be paid to the contents of this Installation, use and Instruction Manual to ensure that correct and economical use of the compressor.

1.2 Safety instructions.

### 1.2.1 Electrical Safety

1.2.1.1 ELECTRICITY can Kill. DO NOT OPERATE this machine if there is any damage to the electrical cables attached to this machine.

1.2.1.2 The owner and operator are responsible for the safe installation and use of this machine.

1.2.1.3 Before use you must read all instructions and make sure that in all aspect the machine is safe to use.

1.2.1.4 This unit should be supplied via a suitably protected electrical supply, and we strongly recommend the use of a Residual Current Circuit. Breaker. Contact a suitably qualified Electrician for more information.

1.2.1.5 Ensure that the unit is PAT tested at regular intervals. Guidance for the inspection period can be obtained by a suitably qualified Electrician.

1.2.1.6 Use the handle to move machine, DO NOT pull or carry the unit with the power lead or plug.

1.2.1.7 Ensure before plugging unit in to a mains supply that the plug, leads and connectors are not;

a. Chaffed, cut or damaged in any way. If there is any damage DO NOT use unit until the damage has been repaired by a suitably qualified person.

1.2.1.8 We do not recommend using any kind of extension lead with this unit as it can cause volt drop in cables which in turn can cause the motor speed to reduce and hence the output of the compressor.

1.2.1.9 The unit comes fitted with a molded plug. If for any reason the plug becomes damaged then a replacement plug of the BS 1363 or BS 1363A, and a correctly sized fuse to BS 1362. Advice on sizing to be sought from a suitably qualified Electrician.

1.2.1.10 the fuse blows ensure that it is replaced with the correct size DO NOT use a larger sized fuse.

1.2.1.11 It is recommend that you DO NOT use outdoors or in wet or damp conditions, unless suitable protection against electric shock is taken.

### 1.3.1. General Safety

1.3.1.1 Keep workspace clean and tidy to avoid any trip hazards.

1.3.1.2 Keep tools away from machine.

1.3.1.3 Ensure any connected air-lines remain clear of machine and tangle free to avoid trip hazards.

1.3.1.4 Before use the all air lines should be checked for signs of damage and wear any such damage should be repaired before unit is put back into service.

1.3.1.5 WARNING the compressor should only be serviced by an authorised agent or representative.

1.3.1.6 Before carrying out any maintenance make sure machine is isolated from the electrical supply and that the air tank is emptied.

1.3.1.7 Ensure machine is kept on solid ground and as level as possible to avoid machine falling over and causing injury. We recommend that the unit is kept under a 10° angle.

1.3.1.8 Keep all un-authorized persons away from machine this is to include children and animals.

1.3.1.9 NOT touch the compressor because during use it will become very hot.

## 2. INSTRUCTIONS FOR USE

2.1 Remove from the packaging and make sure that the unit is not damaged in any way. If it is damaged report damage immediately and DO NOT use machine.

2.2 Fit air filter by first removing transit plug - then screw supplied air filter into compressor - Item 7 on component location chapter 9.

2.3 Check the oil level gauge (1) If oil level is low then carry out the following procedure to top up oil;

2.3.1 .1 Ideal level shown

2.3.2 .2 Turn OFF using power switch (3) machine then isolate from power source.

2.3.3 .3 Remove filler knob (2) and place somewhere safe.

2.3.4 .4 Fill with 15W 40 using a funnel, make sure that any spilt oil is cleaned up thoroughly.

2.3.5 .5 Do not overfill

2.3.6 .6 On completion replace filler knob by turning clockwise.

2.4 Turning machine ON/OFF see power switch (3).

2.4.1 .1 RED knob shown will turn unit 'ON' when pulled upwards.

2.4.2 .2 When RED knob is pressed down the unit will turn 'OFF'.

## 3. START UP PROCEDURE

3.1 Make sure unit is turned OFF.

3.1.1 Turn machine OFF see power switch (3).

3.1.2 Make sure the RED knob is pressed down which will turn the machine 'OFF'.

3.1.3 Connect machine to suitable supply.

3.2 The machine operation after this point is fully automatic.

3.3 Before starting work leave the compressor running for a few minutes to allow the machine to warm up the lubricating parts inside compressor.

3.4 The Machine motor will run if the in-built pressure switch is activated.

3.4.1 The pressure switch will work automatically, turning the machine ON as the pressure falls due to work.

3.4.2 The pressure switch will work automatically, turning the machine OFF as the pressure inside the tank reaches the maximum limit.

3.5 The machine is protected by a thermal trip and will operate if the machine becomes overheated. It will restart once machine has cooled this will typically be 15 to 20 minutes.

## 4. USING THE MACHINE

4.1 Adjusting the working pressure is achieved by adjusting the RED knurled knob (4). The pressure gauge/s will indicate pressure/s required. The pressures gauge/s are indicated as shown (5a & 5b)

4.2 Releasing air pressure from the outlet line is achieved by pulling the Brass release knob as shown (6).

## 5. MAINTENANCE

5.1 Check oil level weekly.

5.2 Every 50 hours;

5.2.1 Remove air filter (7) and clean;

5.2.1.1 To remove air filter undo the wing nut by rotating anti-clockwise.

5.2.1.2 Remove cover.

5.2.1.3 Remove filter and clean, make sure the filter is dry before replacing it into filter housing

5.2.1.4 To replace reverse procedure.

## 5.2.2 Change the oil;

5.2.2.1 Ensure machine is on level ground.

5.2.2.2 Turn OFF using power switch (3) machine then isolate from power source.

5.2.2.3 Have a container to collect old oil, do not dispose of down any drain/s.

5.2.2.4 Remove filler knob (2) and place somewhere safe.

5.2.2.5 Open drain plug using a spanner and rotate anti-clockwise. Put drain plug somewhere safe (8).

5.2.2.6 Release oil.

5.2.2.7 Clean area with clean rags and reinsert oil drain plug using a spanner and rotating clockwise.

5.2.2.8 Fill with 15W 40 using a funnel, make sure any spilt oil is cleaned up thoroughly.

5.2.2.9 not overfill

5.2.2.10 On completion replace filler knob by turning anticlockwise.

## 6. WARNINGS

6.1 DO NOT release any joints whilst the machine is under pressure.

6.2 Before attempting any such work make sure the machine's air pressure has been released.

6.3 To release the pressure inside the machine;

6.3.1 Turn the machine OFF.

6.3.2 Unplug unit from the supply.

6.3.3 Pull yellow release knob (9) until all air has been released.

6.4 Ambient working temperature is 0°C to +30°C.

6.5 DO NOT point water or flammable liquids towards the machine.

6.6 DO NOT place flammable liquids and or materials near machine.

6.7 DO NOT direct air nozzles towards any persons or animals.

6.8 DO NOT allow children or un-authorized and untrained persons to use this machine.

6.9 If the machine is used for painting;

6.9.1 DO NOT operate in enclosed spaces or in the proximity of naked flames.

6.9.2 Make sure the area in which you are working in has sufficient change of air.

6.10 Use correct Personal Protective Equipment.

6.11 Always turn machine OFF after use.

## 7. MACHINE DETAILS

7.1 Maximum pressures;

7.1.1 Working pressure 8.5 bar.

7.1.2 Utilisation pressure 8.0 bar.

7.2 For the European market the compressor tanks are built in accordance with the following EC Directives;

7.2.1 87/404 Simple Pressure Vessel Directive

7.2.2 2006/42 Machinery Directive.

7.3 Sound levels measured at 1 metre  $\pm 3$ dB (A) are as follows;

HP	RPM	dB (A)
1.5	2800	97
2.0	2800	97
2.5	2800	97

N.B. The sound level value may increase by 1dB (A) to 10dB (A) dependent upon area where work is carried out.

**NOTE**

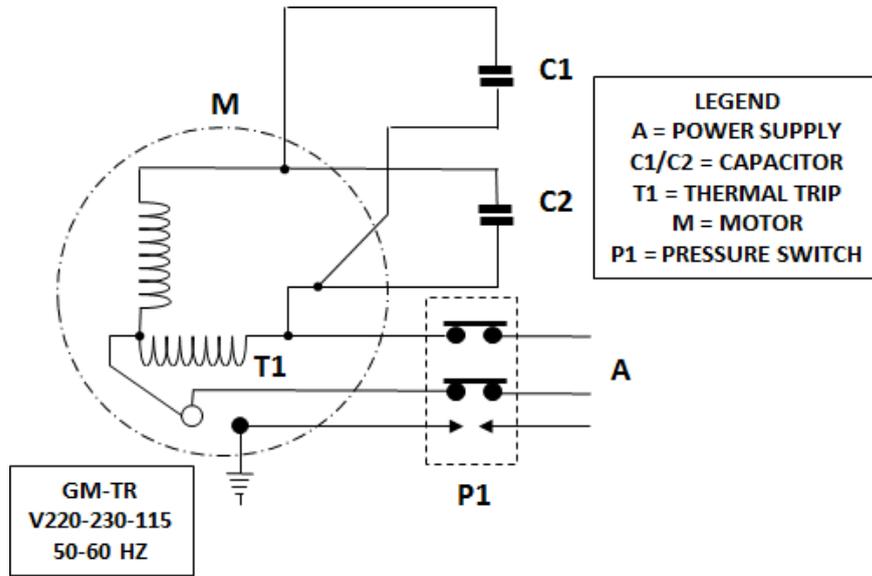
**IMPROVEMENTS:**

We strive to continually improve our products and as such we reserve the right to alter specifications, component parts and data without prior notice.

**IMPORTANT:**

No liability will be accepted for misuse of this product.

**8. ELECTRICAL SCHEMATIC**



**9. COMPONENT LOCATION**



- |                          |                   |                     |                      |                   |
|--------------------------|-------------------|---------------------|----------------------|-------------------|
| 1. Oil level indicator   | 2. Oil filler cap | 3. Power switch     | 4. Pressure adjuster | 5. Pressure gauge |
| 6. Pressure relief valve | 7. Air filter     | 8. Oil drain plug   | 9. Rubber feet       | 10. Tank drain    |
| 11. Compressor           | 12. Air tank      | 13. Air outlets x 2 |                      |                   |

## 10. SPECIFICATIONS

Model	HY2550
Voltage - V	230
Number of phases	1
Frequency – Hz	50
Connection method/Cable length m	3 pin plug - BS1363A
Motor power hp/kw	2.5/1.865
Rated Speed (motor) – RPM	2800
Maximum Pressure - PSi/Bar	145/10
Cut-out Pressure - PSi/Bar	128/8.8
Cut-in Pressure - PSi/Bar	87/6
Tank Capacity - L	50
Free air delivery - CFM - L/min	5.19/147
Displacement - CFM/L/min	7.42/210
Air Outlet	Twin quick release
Output pressure regulation type	Adjustable
Drive type	Direct
Overall Unit Dimensions L x W x H mm	660 x 360 x 640
Net Weight - kg	30
Tank material	Rolled steel

## 11. DECLARATIONS OF CONFORMITY

### EC DECLARATION OF CONFORMITY

The undersigned, as authorised by: Genpower Ltd

Declares that the following equipment manufactured under licence by Hyundai Korea

Conforms to the Directive: -  
**2000/14/EC (as amended)**

of the European Parliament and of the council on the approximation of the laws of the Member States relating to the noise emission in the environment by equipment for use outdoors.

Equipment Category:	Compressor
Product Name/Model:	Hyundai HY2550
Type/Serial No:	Electric Direct Drive 50L Air Compressor
Net installed power:	1.5kW
The technical documentation is kept by:	Roland Llewellyn, Genpower Ltd, Issac Way, Pembroke Dock, Pembrokeshire, SA72 4RW.

The conformity assessment procedure followed was in according with annex VI of the Directive.

Notified Body:	TÜV SÜD Industrie Service GmbH, Service GmbH, Westenstrasse 199, 80686 MÜNCHEN, Deutschland. Certification n° OR/015514/001
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Measured Sound Power Level:	97dB(A)
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Guaranteed Sound Power Level:	97dB(A)
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A copy of this certificate has been submitted to the European Commission and to EU Member State United Kingdom.

Place of Declaration:	Pembroke Dock, SA72 4RW.
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Date:	09/04/2014
Signed by:	Roland Llewellyn
Position in Company:	Director
Name and address of manufacturer or Authorised representative:	



Genpower Ltd,  
Issac Way, Pembroke Dock,  
Pembrokeshire, SA72 4RW.

## 12. RECYCLING



Products which are labelled with the adjacent symbol **MUST NOT** be disposed of in household rubbish. You must dispose of packaging and old electrical and electronic equipment separately.

### 12.1 Disposing of packaging.

12.1.1 The packaging consists of cardboard and correspondingly marked plastics that can be recycled.

12.1.2 Recycle all packaging materials.

### 12.2 Disposing of appliance (at end of life).

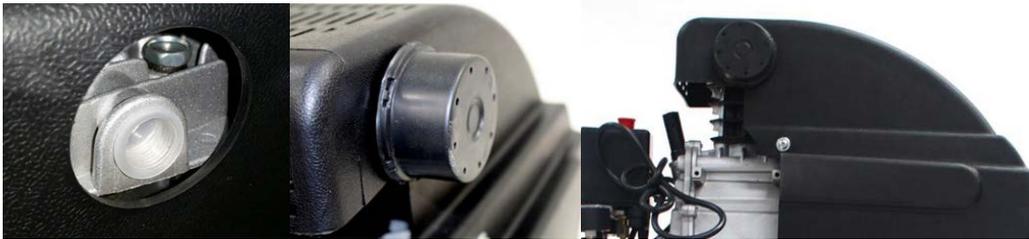
12.2.1 Please check with your local authority about the possibilities for correct disposal.

## 13. AIR FILTER ADDENDUM

### 13.1 Before use you must fit the supplied air filter.

13.1.1 Step 1 Remove transit bung by unscrewing in an anti-clockwise direction.

13.1.2 Step 2 Fit supplied air filter into space left by transit bung.









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