

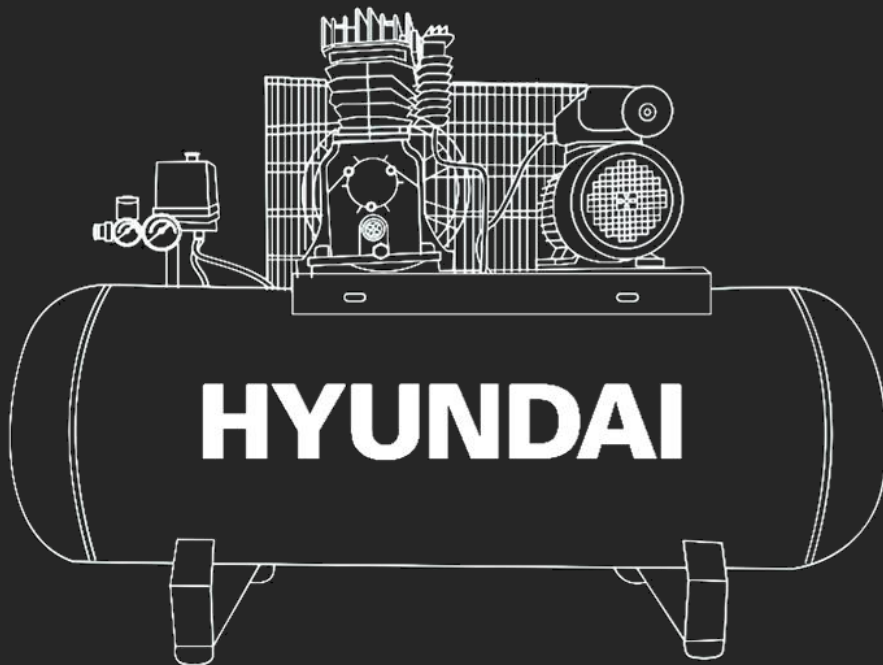
HYUNDAI
POWER PRODUCTS

ELECTRIC AIR COMPRESSOR HY3150S, HY3200S, HY3100P

Instruction Manual



GENUINE PRODUCT OF
HYUNDAI CORPORATION



WARNING: Read the instructions carefully before use.

Iss:Nov/24

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1. SAFETY

1.1 General Safety Notes.

- 1.2 The operator of the machine is responsible for, and has a duty of care in making sure that the machine is operated safely and in accordance with the instructions in this user manual. Keep the manual safe and pass it on if the machine is loaned or sold to another user.
- 1.3 Please note the following safety points.
- 1.4 The machine should never be left in a condition which would allow an untrained or unauthorised person/s to operate this machine.
- 1.5 All due care and diligence should be taken by the operator for the safety of and with regard to those around whilst using the machine.
- 1.6 Some or all of the following - warning signs, symbols and/or PPE pictograms may appear throughout this manual. You **MUST** adhere to their warnings. Failure to do so may result in personal injury to yourself or those around you.



DANGER

Indicates a hazard, which, if not avoided, could result in serious injury or death.



WARNING

Indicates a hazard, which, if not avoided, could result in serious injury.



CAUTION

Indicates a hazard which, if not avoided, might result in minor or moderate injury.



NOTE

Indicates a situation that could easily result in equipment damage.

READ and keep the manual safe and pass it on if the machine is loaned or sold to another user.

You **MUST** fully understand all instructions to ensure you use and operate the machine safely.

Appropriate Personal Protective Equipment (PPE), **MUST** be worn at all times when operating or repairing the machine.



HAND
PROTECTION
MUST BE WORN



EYE
PROTECTION
MUST BE WORN



PROTECTIVE
CLOTHING
MUST BE WORN



HEARING
PROTECTION
MUST BE WORN



FOOT
PROTECTION
MUST BE WORN



HEAD
PROTECTION
MUST BE WORN



RESPIRATOR
MUST BE WORN




FACE SHIELD
MUST BE WORN

1.60 Vibrations (where applicable).

- 1.61 Prolonged use of hand held (operated) machines will cause the user to feel the effects of/from vibrations. These vibrations can lead to white finger (Raynaud's phenomenon) or carpal tunnel syndrome. This condition reduces the ability of the hand to feel and regulate temperature, causing numbness and heat sensations and may cause nerve damage and circulatory tissue death.
- 1.62 Not all factors that lead to white finger disease are known, but cold weather, smoking and other diseases that affect blood vessels and blood circulation as well as large and long-lasting impact of shocks are considered factors in the formation of white finger. Note the following to reduce the risk of white finger and carpal tunnel syndrome;
- 1.63 Wear gloves and keep your hands warm.
- 1.64 Take regular breaks.
- 1.65 All of the above precautions may help reduce the risk of white finger disease but not rule out the carpal tunnel syndrome. Long-term and regular users are therefore

recommended to observe the condition of your hands and fingers. Seek medical attention immediately if any of the above symptoms should occur.

1.70 Noise (where applicable).

- 1.71 The operating noise of the machine can damage your hearing. Wear hearing protection such as earplugs or ear defenders to protect your hearing. Long-term and regular users are advised to have hearing checked regularly. Be especially vigilant and cautious when hearing ear protection because your ability to hear alarm warnings will be reduced.
- 1.72 Noise emissions for this equipment is unavoidable. Carry out noisy work at approved times and for certain periods. Limit the working time to a minimum. For your personal protection and protection of people working nearby it is also advisable for them to wear hearing protection.
- 1.73  See Certificate of Conformity section for Outdoor Noise declaration of conformity.

2. MACHINE SPECIFIC SAFETY

- 2.0 DO NOT direct the output jet of air towards people or animals.
- 2.1 Familiarise yourself with the application and limitations of the air compressor.
- 2.2 Ensure that the compressor is in good order and condition before use. If in any doubt, do not use the compressor and contact your service agent.
- 2.3 Before moving or maintaining the compressor, ensure that the air tank pressure has been vented.
- 2.4 Only use recommended attachments and parts. Unapproved items may be dangerous and will invalidate the warranty.
- 2.5 Read the instructions for any accessory used with the compressor. Ensure that the safe working pressure of any air appliance used, exceeds the output pressure of the compressor.
If using a spray gun, check the area selected for spraying is provided with an air change system or adequate ventilation.
- 2.6 Make sure that the machine is turned off before disconnecting the air supply hose.
- 2.7 Use the compressor in a well-ventilated area and ensure it is placed on a firm surface.
- 2.8 Keep tools and other items away from the compressor when it is in use and keep the work area clean.
- 2.9 Make sure that the air hoses are not tangled, twisted or pinched.
- 2.10 Keep children and unauthorised persons away from the work area.
- 2.11 DO NOT disassemble the compressor for any reason if you are not qualified to do so. The unit must be checked by qualified persons only.

- 2.12 DO NOT operate the compressor within the vicinity of flammable liquids, gases or solids.
- 2.13 DO NOT touch the compressor cylinder, cylinder head or pipe from the head to the tank as these may be hot and will remain so for some time after shutdown.
- 2.14 DO NOT operate the compressor without all the safety guards in place.
- 2.15 DO NOT attempt to move the compressor by pulling the air hose.
- 2.16 DO NOT use the compressor for a task for which it was not designed.
- 2.17 DO NOT deface the certification plate attached to the compressor tank.
- 2.18 DO NOT operate the compressor without an air filter.
- 2.19 DO NOT allow anyone to operate the compressor unless they have received full instruction.
- 2.20 DO NOT leave the compressor unattended.
- 2.21 DO NOT block the ventilation grills.
- 2.22 DO NOT cover the compressor or restrict airflow around the machine whilst it is operating.
- 2.23 The air tank is a pressure vessel and the following safety measures apply;
DO NOT tamper with the safety valve DO NOT modify or alter the tank in any way.
DO NOT strap anything to the tank.
DO NOT subject the tank to impact, vibration or heat.
DO NOT allow contact with abrasive or corrosive materials.
YOU MUST drain condensation from the tank daily and inspect side walls for corrosion every 12 months.
- 2.24 The pressure safety valves on Hyundai compressors have been updated to comply with the latest CE certification standards. The pressure release pull ring has been removed from the valve due to the pull ring being incorrectly used to drain the air from the compressor tank, causing excessive wear to this safety valve. The air and moisture should be drained from the tank by releasing the drain valve on the bottom of the tank.
- 2.25 Correct Personal Protective Equipment (PPE) **MUST** be worn at all times when operating or repairing this machine. This should include but is not limited to;



ELECTRICAL CONNECTIONS

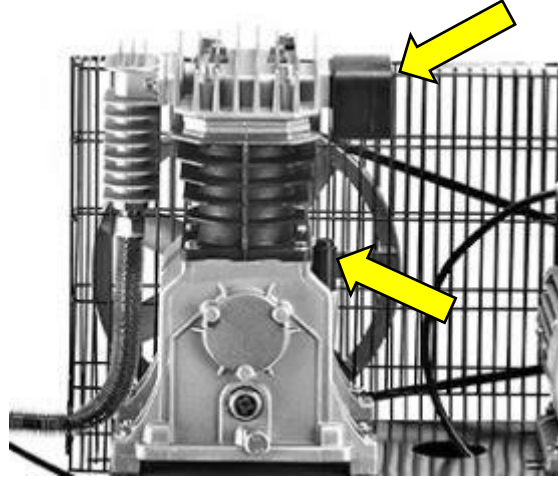
- 2.26 The compressor is fitted with a standard 13amp, 230v (50Hz) plug for connection to a standard 13amp domestic electrical power supply.
- 2.27 If the plug should need changing at any time, ensure a plug and fuse of identical specification is used.
- 2.28 We recommend that the compressor is connected to the mains supply via a Residual Current Device (RCD).
- 2.29 DO NOT use with damaged cables and only use the correct rated extension cords.
If in doubt, consult a qualified electrician.

3. PREPERATION



NOTE

Before starting the compressor, remove the travel plugs and install the air filter and crank case breather plug.



- 3.0 Position the compressor in a flat, level surface with a maximum permissible inclination of 10°
- 3.1 Site in a well-ventilated area.
- 3.2 If the surface is inclined and smooth, check that the compressor cannot move while in operation.
- 3.3 If the surface is in a raised position, make sure the compressor cannot fall, securing it in a suitable way.
- 3.4 Check the oil level sits in the red circle of the oil glass sight window.



- 3.5 Connect your air supply to a ¼" male universal or industrial quick connector coupler. Connect the male quick connect coupler to the female quick connect coupler located on the air compressor.
- 3.6 Make sure the pressure switch is in the OFF position.

- 3.7 Keep the voltage within $\pm 4\%$ of the rated value.
- 3.8 Insert the power supply cord into the power supply socket.

TEST RUN



NOTE

Before using the air compressor for the first time, complete a test run as follows.

- 3.9 Move the power switch to the OFF position.
- 3.10 Check the oil level is in the red circle of the glass sight window.
- 3.11 Plug the power supply cord into a power supply socket.
- 3.12 Start the air compressor by moving the power switch to the ON position.
- 3.13 The pressure gauge reading will slowly rise as pressure increases inside the air tank.
- 3.14 When the gauge reading reaches working pressure, the pressure switch will automatically turn the power off.
This indicates the compressor is working normally.
- 3.15 Move the power switch to the OFF position, unplug the power supply cord.
- 3.16 If the compressor is not working properly, the pressure gauge will indicate that there is a decrease in pressure in the tank.
If there is an air leak from the compressor, the pressure in the air tank decreases, the pressure switch resets and the motor automatically turns back on.

4. STARTING PROCEDURE

- 4.0 Check that the power switch is in the OFF position.
- 4.1 Attach the air hose to the $\frac{1}{4}$ " quick disconnect coupler.
- 4.2 Ensure the air filter is installed.
- 4.3 Check the oil level.
- 4.4 Plug the compressor in to a working plug socket.
- 4.5 Move the power switch to the ON position.
- 4.6 Allow the tank motor to run and fill the tank until the motor turns off.
- 4.7 To regulate the air flow: While the air compressor is running, turn ON your tool and turn the regulator knob to the right, increasing the pressure.
Turn the pressure up until the desired pressure is reached.
Operate the air tool normally.

5. STOPPING PROCEDURE

- 5.0 Move the power switch to the OFF position.
- 5.1 Unplug the compressor.
- 5.2 Reduce the pressure in the tank through the air supply hose.

6. USING THE MACHINE

- 6.0 To determine the correct working pressure and air flow requirements for any piece of equipment, check the corresponding manual.
- 6.1 Be aware that the air flow figure stated on tools and accessories refers to 'free air delivery' and not the piston displacement of the compressor.
- 6.2 When adjusting the regulator, always adjust up to the required pressure.
- 6.3 After fitting the desired coupling to the outlet valve, connect a compatible air hose.

An outlet regulator is necessary to use air equipment direct from the compressor.
- 6.4 At the end of each working day, drain any moisture from the main tank.
- 6.5 Place a container under the drain plug and then carefully unscrew it clockwise.
- 6.6 DO NOT allow moisture to accumulate in the tank as this will corrode the inside of the tank and affect the pressure rating of the tank.

7. MAINTENANCE



WARNING

Service and maintenance must be performed by an authorised agent. DO NOT tamper with or attempt to adjust the pressure switch or safety valve. Before moving or carrying out any maintenance on the compressor, ensure the pressure switch is in the OFF position, the power cord has been unplugged and the air tank pressure has been vented and the compressor allowed to cool down for a period of time.

DRAINING THE TANK

- 7.0 You should drain the tank at the end of each day.
- 7.1 Place a suitable container capable of holding water, underneath the compressor.
- 7.2 With compressed air in the tank, slowly turn the drain knob to the open position. The water in the tank will drain out.
- 7.3 Once the water has drained, turn the drain knob to the closed position.
- 7.4 Draining the tank reduces risk of corrosion inside the tank.

AIR FILTER

- 7.5 The air filter is designed to reduce noise and help prevent particulates in the air, from entering and damaging the air compressor.
- 7.6 After being used for a period of time, the air filter will become clogged. This will reduce the air intake capabilities of the compressor, reducing performance. Therefore, the air filter must be cleaned or replaced regularly.
- 7.7 Open the cover on the air filter and remove the air filter element.
- 7.8 Inspect the filter element and if damaged or worn, replace immediately.
- 7.9 To clean the element, blow the dirt from the air filter from the inside out. You can use a low pressure airline to do this.
- 7.10 Reinstall the air filter.

LEAK TESTING

- 7.11 A small leak in any hose or connection will reduce the air compressors performance.
- 7.12 To test for leaks, spray a small amount of soapy water on the area suspected of leaking.
If soap bubbles appear, replace the broken part.

CLEANING

- 7.13 Clean the compressor with a soft brush or moist cloth.
- 7.14 DO NOT use a pressure washer or hose pipe as water can penetrate the motor and cause failure that will not be covered by the warranty.
- 7.15 DO NOT use solvent based cleaning products, these could damage parts.

STORAGE

- 7.16 Turn off the power and wrap the power cord around the compressor.
- 7.17 Clean the air compressor to remove all dirt and dust.
- 7.18 Cover the air compressor with a cover to protect the unit from dust and moisture.
- 7.19 DO NOT stack or store other items on top of or around the air compressor.

8. TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSE | POSSIBLE SOLUTION |
|--|--|---|
| Pressure drop in the tank | Air leaks at the connections | Let the compressor build up pressure in the tank to maximum pressure if possible. Brush soapy water on the air connections and look for air bubbles. Tighten leaky connections. If the problem persists, contact your service dealer |
| The unloader valve leaks when the compressor is idle | Unloader valve seal is defective | Let the air in the air tank flow out until all the pressure is released. Then remove the unloader valve plug and clean the valve seal. If necessary, replace the seal and then reinstall |
| The compressor stopped and won't restart | The thermal protector turned on because the motor is overheating | Check the main voltage corresponds to the air compressor specifications. An extension cord that is under rated or too long can cause the motor to overheat. Allow the motor to cool down |
| | Motor windings have burnt out | Contact your service dealer |
| The motor does not start or starts slowly | Low voltage supply to the motor | Check that the main voltage corresponds to the air compressors specification. An extension cord that is under rated or too long can cause voltage drop. Use a heavy duty extension cord. Ensure that the air compressor is plugged in to a fully functioning power outlet |
| The compressor is noisy | Compressor head gasket or reed valve is faulty | Stop the compressor and contact your service dealer |
| The compressor does not reach maximum pressure | Compressor head gasket or reed valve is faulty | Stop the compressor and contact your service dealer |
| The compressor does not seem to deliver as much air as it did when new and/or the compressor shuts off with a much shorter time period | The pressure switch needs adjusting | Stop the compressor and contact your service dealer |
| | The tank is full of water due to condensation | Open the drain valve and release the water from the tank |
| The motor pump unit does not stop when the tank pressure reaches maximum working pressure | Pressure switch defective or requires adjusting | Stop the compressor and contact your service dealer |

9. SPECIFICATION

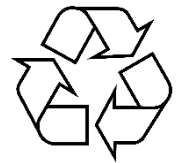
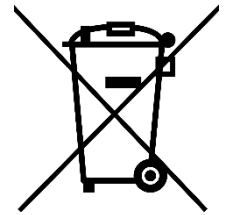
| | |
|-------------------------|------------------|
| Model | HY3100P |
| Power - kw/hp | 2.2 / 3 |
| Displacement - L/min | 396 |
| CFM | 14 |
| Pressure – bar/psi | 10 / 145 |
| Rotating Speed – rpm | 1050 |
| Tank Capacity – L | 100 |
| Dimensions - mm (LxWxH) | 1060 x 410 x 770 |
| Weight – kg | 76 |

| | |
|-------------------------|------------------|
| Model | HY3150S |
| Power - kw/hp | 2.2 / 3 |
| Displacement - L/min | 396 |
| CFM | 14 |
| Pressure – bar/psi | 10 / 145 |
| Pump Speed – rpm | 1050 |
| Tank Capacity – L | 150 |
| Dimensions - mm (LxWxH) | 1310 x 500 x 880 |
| Weight – kg | 90 |

| | |
|-------------------------|------------------|
| Model | HY3200S |
| Power - kw/hp | 2.2 / 3 |
| Displacement - L/min | 396 |
| CFM | 14 |
| Pressure – bar/psi | 10 / 145 |
| Pump Speed – rpm | 1050 |
| Tank Capacity – L | 200 |
| Dimensions - mm (LxWxH) | 1380 x 560 x 910 |
| Weight – kg | 105 |

10. RECYCLING AND PRODUCT DISPOSAL

- 10.0 We do not offer a take back scheme for the recovery of Waste Electrical Electronic Equipment (WEEE) & Batteries.
Instead the responsibility to dispose of WEEE and or Batteries is passed on to you by us.
So when it becomes necessary to dispose of your machine you must take it to your local Civic Amenity Site.
For further information please contact your local Authority for disposal advice.
- 10.1 You MUST make sure that all unused oil and fuel is disposed of correctly either beforehand or at your local Civic Amenity Site.
Under NO circumstances must any fuel or oil be put down drains.
- 10.2 Certain products contain WEEE waste which should be disposed of in your domestic waste.
- 10.3 You MUST recycle WEEE in accordance with your local authority or recycling centre.
- 10.4 Certain products contain batteries which should not be disposed of in your domestic waste.
- 10.5 You MUST recycle batteries in accordance with your local authority or recycling centre.
- 10.6 Unwanted packaging and materials should be stored and taken to a recycling centre so it can be disposed of in a manner which is compatible with the environment.
- 10.7 The following symbol means that you should 'Reduce – Reuse - Recycle'
- 10.8 We are a member of the VALPAK National Compliance Scheme and our registration number is RM08660.
- 10.9 For further information about disposal please contact your Local Authority.
- 10.10 You can also get more advice and guidance about recycling at the following website <http://recycle-more.co.uk>
- 10.11 Should you pass this product on to another user either sold or loaned, you MUST pass on this user manual.
This will make sure that all other users can use and maintain this machine safely.



Declaration Of Conformity

Importer and Authorised Representative

Genpower Ltd

Isaac Way, Pembroke Dock, SA72 4RW

Country of Origin: China

Description: Air Compressor

SKU Code: HY3150S, HY3200S, HY3100P

Date of Issue: 09/12/2019

Regulations and Directives of Compliance

- 2006/42/EC The Machine Directive
- 2014/30/EU Annex II Electromagnetic Compatibility Directive
- 2014/29/EU Simple Pressure Vessel Directive
- 2006/95/EC Low Voltage Directive

REFERENCES TO THE RELEVANT HARMONISED SAFETY STANDARDS USED OR REFERENCES TO THE OTHER TECHNICAL SPECIFICATIONS IN RELATION TO WHICH CONFORMITY IS DECLARED:

EN 286-1:1994/A2:2005 - Simple unfired pressure vessels designed to contain air or nitrogen
- Part 1: Pressure vessels for general purposes

EN ISO 12100:2010, EN 1012-1:2010 - Safety of machinery — General principles for design — Risk assessment and risk reduction - Compressors and vacuum pumps - Safety requirements
- Part 1: Air compressors

EN 60204-1:2018 - Safety of machinery - Electrical equipment of machines - Part 1: General requirements

EN IEC 61000-6-1:2019 - EMC immunity applied to electrical equipment intended for use in residential, commercial, public and light-industrial locations. Immunity requirements in the frequency range 0-400 GHz

EN IEC 61000-6-3:2021 - Generic standards - Emission standard for equipment in residential environments

EN IEC 6100-3-2:2019+A1:2021 - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)

EN 61000-3-3:2013+A1:2019+A2:2021 - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection

Statement of Declaration

We the importer and authorised representative of the product described confirm conformity within the provisions of applicable regulations and directives listed within this document.

Signed on Behalf of Genpower Ltd

Place of Issue: Genpower Ltd

Signatory Name: Roland Llewellyn

Position: Managing Director:

R J Llewellyn



12. CONTACT DETAILS

| | | |
|------|----------------|--|
| 12.0 | POSTAL ADDRESS | Genpower Ltd, Isaac Way, London Road, Pembroke Dock, Pembrokeshire. SA72 4RW. UK. |
| 12.1 | TELEPHONE | +44(0) 1646 687880 |
| 12.2 | FAX | +44(0) 1646 686198 |
| 12.3 | SUPPORT | aftersales@genpower.co.uk |
| 12.4 | WEBSITE | www.hyundaipowerproducts.co.uk |

13. WARRANTY

- 13.0 Proof of purchase will be required before you make a warranty claim. Full warranty terms and conditions can be found on the HYUNDAI POWER PRODUCTS website:
www.hyundaipowerproducts.co.uk

14. MANUAL UPDATES

- 15.0 Our manuals are constantly being reviewed and updated. However if you find an error, omission or something you find unclear, please contact your dealer for assistance.
- 15.1 Our latest manuals are also placed online.

HYUNDAI

POWER PRODUCTS



GENUINE PRODUCT OF
HYUNDAI CORPORATION

For Inquiries, Please Contact:
GENPOWER LTD
Isaac Way, London Road,
Pembroke Dock, UK, SA72 4RW.
T: +44 (0) 1646 687 880
E: info@hyundaipowerproducts.co.uk
www.hyundaipowerproducts.co.uk