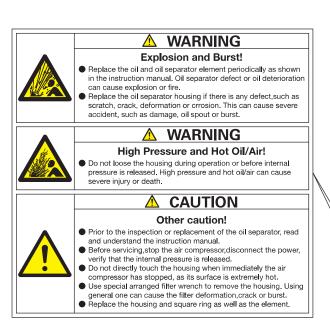
1. SAFETY PRECAUTIONS

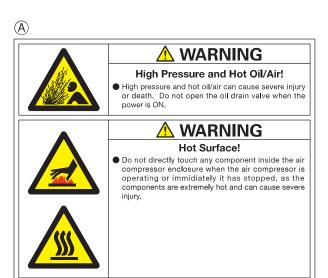
1.1 SAFETY PRECAUTIONS

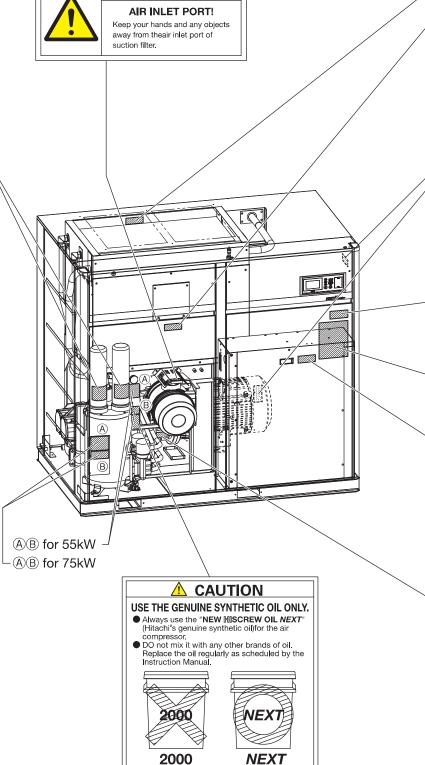
Prior to use, it is imperative to carefully read and fully understand the following warnings and instructions for proper use. To use this air compressor safely, these warnings and instructions are imperative. Be sure to observe them.

These warnings and instructions are attached to the air compressor as shown in the figure below.

OSP-55/75VAN2 VPLUS







WARNING

 $^{\odot}$



⚠ WARNING

High Pressure and Hot Oil/Air!

- Before servicing the air compressor, stop it, close the discharge stop valve, release the internal pressure, disconnect the power and verify both the pressure in the operation panel and the oil separator tank pressure gauge indicate 0MPa.
- pressure gauge indicate 0MPa.

 Use caution at all times, when the air compressor is powered. The air compressor may be capable of restarting without hitting the START button.

⚠ WARNING



Rotating Parts!

- Keep hands and rods, etc. away from, the rotating parts, such as pulleys, belts, couplings, cooling fans etc..

 Use caution at all times, when air compressor
- is powered. The air compressor may be capable of restarting without hitting the START
- DO NOT operate the air compressor without enclosures.

WARNING



STRONG MAGNETIC FIELD

The motor rotor contains a powerful magnetic field.

This field can affect the operation of digital devices such as watches, mobile phones etc.

Assembly or handling of the rotor should not be attempted by personnel with cardiac pacemakers, defibrillators or other implanted electronic medical devices.

CAUTION



Replenishment main motor grease MOTOR GREASE notice appears on the touch panel and count-down starts 200 hours before shutdown Before shutdown, apply grease and press the Cancel

button on the touch panel for more than seven (7) second. The time until shutdown is reset and monitor display appears.

WARNING



Electric Shock Hazard!

- 10 minutes before servicing or wiring the air compressor, disconnect the power to prevent an electric shock that can lead severe injury or death. Show the notice stating "Keep switch off" etc. around the power supply.
- Do not allow any unlicensed person to wire the air compressor. Always use a licensed electrician.
- Ground the air compressor.

WARNING

Do Not Breathe Air!

- Discharge air can contain Carbon Monoxide and other contaminants. Breathing the air can cause severe injury or
- Using compressed air insufficient ventilating area, such as in tunnel, also can cause severe injury or death.



WARNING

High Pressure and Hot Oil/Air!

- High pressure and hot oil/air can cause severe injury or death. Pressurized oil/air can blow out of air relief valve or oil filling port etc. at incredibly high velocities.
- Before servicing the air compressor, stop it, disconnect the power, and release the internal pressure before removing the parts, such as filter, plug, fitting or cover.



WARNING

Flamable and Burst!

- Keep a container of the flammable hazards, such as solvents, away from the air compressor. It can cause explosion.

 DO NOT use any oil other than "NEW HISCREW OIL NEXT".
- Replace the oil and oil separator element periodically as shown in the instruction manual. Oil separator defect or oil deterioration can cause explosion or fire.



WARNING

Rotating Parts!

- Keep hands and rods, etc. away from, the rotating parts, such as pulleys, belts, couplings, cooling fans etc..
- Use caution at all times, when air compressor is powered. The air compressor may be capable of restarting without hitting the START button.



WARNING

Electric Shock Hazard!

- 10 minutes before servicing or wiring the air compressor, disconnect the power to prevent an electric shock that can lead severe injury or death. Show the notice stating "Keep switch off" etc. around the power supply.
- Do not allow any unlicensed person to wire the air compressor.
- Always use a licensed electrician. Ground the air compressor.



CAUTION

Precaution against Fire!

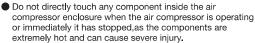


- Do not use fire nearby it, otherwise a spark may enter the air compressor and burn it internally.
- Do not remove any compressor protective relays. Also do not make a modification of the control circuit that may result in impairing the protective relay's function. Remember that the loss of the protective relay's function may cause serious damage.
- Install an earth leakage circuit breaker.
- Ground the air compressor.



CAUTION

Hot Surface!









Rotating Parts!

Keep hands and rods, etc. away from the coupling. The air compressor is capable of restarting without hitting the START button.

OSP-55/75MAN2 Mtype



WARNING

Explosion and Burst!

- Replace the oil and oil separator element periodically as shown in the instruction manual. Oil separator defect or oil deterioration
- can cause explosion or fire. Replace the oil separator housing if there is any defect, such as scratch, crack, deformation or crrosion. This can cause severe accident, such as damage, oil spout or burst.



WARNING

High Pressure and Hot Oil/Air!

Do not loose the housing during operation or before internal pressure is released. High pressure and hot oil/air can cause severe injury or death.

CAUTION

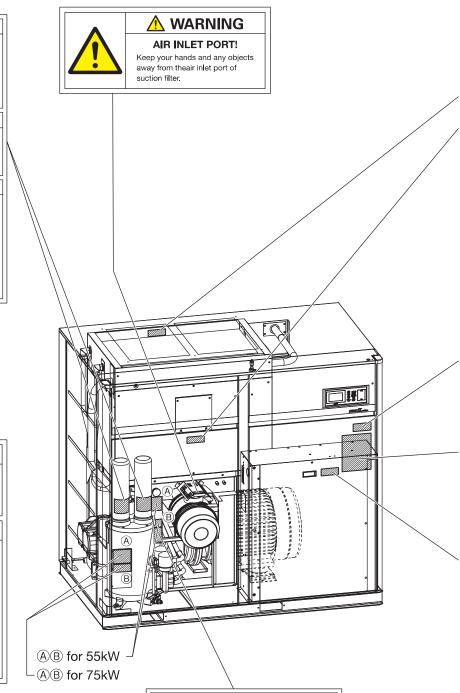
Other caution!



- Prior to the inspection or replacement of the oil separator, read
- and understand the instruction manual.

 Before servicing, stop the air compressor, disconnect the power,
- verify that the internal pressure is released.

 Do not directly touch the housing when immediately the air compressor has stopped, as its surface is extremely hot.
- Use special arranged filter wrench to remove the housing. Using general one can cause the filter deformation, crack or burst.
- Replace the housing and square ring as well as the element.



(A)



♠ WARNING

High Pressure and Hot Oil/Air!

 High pressure and hot oil/air can cause severe injury or death. Do not open the oil drain valve when the power is ON.



WARNING

Hot Surface!

 Do not directly touch any component inside the air compressor enclosure when the air compressor is operating or immidiately it has stopped, as the components are extremely hot and can cause severe





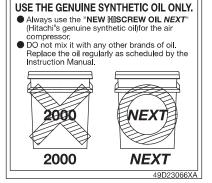




▲ WARNING

High Pressure and Hot Oil/Air!

- Before servicing the air compressor, stop it, close the discharge stop valve release the internal pressure. disconnect the power and verify both the pressure in the operation panel and the oil separator tank
- pressure gauge indicate 0MPa.
 Use caution at all times, when the air compressor is powered. The air compressor may be capable of restarting without hitting the START button.



CAUTION

⚠ WARNING



Rotating Parts!

- Keep hands and rods, etc. away from, the rotating parts, such as pulleys, belts, couplings, cooling fans etc..

 Use caution at all times, when air compressor
- is powered. The air compressor may be capable of restarting without hitting the START
- DO NOT operate the air compressor without enclosures



CAUTION



Replenishment main motor grease

MOTOR GREASE notice appears on the touch panel and count-down starts 200 hours before shutdown Before shutdown, apply grease and press the Cancel button on the touch panel for more than seven (7) second. The time until shutdown is reset and monitor display appears.





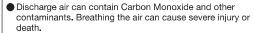
Electric Shock Hazard!

- 10 minutes before servicing or wiring the air compressor. disconnect the power to prevent an electric shock that can lead severe injury or death. Show the notice stating "Keep switch off" etc. around the power supply.
- Do not allow any unlicensed person to wire the air compressor. Always use a licensed electrician.
- Ground the air compressor.



WARNING

Do Not Breathe Air!



 Using compressed air insufficient ventilating area, such as in tunnel, also can cause severe injury or death.



WARNING

High Pressure and Hot Oil/Air!

- High pressure and hot oil/air can cause severe injury or death. Pressurized oil/air can blow out of air relief valve or oil filling port etc. at incredibly high velocities.
- Before servicing the air compressor, stop it, disconnect the power, and release the internal pressure before removing the parts, such as filter, plug, fitting or cover.



WARNING

Flamable and Burst!

- Keep a container of the flammable hazards, such as solvents, away from the air compressor. It can cause explosion.

 DO NOT use any oil other than "NEW HISCREW OIL NEXT".
- Replace the oil and oil separator element periodically as shown in the instruction manual. Oil separator defect or oil deterioration can cause explosion or fire.



WARNING

Rotating Parts!

- Keep hands and rods, etc. away from, the rotating parts, such as pulleys, belts, couplings, cooling fans etc..
- Use caution at all times, when air compressor is powered. The air compressor may be capable of restarting without hitting the START button.



WARNING

Electric Shock Hazard!

- 10 minutes before servicing or wiring the air compressor, disconnect the power to prevent an electric shock that can lead severe injury or death. Show the notice stating "Keep switch off" etc. around the power supply.
- Do not allow any unlicensed person to wire the air compressor.
- Always use a licensed electrician.
- Ground the air compressor.



CAUTION

Precaution against Fire!

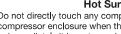


- Do not use fire nearby it, otherwise a spark may enter the air compressor and burn it internally.
- Do not remove any compressor protective relays. Also do not make a modification of the control circuit that may result in impairing the protective relay's function. Remember that the loss of the protective relay's function may cause serious damage.
- Install an earth leakage circuit breaker.
 Ground the air compressor.



CAUTION

Hot Surface!





Do not directly touch any component inside the air compressor enclosure when the air compressor is operating or immediately it has stopped, as the components are extremely hot and can cause severe injury.

1.2 Caution for the DCBL (main) motor **WPLUS**

DCBL motor is the permanent magnetic motor.

WARNING

Contact the local HITACHI distributor/master dealer or representative office for the repair or disassembly. Repair and disassembly work must be performed by licensed technician to avoid **the electric shock, injury and/or fire.**

Keep the magnetic rotor from a person with electronic medical equipment, such as a cardiac pacemaker. The medical equipment may malfunction, which may lead to a fatal danger to the person.

Do not connect the motor with anything other than a dedicated controller to avoid the electric shock, injury and/or fire.

CAUTION

A very strong magnetic force of attraction or repelling is generated between the magnetic rotor and the other magnet rotors, magnets, iron pieces or iron tools.

Be careful extremely when handling the magnetic rotor. You may get your hand caught in during rotor assembly work or lose a balance because of attraction or repelling force, which may cause an accident and/or injury.

Magnets attract iron chips or other metal particles easily. Be very careful for handling.

Using the magnetic rotor with particles may cause a failure.

Do not bring the magnetic rotor close to an electronic device, such as PC board, LCD monitor. **It may cause a failure of electric device.**

Do not bring the magnetic rotor to a magnetic tape, computer diskette, prepaid card, ticket, electronic clock, cathode-ray tube, etc. **Electronic record may be damaged or become unusable due to magnetization.**

Disposal

Dispose of DCBL (main) motor as general industrial waste. Before disposing of the magnetic rotor, heat the rotor to 500°C or higher with a gas burner or heating furnace for thermal demagnetization.