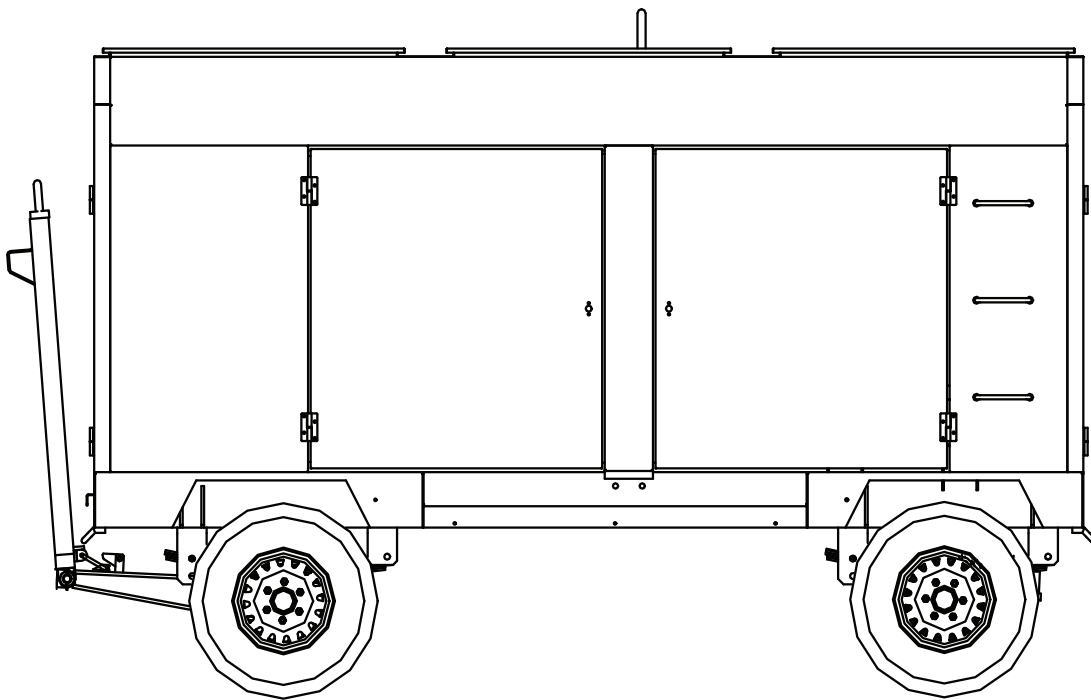


# USER MANUAL



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CALIFORNIA PROPOSITION



65 WARNING



WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# TABLE OF CONTENTS

Table of Contents .....	3
Preface .....	4
Structure and Performance Parameters .....	5
Specifications .....	6-7
Operating Instruction – Panel .....	8-9
Operating Instructions .....	10-18
Setup and Transport .....	19-20
Maintenance and Service .....	21

# PREFACE

This manual provides instructions and guidance of the detailed operation and daily maintenance of the Scout Mobile Air Compressor for peak performance.

- Read this manual carefully to understand the safe operation and management of the air compressor.

## **CAUTION:**

**Abide by the safety notices in this manual to prevent a possibility of serious injury or death.**

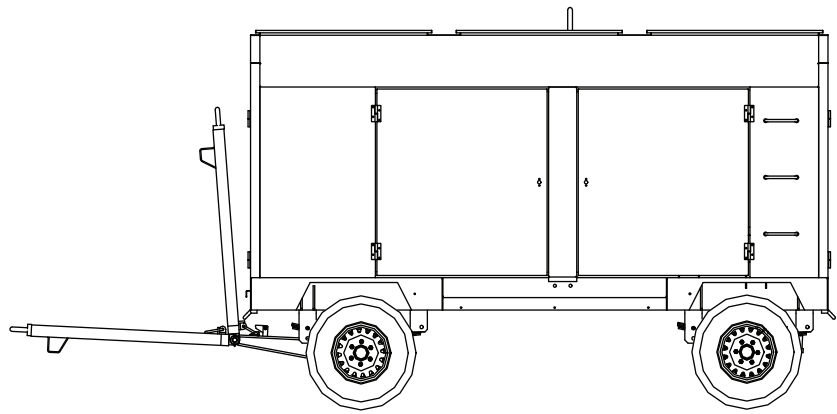
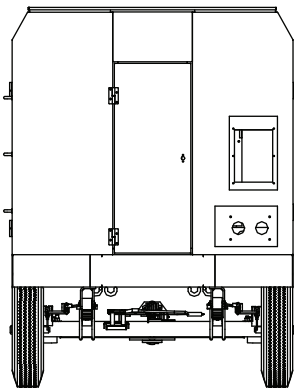
For safety and maintenance of the diesel unit, refer to its attached user manual.

Keep this manual on hand for the operator or service technician.

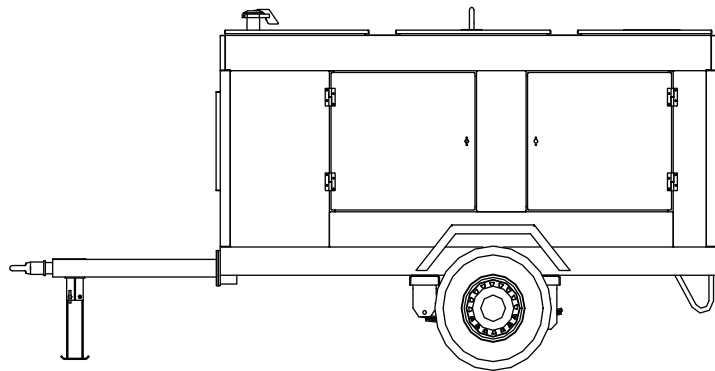
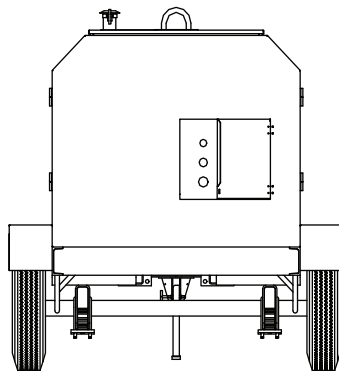
- **If this user manual is lost or damaged, contact the manufacturer for a replacement.**
- **Keep the manual with the machine at all time.**
- **There may be variations in this manual due to product improvement. If questions, contact the manufacturer.**
- **Have the model number and manufacturing code available when contacting the manufacturer.**

# STRUCTURE AND PERFORMANCE PARAMETERS

## OUTSIDE VIEW:



**UNIT**



**UNIT**

# UNIT NAME – SPECIFICATIONS

## COMPRESSOR PERFORMANCE

Design	Twin Screw
Max Working Pressure	116 PSI
Air Displacement	700 CFM
Transmission Type	Coupling
Oil Content in Discharge Air	99.9% Oil Free
Discharge Fittings	1x2”MPT - 1x1” MPT

## COOLING

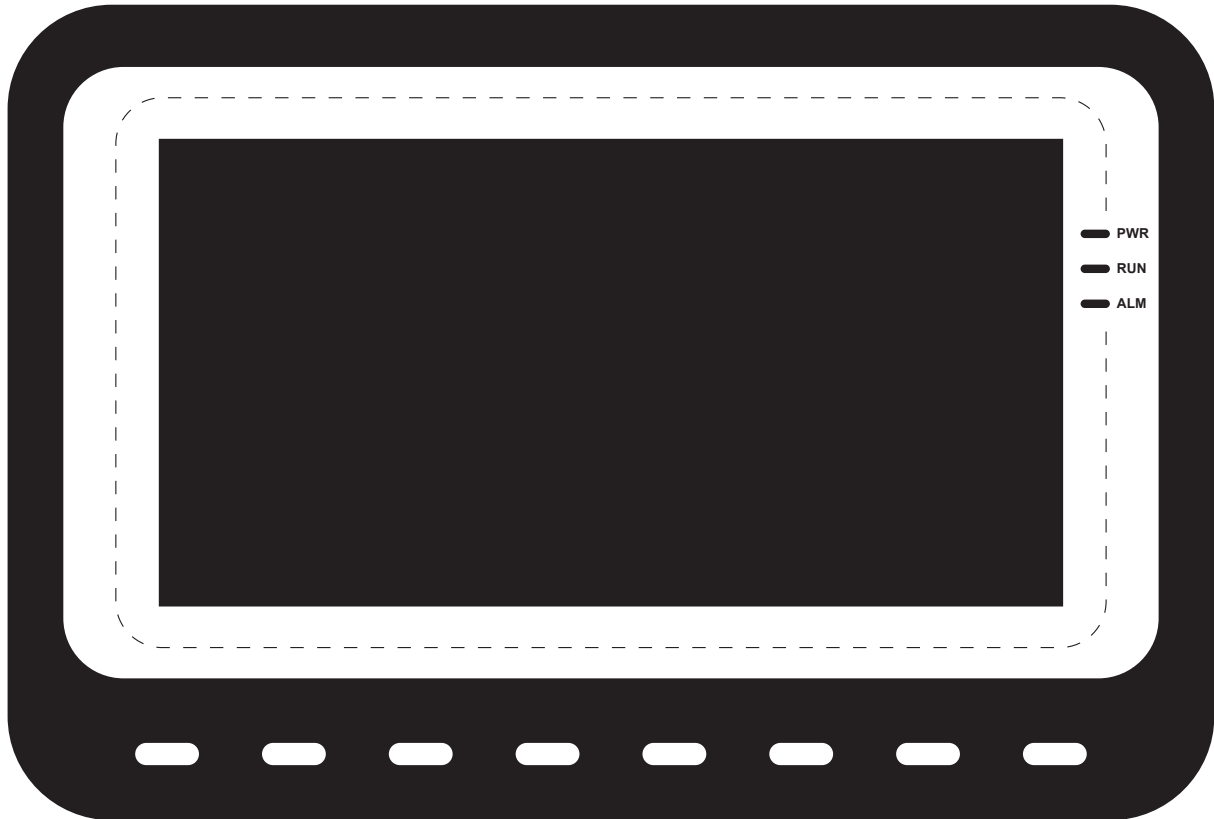
Cooling Method	Air-Cooled
Cooling Fans	2x2HP / 1500W ea
Cooling Airflow	7946 CFM
Cooling Fans Speed	1650 RPM
Discharge Temperature	+59°F / +15°C
Total Lube Oil Capacity	21.1 US Gal / 80L

# UNIT NAME – SPECIFICATIONS

ELECTRICAL	
Supply Voltage	480VAC / 60hz / 3-PH
Motor Power	110kW - 150HP
Motor Speed	3000 RPM
Service Factor	1.2
Motor Protection Class	IP55
Motor Insulation Class	F
Motor Cooling Method	Air-Cooled
Starting Method	Variable Frequency Start
Electric Connection	Terminal Block

DIMENSIONS	
Temperature Operating Range	-4°F / 113°F - (-20°C / 45°C)
Operating Altitude	6560ft MAX
Overall Dimensions	L 114" x W 66.5" x H 83.5" (2880mm x 1690mm x 2120mm)
Weight	5180 LBS (2350 kg)

# OPERATING INSTRUCTIONS – PANEL



1	Start
2	Stop
3	Load / Unload Button / Confirm Button
4	Down / Decrease
5	Up / Increase
6	Shift / Enter
7	Return / Reset

# OPERATING INSTRUCTIONS – PANEL

## Steps to Start The Unit

1. When the air compressor is in standby mode, press the “Start” button to start the compressor
2. In linkage mode as the master unit with communication address set to 1, pressing this button will start the compressor and activate the linkage control function.

## Steps to Shut Down The Unit

1. When the air compressor is running, press this button to stop it.
2. In linkage mode as the master unit, pressing the stop button will stop the compressor and deactivate the linkage control function.
3. When the device is in stop status, press and hold the stop button to display the software version information.

## Load / Unload Button / Confirm Button

1. Functions as the load / unload button when the compressor is running.
2. In setting mode, press this button to confirm and save input data.

## Down / Decrease

1. Scroll down when viewing parameters.
2. Decrease the value of the flashing digit when editing.

## Up / Increase

1. Scroll up when viewing parameters.
2. Increase the value of the flashing digit when editing.

## Shift / Enter

1. Move cursor to next digit when editing.
2. Enter sub-menu or setting mode.

## Return / Reset

1. Exit setting mode.
2. Return to previous menu.
3. In case of fault shutdown, Hold for 5 sec. to reset fault.

# OPERATING INSTRUCTIONS

## Indicator Lights

- **Power:** Lights up when the controller is powered.
- **Run:** Lights up when the compressor motor is running.
- **Fault:** Flashes during warning; Stays on during fault.

## Status Display & Operation

- **After Power-ON:** The following screen is displayed.

Welcome  
Screw Air Compressor

### Power-On Screen

- **After 5 Seconds:** The main interface is displayed.

Pressure: 0.53MPa  
Equipment Stopped 0s

### Main Screen

- **Press the Enter Key:** The main screen switches to temperature display.

Temperature: 88°C  
Equipment Stopped 0s

### Temperature Display

- **Press the Down Key:** To show the following menu selection interface.

Operating Parameters  
User Parameters

### Level 1 Menu Screen

Manufacturer Parameters  
Adjust parameters

# OPERATING INSTRUCTIONS

## Operating Parameters / Menu

Press the "down key" to move the black scroll bar to the "operation parameters" menu, and then press the enter key to switch to the main three-phase current display screen:

Main motor: (A) A-80.1A  
B-79.9A C-80.1A

Press the "Down" key to view fan current, total running hours, total load hours, and other operating parameters.

Press the "Return" key to go back to the previous menu or main screen. If no operation is performed, the system will automatically return to the main screen after 60 seconds.

## User Parameters – View & Modify

In the first level menu, press the "Up" or "Down" key to move the black scroll bar to the "User Parameters" menu, and then press the "Enter" key to switch to the following menu:

Loading pressure:  
00.60MP a

Next User  
Parameter  
"Down" Key to Switch

Unloading pressure  
00.80MP a

You can view parameters such as "Unload Pressure, Fan Start Temperature, Fan Stop Temperature", etc.

On the "User Parameters" screen (e.g., Load Pressure), press "Enter". If the user password has not yet been verified, the system will switch to the "Password Verification Screen":

Enter password: \*\*\*\*\*

Once this screen appears, a cursor blinks at the first digit.

- Use the "Increase / Decrease" keys to set the first digit of the password.
- Press the "Shift" key to move the cursor to the next digit.
- Repeat the steps to enter all four digits.
- Finally, press "Confirm". If the password is correct, the system switches to the following screen:

# OPERATING INSTRUCTIONS

Loading pressure:  
00.60MP a

On the screen shown above, press the **\*\*Shift\*\*** key and the first digit of the load pressure will start flashing.

- Use the “Increase” or “Decrease” key to adjust the flashing digit to the target value.
- Press the “Shift” key again to move the cursor to the next digit, then repeat the adjustment process until all digits are set.
- After completing the settings, press the “Confirm” key to save the user-defined data. Once the parameter is successfully saved, the controller will emit a short beep as confirmation.

# OPERATING INSTRUCTIONS

User Parameter and Functions		
USER PARAMETER	INITIAL VALUE	FUNCTIONS
Load Pressure	***.**MPa	Load pressure value. When set to auto run, after startup, if pressure falls below this value, the controller commands the compressor to load.
Unload Pressure	***.**MPa	After startup, if pressure exceeds this value, the controller commands the compressor to unload.
Fan Temperature (Start)	0080°C	When exhaust temperature exceeds this value, the fan starts running.
Fan Temperature (Stop)	0070°C	When exhaust temperature falls below this value, the fan stops running.
Main Motor Delay Time	0008s	Sets the startup delay time of the main motor. During this time, overload protection is disabled to avoid startup inrush current.
Fan Delay Time	0006s	Sets the startup delay time of the fan. During this time, overload protection is disabled to avoid startup inrush current.
Star-delta Delay Time	0006s	Delay time for star-delta reduced voltage start.
Load Delay Time	0002s	Delay loading time after completion of star-delta reduced voltage startup.
Unload Delay Time	0600s	Maximum continuous unload running time allowed for the compressor. Beyond this, the unit will stop automatically.
Stop Delay Time	0010s	When stopping, the compressor switches to unload running. After this delay time, the unit stops.
Restart Delay Time	0100s	After stop, long unload stop, or fault shutdown, the compressor can only restart after this delay time.
Start/Stop Mode	Local / Remote	Local mode: remote switch cannot control the compressor. Remote mode: both local and remote switches can start/stop the compressor.
Load Mode	Auto / Manual	In manual mode, load / unload can only be operated by keys.
Communication Mode	Disable / PC / Link	Disable: communication not active. PC: MODBUS protocol with external devices. Link: Multiple compressors networked operation.

# OPERATING INSTRUCTIONS

User Parameter and Functions		
USER PARAMETER	INITIAL VALUE	FUNCTIONS
Communication Address	0016	Address setting for link or host communication. Range: 0–16 (link), 0–99 (host).
Link Status	Master / Slave	In linked operation, unit can act as Master or Slave. Master controls Slave start/stop by supply pressure.
Rotation Time	0099h	In linked operation, within the allowed pressure range, the machine will work for the set time and then switch to standby (rotation rest).
Linked Machine Number	0000	Number of machines controlled by the master unit during linked operation.
Linked Load Pressure	**.**MPa	During linked operation, when the master unit pressure is lower than this set value, one machine from the linked network will load or start.
Linked Unload Pressure	**.**MPa	During linked operation, when the master unit pressure is higher than this set value, one machine from the linked network will unload or stop.
Linked Delay Time	0050s	During linked operation, the waiting time before the master unit sends a second consecutive control command.
Oil Filter Time Reset	0000h	Cumulative usage time of the oil filter; reset to zero after replacing with a new oil filter
Oil Filter Separator Time Reset	0000h	Cumulative usage time of the oil separator; reset to zero after replacement.
Air Filter Time Reset	0000h	Cumulative usage time of the air filter; reset to zero after replacement.
Lubricating Oil Time Reset	0000h	Cumulative usage time of the lubricating oil; reset to zero after replacement.
Grease Time Reset	0000h	Cumulative usage time of the lubricating oil; reset to zero after replacement.
Belt Time Reset	0000h	Cumulative usage time of the lubricating oil; reset to zero after replacement.
Oil Filter Preset Time	****h	When the cumulative usage time of the oil separator exceeds this value, a warning is triggered; if set to "0000," the warning function is disabled.

# OPERATING INSTRUCTIONS

User Parameter and Functions		
USER PARAMETER	INITIAL VALUE	FUNCTIONS
Oil Separator Preset Time	****h	When the cumulative usage time of the oil separator exceeds this value, a warning is triggered; if set to "0000," the warning function is disabled.
Air Filter Preset Time	****h	When the cumulative usage time of the oil separator exceeds this value, a warning is triggered; if set to "0000," the warning function is disabled.
Lubricating Oil Preset Time	****h	When the accumulated usage time of the lubrication oil exceeds this set value, a warning will be triggered. If set to "0000," the lubricating oil usage time warning will not be activated.
Grease Preset Time	****h	When the accumulated usage time of the lubrication oil exceeds this set value, a warning will be triggered. If set to "0000," the lubricating oil usage time warning will not be activated.
Belt Preset Time	****h	When the accumulated usage time of the lubrication oil exceeds this set value, a warning will be triggered. If set to "0000," the lubricating oil usage time warning will not be activated.
Language – Chinese / English	English	When set to Chinese, the interface displays in Chinese; When set to English, the interface displays in English.
Change User Password	****	After verifying authorization, the user or manufacturer can change the user password here.

# OPERATING INSTRUCTIONS

## Inspection Before Starting:

**CAUTION:** 

- Inspect before starting for any abnormalities. Repair first, then start.
- A fire could result within the unit if pre-start inspection is ignored and abnormalities are detected before starting the unit.

### Check the lubricating oil level in the air – oil separator tank

**CAUTION:** 

- Be sure the unit is stopped before refilling the engine oil. When the pressure meter indicates 0Mpa and there is no residual pressure inside, take off the cap slowly.
- Possible residual pressure from the engine oil and high-temperature condensed air could cause serious burns or injuries to the operator.

**Please inspect the oil level only after the unit has been stopped for a minimum of 10 minutes. Add engine oil if the indicator is in the low position.**

### Drain out condensed water

**CAUTION:** 

- Before starting the unit, drain out the condensed water slowly using the drain valve.
- Draining out the condensed water while the unit is running could result in serious burns or injuries to the operator

### IMPORTANT:

- Ignoring to drain out the condensed water, will shorten the lifetime of the engine oil, and will possibly burn the bearing.
- Slowly open the drain valve at the bottom of the tank, to drain the condensed water.
- Pay attention and be careful not to open the drain valve fully to let the engine oil out.
- Close the drain valve after the water is out.
- Drain the condensed water into a special oil tray and dispose of it according to local/federal regulations.

# OPERATING INSTRUCTIONS

## Inspect the air filter

### IMPORTANT:

- Ensure the air filter is without a smudge, hole, crack, and/or is blocked. A defective air filter could possibly damage the parts and/or the engine of the unit. Clean the filter frequently to prolong the life of the motor and compressor.
- If the air filter indicator is red on the unit, take it out and clean it.
- Replace if the filter can not be cleaned.

## Inspect each wiring

### CAUTION:

- Bad or wrong wiring connections could possibly lead to a fatal injury.
- To prevent the unit from short circuiting, inspect the unit for any loose wire connections or breakage.

## Inspect each tube

Check for any loose tube connections, scratches on the tubes, or any air or oil leakage.

## Running:

### CAUTION:

- Do not run if the compressed air vent valve disconnects from the air supply pipe. The release of high-pressure air may cause objects nearby to be blown to different locations and/or bodily injury.
- When the unit is running, add a silencer to the vent and use earplugs for protection against a hearing impairment.

## Starting Steps

1. Complete close air supply ball valve.
2. Put load in startup position.
3. Insert startup key, judge whether preheat or not according to actual condition. If no need, rotate key clockwise to bottom position, then start unit.
4. If any abnormal noise or shake, or leakage, please stop immediately to inspect.

# OPERATING INSTRUCTIONS

## Running

### CAUTION:

- The control unit of the compressor is set and adjusted before delivery. Contact the manufacturer if the pressure needs to be adjusted. Adjusting the pressure controls without guidance from the manufacturer could lead to a fatal accident.
- Do not touch any parts of the air compressor when running - compressor, gas tank, vent pipe, etc...
- Do not inspect the electrical components of the unit without a professional technician to prevent harm to the operator.
- Check the oil pressure while running by the indicator position.

### Notice during running

- STOP the unit immediately if any abnormal noises or if the unit is shaking.
- Do not loosen the tubes, plugs, or valves due to pressure build up.
- Do not put hands or tools inside rotating parts when running to prevent injury.
- Do not put non-compressor parts into the compressor, these parts will lead to abnormal noise and damage the compressor parts. Light materials will easily get sucked into the unit and damage the air supply tube.
- Close all doors of the compressor when running to prolong the life of the air filter.

### Inspect safety valve

#### NOTICE:

- Do not close the air-out vent of the safety valve when inspecting. High pressure condensed air exits at this location.

### Stop running

### CAUTION:

- Normal stop steps: first, push load valve to no-load position, after air-out pressure is down to below 0.4Mpa, rotate the key again to stop the unit.
- Prohibit the compressor to restart if air-out pressure is not down to 0Mpa, otherwise will shorten motor lifetime.

**Remarks:** It is normal if there is light smoke from the entrance of the air filter when it stops. Be sure to close the air supply valve when it stops, or set the check valve in-air supply pipe to keep pressure in the pipe after stopping.

# SETUP AND TRANSPORT

## Installation and Transportation:

### Installation place and condition

**CAUTION:** 

- Unit should be installed on level ground
- If on a sloped site, the angle of inclination should be less than 15 degrees.

### Working Environment

1. Ambient temperature: -20°C~40°C
2. Humidity: no more than 80%
3. Altitude: below 3000m (the performance and actual power unit will be affected if too high)
4. Installed in location where well ventilated, low temperature and dry.
5. For parallel operation of two or more units, keep sufficient spacing to prevent discharge air from other machines being drawn into the intake.
6. Install in clean location.
7. Leave enough space around the unit for maintenance.

### Transportation

**CAUTION:** 

- When lifting or lowering the machine, use built-in lifting device.
- Prohibit staying under unit after lift up.
- The unit's hoisting apparatus is only for lifting temporarily, not for transportation. Secure and fasten the unit using an appropriate mode of transporting long distance.
- Do not lift up the unit when running. Possible damage to the unit or its parts or a fatal accident could occur.

### Hoisting

1. Before hoisting, check the hanger for cracks, loose bolts, or any defects.
2. Make sure the lift hook is on the center part of the unit cover and brace by rope to protect from scratching the unit.
3. Make sure the area is cleared of persons or materials before lifting up the unit.
4. Choose an appropriate crane or truck with correct weight and dimensions.
5. Operators must be qualified in order to drive a crane.

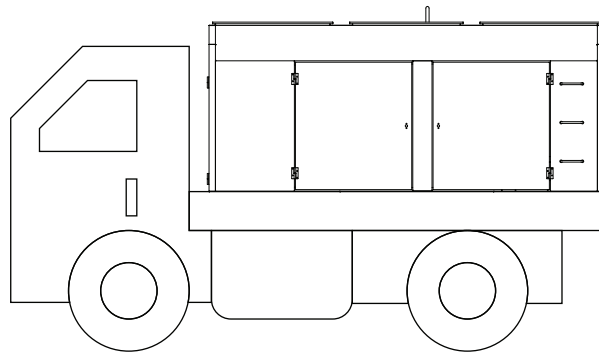
# SETUP AND TRANSPORT

## Loading

### CAUTION:

- Inspect the unit before loading for any repairs needed.
- Use a suitable vehicle for the weight of the compressor.
- Secure the unit and keep necessary tools for transporting on hand if needed.
- Follow the above guidelines to prevent injury.

## Fixing after loading



## Unloading

When unloading, note that the unit should be placed on level ground and ground suitable to bear the weight of the unit.

# MAINTENANCE AND SERVICE

## Maintenance and Service:

### Matters requiring frequent periodic inspection

This manual only indicates inspection interval time under normal running. If working in a harsh environment, shorten the inspection interval time.

### CAUTION:

- Stop and turn the unit off before inspection. If the need to open the unit, be aware of any build up of pressure that could cause bodily harm. When inspecting, place a sign on the unit, such as, “Being Serviced” at a visible location.
- Use suitable tools to inspect to prevent an unexpected accident.

### NOTICE:

- Replace the engine oil at the indicated time. If dirty before the indicated time, replace the oil in advance. All engine oil should be replaced with the indicated oil.
- Carry out the following periodic inspection:
  1. Inspect and replace engine oil of the compressor
  2. Replace of oil separator
- Do not mix different brands of engine oil to prevent lower performance.

### NOTICE:

- The waste liquid is a hazardous substance. Do not drain into the ground, river, lake, or ocean polluting the environment.
- Collect the waste liquid by draining.
- Dispose of the liquid and filter per local/federal regulations.

### IMPORTANT:

- Use only the indicated engine oil for the compressor.
- Use only the original parts from the manufacturer.
- Defects of the unit caused from non-appointed parts will not be covered under the warranty.