



INSTRUCTION MANUAL

■ OIL-FREE SCROLL AIR COMPRESSOR

SL-140EB-US

SL-165E-US

SL-1651E-US

Thank you for purchasing our Oil-free Scroll air compressor.

- Before operation, be sure to read this instruction manual thoroughly for safe and efficient use for a long operating lifetime.
- After reading it, store in a convenient place for immediate and future reading.

Before use, be sure to fill in the blank spaces below for future repair and after service.

MODEL	
SERIAL No.	
Purchased from	
Date of purchase	
Date of use	

Important information and Safety precautions

▪ Important information

Read all important information and safety precautions before use. The operator shall be fully knowledgeable of the requirements stated within this instruction manual, including important warnings, cautions and operation.

Read manual before performing any maintenance.



Keep this booklet in an appropriate place for immediate reference.

▪ Indications of warnings and cautions

	WARNING	May cause injury or death.
	CAUTION	May result in injury or property damage.

▪ Examples of warnings and cautions

	May cause electric shock.
	Do not touch.
	Must be grounded.

* Supplier is not responsible for any injuries or damages caused by disregard of warnings, operating instruction specifications or maintenance schedules.

Important information and Safety precautions

- Safety precautions

WARNING



Install in a safe area.

To prevent a fire or explosion, install in an area free of flammable gases or organic solvents.



Never install outdoors.

To prevent fire or electric shock, never install outdoors.



Turn off the main electric source.

To prevent electric shock or serious injury, always turn off the main electric source before inspecting or wiring the unit.



Ask a qualified electrician.

Only a qualified electrician should perform maintenance on the unit.



Be sure to ground.

Unit must be grounded to prevent electric shock.



Never use to compress anything other than air.

Unit must only be used to compress air.



Do not use with respiratory equipment, which could cause serious injury or death.

Important information and Safety precautions

WARNING



Use genuine parts.

Be sure to use our genuine parts during maintenance to prevent unit failure or shortened lifespan.



Do not touch.

To prevent serious injuries, never attempt to touch the fan, pulley or belts while unit is operating.

Serious injury including entanglement of fingers or hands can occur.



Release pressure.

Before conducting any maintenance or inspection, release pressure from the air receiver.



Conduct maintenance and inspection according to maintenance standards to prevent failure of the unit.

Important information-Safety precautions

CAUTION



Use at ambient temperature of 36°F to 104°F.

Using less than 36°F will freeze the drain and cause failure.

Using over 104°F will damage or shorten the life of the unit.



Use in an area free of dirt and dust.

Failure to do so may result in equipment failure.



Use in an area free of corrosive gas to prevent unit failure.



Ask specialist to perform repairs to prevent unit failure and or shortened lifespan.



Do not touch.

To prevent serious injuries, never attempt to touch the fan, pulley or belts while unit is operating.



Never alter the compressor.

Fire and or electric shock may occur.

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Before use

- **Inspect the product to be sure you have the model you ordered.**
 - Check for any deformities or damages which occurred during shipment. Any shipping damages must be immediately filed with the freight carrier.
 - The following accessories are included:
 - Pump instruction manual
 - Attention sheet
 - Elbow 3/8" x 1/2"

Installation

▪ Precautions about installation



WARNING

Do not use in an area which is exposed to rain, steam or high humidity.

High humidity can cause electric shock or fire.

Do not install in an area with corrosive gas (ammonia, acid, salinity, ozone gas and sulfur dioxide) preventing a shorter lifespan of the unit.



WARNING

To prevent a fire or explosion, install in an area free of flammable gases or organic solvents.



Ambient temperature

Use at ambient temperatures of 36°F to 104°F.

Using at less than 36°F will cause failure or freezing.



CAUTION

Install this product on a flat, level floor to prevent vibration and noise, causing damage to the unit.



CAUTION

Make sure pump RPM and discharge pressure does not exceed limit of each pump to prevent failure.

Please confirm the operating range before operation.

Maintenance

The following maintenance is required at specific intervals. These intervals are based on conditions where the ambient temperature is around 86°F. If your location is warmer or running condition is more severe, maintain within a shorter period. During warmer conditions, shorten the period approximately 70% from our recommendation at every 9°F. If the operating hour is over 15 hours per day, please shorten 70% from our recommended maintenance period.

Standard maintenance period is not our warranty period.

▪ **Standard maintenance period**

- For 115psi models (SL-140EB, 165E and 1651E)

Maintenance is to be done according to operating hours, or period, whichever comes first.

Item	Details	Maintenance period (every hours or periods)						
		Daily	Every 400 Every 2 months	Every 2,500 yearly	Every 5,000 Every 1.5 years	Every 10,000 Every 3 years	Every 30,000 Every 9 years	
Noise, vibration	Check	○						
Air intake filter	Clean		○	●				Whenever it is dirty
O rings	Replace					●☆		Use genuine Parts
Air end fan FS-OS fin	Clean					○☆		Whenever it is Dirty
Tip & dust seals Insulation pipe Grease up	Replace					●☆		Use genuine Grease
Air end							●☆	

○ Inspect ● Replace ☆ Consult with distributor who sold it to you

* Air intake filters are not covered under the warranty. You may want to keep extra filters on hand.

Maintenance

- For 145psi model (SL-140EB and SL-1651E)

Maintenance is to be done according to operating hours, or period, whichever comes first.

Item	Detail	Maintenance period (every hours or period)						
		Daily	Every 400 Every 2 months	Every 2,500 yearly	Every 5,000 Every 1.5 years	Every 10,000 Every 3 years	Every 15,000 Every 4.5 years	
Noise, vibration		○						
Air intake filter	Clean		○	●				Whenever it is dirty
Check valve	Replace					●☆		Change as necessary
Air end fan FS-OS fin	Clean				○☆			Whenever it is dirty
Tip & dust seals Insulation pipe Grease up	Replace				●☆			Use genuine grease
Air end	Replace						●☆	

○ Inspect ● Replace ☆ Consult with distributor who sold it to you

* Air intake filters are not covered under the warranty. You may want to keep extra filters on hand.

Operating range

- Operating range

- 2HP

Item		SL-140EB	
Operating pressure	psi	115	145
Operating RPM	RPM	2200	1850
Operating temperature	°F	36 to 104	

- 3HP

Item		SL-140EB	
Operating pressure	psi	115	145
Operating RPM	RPM	3140	2770
Operating temperature	°F	36 to 104	

- 5HP

Item		SL-165E	SL-1651E
Operating pressure	psi	115	145
Operating RPM	RPM	3250	3150
Operating temperature	°F	36 to 104	

Warranty

■ Compressor Warranty and Remedies

- (a) **General.** Anest Iwata - Air Engineering warrants each Compressor System, Compressor Air-End, or Anest Iwata branded accessory (collectively “products”, individually each a “product”) to be free from defects in material and workmanship (“Defects”) at the date of shipment. EXCEPT AS SET FORTH BELOW, NO OTHER WARRANTY, WHETHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL EXIST IN CONNECTION WITH THE SALE OR USE OF SUCH PRODUCTS. TO THE EXTENT PERMITTED BY LAW ANY AND ALL IMPLIED WARRANTIES ARE EXCLUDED. All claims under this warranty must be made in writing and delivered to Anest Iwata Air Engineering, or such claim shall be barred. Upon timely receipt of a claim, Anest Iwata Air Engineering shall inspect the product claimed to have a defect, and Anest Iwata Air Engineering shall repair, or, at its option, replace, free of charge, any product which it determines to have had a defect at the time of shipment from Anest Iwata Air Engineering; provided, however, that if circumstances are such as to preclude the remedying of defect by repair or replacement, Anest Iwata Air Engineering shall, upon return of the product, refund to buyer any part of the purchase price of such products paid to Anest Iwata Air Engineering. Freight for the returning products to Anest Iwata Air Engineering for inspection shall be paid by buyer. The warranties and remedies herein are the sole and exclusive remedy for any breach of warranty or for any other claim based on any defect, or non-performance of the products, whether based upon contract, warranty or negligence.
- (b) **Initial period of warranty – Parts and Labor.** Anest Iwata Air Engineering warrants and represents all products shall be free from defects for the first twelve (12) months from the date of shipment by Anest Iwata Air Engineering, or five thousand (5,000) hours of use, whichever occurs first. During such warranty period, Anest Iwata Air Engineering shall be fully liable for all defects in the products (the “product defects”), i.e., all costs of repair or replacement, which may include “in and out” charges, so long as the products are located in the continental United States, and the products are reasonably located and accessible by service personnel for removal. “In and out” charges include the costs of removing a product from buyer’s equipment for repair or replacement.
- (c) **Additional period of Warranty – Parts Only (No Labor).** In addition to the above, Anest Iwata Air Engineering warrants each Anest Iwata branded compressor air-end, shall be free of defects for a period of eighteen months from the date of shipment of product, or 10,000 hours of use, whichever occurs first. Supplier’s repair or replacement of any product shall not extend the period of any warranty of any product. This warranty applies to the exchange of part(s) found to be defective by an authorized Anest Iwata service center only.
- (d) **Coverage.** The above mentioned warranty applies to Anest Iwata Air Engineering manufactured units or systems only.
- (e) **Exceptions.** Notwithstanding anything to the contrary herein, Anest Iwata Air Engineering shall have no warranty obligations with respect to products:
- (i) That have not been installed in accordance with Anest Iwata Air Engineering’s Written specifications and instructions;
 - (ii) That have not been maintained in accordance with Anest Iwata Air Engineering’s written instructions;
 - (iii) that have been materially modified without the prior written approval of Anest Iwata Air Engineering; or
 - (iv) That experience failures resulting from operation, either intentional or otherwise, in excess of rated capacities or in an otherwise improper manner.
- (f) The warranty provided herein shall not apply to: (i) any defects arising from corrosion, abrasion, use of insoluble lubricants, or negligent attendance to or faulty operation of the products; (ii) ordinary wear and tear of the products; or (iii) defects arising from abnormal conditions of temperature, dirt or corrosive matter; (iv) any OEM component which is shipped by Anest Iwata Air Engineering with the original manufacturer’s warranty, which shall be the sole applicable warranty for such component.

Limitation of liability. TO THE EXTENT ALLOWABLE UNDER APPLICABLE LAW, NOT WITHSTANDING ANYTHING TO THE CONTRARY HEREIN, UNDER NO CIRCUMSTANCES SHALL ANEST IWATA AIR ENGINEERING BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, PUNITIVE, SPECULATIVE OR INDIRECT LOSSES OR DAMAGES WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATED TO ANY OF THE PRODUCTS OR GOODS SOLD OR AGREED TO BE SOLD BY ANEST IWATA AIR ENGINEERING TO BUYER. TO THE EXTENT ALLOWABLE UNDER APPLICABLE LAW, ANEST IWATA AIR ENGINEERING’S LIABILITY IN ALL EVENTS IS LIMITED TO AND SHALL NOT EXCEED THE PURCHASE PRICE PAID.

Warranty Disclaimer. Anest Iwata Air Engineering has made a diligent effort to illustrate and describe the products in this literature accurately; however, such illustrations and descriptions are for the sole purpose of identification, and do not express or imply a warranty that the products are merchantable, or fit for a particular purpose, or that the products will necessarily conform to the illustrations or descriptions.

Product Suitability. Many jurisdictions have codes and regulations governing sales, construction, installation, and/or use of products for certain purposes, which may vary from those in neighboring areas. While Anest Iwata Air Engineering attempts to assure that its products comply with such codes, it cannot guarantee compliance, and cannot be responsible for how the product is installed or used. Before purchase and use of a product, please review the product applications, and national and local codes and regulations, and be sure that the product, installation, and use will comply with them.

Claims. Claims pertaining to the products, with the exception of warranty claims, must be filed with Anest Iwata Air Engineering within 6 months of the invoice date, or they will not be honored. Prices, discounts, and terms are subject to change without notice or as stipulated in specific product quotations. All agreements are contingent upon strikes, accidents, or other causes beyond our control. All shipments are carefully inspected and counted before leaving the factory. Please inspect carefully any receipt of products noting any discrepancy or damage on the carrier’s freight bill at the time of delivery. Discrepancies or damage which obviously occurred in transit are the carrier’s responsibility and related claims should be made promptly directly to the carrier. Returned products will not be accepted without prior written authorization by Anest Iwata Air Engineering and deductions from invoices for shortage or damage claims will not be allowed. **UNLESS OTHERWISE AGREED TO IN WRITING, THESE TERMS AND CONDITIONS WILL CONTROL IN ANY TRANSACTION WITH ANEST IWATA AIR ENGINEERING** Any different or conflicting terms as may appear on any order form now or later submitted by the buyer. All orders are subject to acceptance by Anest Iwata Air Engineering.

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