



INSTRUCTION MANUAL

■ OIL-FREE PISTON BOOSTER COMPRESSOR

BRF55-14-US

Thank you for purchasing our oil-free piston booster 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-Safety precautions

■ Important information

Be sure to read and understand this instruction manual.



The operator shall be fully conversant with the requirements stated within this instruction manual including important warnings, cautions and operation.

The marks and symbols have the following meanings.






Keep this booklet in an appropriate place for immediate reference.

- Indications of warnings and cautions

 WARNING	Indicates a potentially hazardous situation which, if not avoided, will result in serious injury or loss of life.
 CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or property damage.

- Examples of warnings and cautions

	Indicates「You must be careful」. We will explain briefly in or near the symbol. (The example on the left is [Be careful about electric shock])
	Indicates「You must not do」. We will explain briefly in or near the symbol. (The example on the left is [Do not touch]).
	Indicates 「You must do」. We will explain briefly in or near the symbol. (The example on the left is [Be sure to ground it]).

* We shall not be responsible for any injury or damage caused by disregard of warnings, cautions or instruction.

Important information-Safety precautions

- Safety precautions

WARNING



Install in a safe area.

Install in an area which is free of volatile, flammable gases or organic solvents.
They can cause explosion or fire.



Never install outdoors.

Do not install outdoors (This compressor is not water-proof)
If water splashes on electric equipment, it can cause electric shock or fire.



Turn off main electric source.

Be sure to turn off main electric source before inspection or wiring unit.
If not, it can cause electric shock or serious bodily injury.



Ask qualified electrician.

Ask qualified electrician to perform electric wiring job.
If not, it can cause electric shock or fire.



Be sure to ground.

Be sure to do the grounding job.
If not, it can cause electric shock or fire.



Never use to compress anything other than air.

If done, it can cause explosion, fire or damage.



Never use with respiratory equipment which directly intakes compressed air.

If done, it can cause serious bodily injury.

Important information-Safety precautions

WARNING

 **Never use with equipment which is directly concerned with human life.**

If done, it can cause serious bodily injury.

 **Never touch**

Never touch turning parts (fan, pulley and belts) while main electric source is turned on.

If done, it can cause serious injury including entanglement of fingers or hands.

 **Release pressure**

Be sure to release pressure from air receiver and make sure there is no pressure inside before conducting any maintenance or inspection.

If not, parts can scatter and can cause serious injury.

 **Conduct maintenance and inspection**

Conduct maintenance and inspection according to maintenance standards.

If not, it can cause fire and failure.

Important information-Safety precautions

CAUTION



Use at ambient temperature of 36 degree F to 104 degree F

Drain will freeze at less than 36 degree F and cause failure.
More than 104 degree F will cause shorter lifetime or damage to unit.



Use in an area which is free of dirt or dust.

If done, it can cause failure.



Use at an area which is free of corrosive gas.

If done, it can cause failure.



Ask specialist to perform repairs.

If not, it can cause failure and shorter lifespan.



Never touch.

Never touch each section of compressor during operation or soon after operation.

If done, it can cause burns.



Never alter the compressor.

If done, it can cause damage or shorter lifespan.



Use genuine parts.

Be sure to use our genuine parts when replacing parts during maintenance.

If not, it can cause failure or shorter lifespan.

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Before use

- Inspect the product
 - Check that model name of the product is as you ordered.
 - Check that there is no deformity or damage which occurred during shipment. Any shipping damage must be immediately filed with the freight carrier.
 - Check that the following accessories are included.
 - Pump instruction manual

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).

If done, it can cause shorter lifespan.



WARNING

Install in an area which is free of explosive, flammable gases or organic solvents.

If done, it can cause explosion and fire.



Ambient temperature

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

Less than 36 degree F will cause failure or freezing.



CAUTION

Install this product on a flat floor and free of dust.

If not, it may cause vibration and noise and shorten lifespan and failure.



CAUTION

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

If it does, it can cause failure. Please confirm the operating range before operation.

Maintenance

Following maintenance is required at certain interval. These intervals are based on condition where ambient temperature is around 86 degree F. If your location is warmer or running condition is more sever, maintain within a shorter period. If warmer shorten the period approx. 30% from our recommendation at every 9 degree F. If the operating hour is over 15 hours per day, please shorten 30% from our recommended maintenance period.

Standard maintenance period is not our warranty period.

▪ **Standard maintenance period**

- BRF55-14-US for 200 psi applications

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

Standard A: less than 2,500 yearly operating hours

Standard B: greater than 5,000 yearly operating hours

Item	Details	Maintenance period (every hours or periods)					
		Daily	Every 400 /1 months	Every 2,500 /6 months	Every 5,000 /1 years	Every 7,500 /1.5 years	
Noise, vibration	Check	○					
Air intake filter	Clean		○	●			Whenever it is dirty
Crankcase filter	Clean		○	●			Whenever it is dirty
Valve set	A Check/replace					●☆	Use genuine Parts
Cylinder cover	B Check/replace				●☆		Use genuine Parts
Piston ring	A Check/replace					●☆	Use genuine Parts
Piston set	B Check/replace				●☆		Use genuine Parts
Cylinder	A Check/replace					●☆	Use genuine Parts
Connecting rod	B Check/replace				●☆		Use genuine Parts
Piston pin	A Check/replace					●☆	Use genuine Parts
Bearing	B Check/replace				●☆		Use genuine Parts

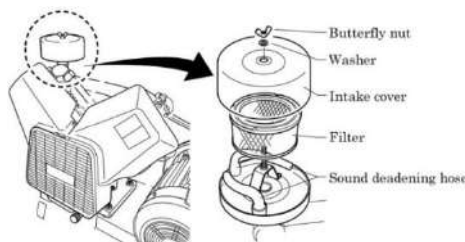
○ Inspect ● Replace ☆ Consult with distributor who sold it to you

* Air intake filter is a wear part, and it is not free of charge even during warranty period. We suggest you keep it on hand.

▪ **How to carry out maintenance**

- Intake filter

Blow dust off of it with air gun and replace if it is too dirty.



Operating range

- Operating range

- BRF55-14-US

Maximum pressure	psi	200
Maximum RPM	RPM	1120
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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