



- Manual de utilizare
- User's Guide



Compresor de aer silentios, fara ulei | pg. 7



Oil-free silent air compressor | pg. 14

SF020-025 / SF020-050 / SF020-100



**Italia Star Com Due S.R.L.**

📍 Autostrada Bucuresti-Pitesti, km. 13/2, Loc. Chiajna, IF

☎ 004/021.433.03.27 ✉ info@italiastar.ro

🌐 [www.italiastar.ro](http://www.italiastar.ro)



# *Air Compressor*

Operation Manual



**Reading Manual Before Operating**



Italia Star Com Due S.R.L.

004/021.433.03.27

info@italiastar.ro



www.italiastar.ro

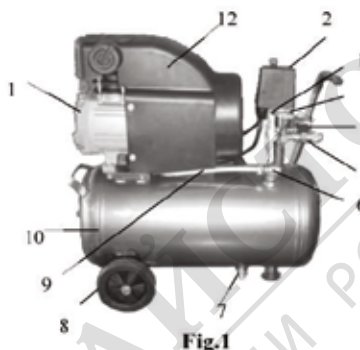


## 1. BRIEF DESCRIPTION

This air compressor is of novel design and excellent workmanship. Having the advantages of compact construction, fine appearance, light weight, easy operation, high safety and low noise, it can be widely used in machinery, chemical industry, spray and decoration, automatic control system and other fields where compressed air is required.

## 2. GENERAL VIEW AND MAIN COMPONENTS (Fig.1)

- (1) Main compressor
- (2) Pressure switch
- (3) Outlet Valve
- (4) Regulating Valve
- (5) Pressure gauge
- (6) One-way Valve
- (7) Drain cock
- (8) Wheel
- (9) Discharge pipe
- (10) Air tank
- (11) Safety valve
- (12) Fan cover



## 3. MAIN THCHNICAL PARAMETER

Model	SF020-025	SF020-050	SF020-100
Motor type	Electric	Electric	Electric
Rated power (cp/W)	2 hp/1.350W	2 hp/1.350W	2 hp/1.350W
Voltage(V)	230V	230V	230V
Speed (r/min)	2.800	2.800	2.800
Noise (db)	≤85db	≤85db	≤85db
Displacement (L/min)	184L/min	184L/min	184L/min
Rated pressure (bar)	8 bar	8 bar	8 bar
Tank volume (L)	25 l	50 l	100 l
Weight (kg)	23	32	43
Dimension (mm)	560*270*550	700*310*585	940*360*655





#### 4. PREPARATION FOR STARTING

1. The place to set the compressor should be clean, dry and ventilated.
2. Keep the use voltage within  $\pm 5\%$  of rated.
3. Keep the oil level in the red circle leveler.
4. Recommend compressor oil use SAE30 or L-DAB100 over  $10^{\circ}\text{C}$ , and use SAE10 or L-DAB68 below  $10^{\circ}\text{C}$ .
5. Open the outlet valve, set the knob of pressure switch in position on (Fig.2), let the compressor run 10 minutes with no load to ensure lubricating the moving parts before regular service.

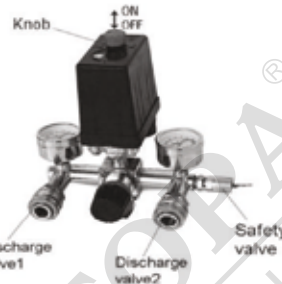


Fig.2

#### 5. OPERATION AND ADJUSTMENT

- 1) The compressor is controlled by pressure switch when normal working. It can be stopped automatically as pressure increasing to the max and restart as pressure decreasing to the min. The rated pressure has been adjusted when produced. Don't change it carelessly. As soon as motor switched off the compressed air in the discharge pipe should be released through the release valve under the switch. This is the necessary condition for restart, or the motor will be damaged. The rated pressure can be adjusted by turning the adjusting bolt of the switch (Fig.3).
- 2) The output pressure of compressed air can be adjusted by regulating valve. Pull up the knob of regulation valve and turn it clockwise or counterclockwise to increase or decrease the pressure (Fig.3).
- 3) The compressor in running need be stopped only set the knob of pressure switch in positing off.

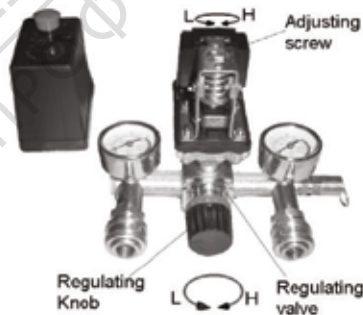


Fig.3





## 6. CAUTIONS

- (1) . Put the cover off first and put on the breath pipe and air filter before the compressor run (Fig.4).
- (2) Never unscrew any connecting part when the tank is in pressure condition.
- (3) Never disassemble any electrical part before disconnecting the plug.
- (4) Never adjust the safety valve carelessly.
- (5) Never use the compressor in place where voltage is too low or too high.
- (6) Never disconnect the plug to stop compressor, set the switch knob in position off instead.
- (7) If the release valve doesn't work as motor stopped, find the cause immediately so as not to damage motor.
- (8) Lubricating oil must be clean, oil level should be kept in the score of oil ruler.
- (9) Disconnect the plug to cut off power supply and open the outlet valve.



Fig.4

## 7. MAINTENANCE

- (1) Clean crankcase and renew lubricating oil after the first 10 working hours.
- (2) Clean the oil level after every 20 working hours, and replenish if necessary (Fig.5)
- (3) Open drain cock under the tank to exhaust condensate after every 60 working hours.
- (4) Clean crankcase and renew the oil, clean air filter, and check safety valve and pressure gauge after every 120 working hours.



Fig.5





## 8. TROUBLES AND REMEDIES

Trouble	Possible causes	Remedies
Motor unable running. Running too Slow, or Getting hot	(1) Fault in line, or voltage insufficient (2) Power wire too thin or too long (3) Fault in pressure switch (4) Fault in motor (5) Sticking of main compressor	(1) Check the line (2) Replace the wire (3) Repair or replace (4) Repair or replace (5) Check and repair
Sticking of main compressor	(1) Moving parts burnt due to the oil insufficient (2) Moving parts damaged, or stuck by foreign body.	Check crankshaft, bearing, connecting rod, piston, piston ring, etc. And replace if necessary.
Terrible shake or abnormal noise	(1) Connecting part loosed (2) Foreign body got into main compressor (3) Piston knocking valve seat (4) Moving parts seriously worn	(1) Check and retighten (2) Check and clean away (3) Replace with thicker paper gasket (4) Repair or replace
Pressure insufficient or discharge capacity decreased	(1) Motor running too slow (2) Air filter choked up (3) Leakage of safety valve (4) Leakage of discharge pipe (5) Sealing gasket damaged (6) Valve plate damaged, carbon buildup or stuck. (7) Piston ring and cylinder worn or damaged	(1) Check and remedy (2) Clean or replace the cartridge (3) Check and adjust (4) Check and repair (5) Check and replace (6) Replace and clean (7) Repair or replace
The oil Consumption too excessive	(1) Oil level too high (2) Breath pipe choked up (3) Piston ring and cylinder worn or damaged	(1) Keep the level within set range (2) Check and clean (3) Repair or replace



# Warranty Certificate

Series AA No. \_\_\_\_\_  
 Product name: \_\_\_\_\_  
 Model : \_\_\_\_\_

Series no.: \_\_\_\_\_  
 Accessories: \_\_\_\_\_  
 Seller: \_\_\_\_\_  
 Signature / stamp: \_\_\_\_\_

Buyer: \_\_\_\_\_  
 Adress : \_\_\_\_\_  
 Date of purchase: \_\_\_\_\_  
 Signature / stamp: \_\_\_\_\_

DISTRIBUTOR: .....  
 NAME: .....  
 ADDRESS .....

***I hereby confirm that I received the product in perfect condition with the utilization manual and I fully agree that this warranty certificate is valid only accompanied with the purchase invoice or receipt. If the product is not accompanied by this certificate or warranty is expired or canceled by the service due to abnormal usage conditions, the repairs will be done and charged after my consent***

## Warranty Conditions

24 months warranty period from the date of purchase.

The service under terms of warranty has to be required to the closest Authorised Assistance Centre (you can find the list in our sales network or check it on our website [www.italiastar.ro](http://www.italiastar.ro) in the Service area) ; the buyer has to apply for warranty always showing documents about the date of purchase of the item itself.

As warranty we mean reparation or substitution of those spares that have manufacturing defects.

For all the Italia Star products, the terms of warranty are one year after the date of delivery to the user.

Repairs done during the warranty period do not interrupt the period of the general warranty itself.

The warranty service include reparation or substitution of all the defective parts; if the reparation is done at the customer's place all the transfer to and from the assistance centre will be charged to the purchaser.

All the reparations under terms of warranty, even if done in one of our authorised assistance





centres, have to be approved by Italia Star Service department in order to allow the reparations.

The warranty cannot be accepted in the following cases:

- When the reparation or substitution of the parts has been done by a non-authorized Italia Star assistance service;
- When the cause of the problem is due to the use of non original Italia Star spare parts;
- When the user install on the machine non original or not indicated on the manual accessories;
- When the product has been, modified, repaired, disassembled from the buyer or from others;
- When there are modifications in the product done without Italia Star authorisation that can have influence on the correct functioning of the product;
- In case of incorrect start-up, incorrect use of the machine, incorrect use of the instruction given in the operating and maintenance manual, and not execution of the maintenance scheduled procedures;
- In case of natural disasters;
- In case of standard wear and tear;
- In case of damages caused by use of inadequate fuel and lubricant;
- In case of damages to the electrical components caused by an inadequate electrical system, in case of problems given by the electrical alimentation net, or by connections done without following the instruction of the operating and maintenance manual.

## **\*THE WARRANTY IS NOT TRANSMISSIBLE**

### Authorized Service



Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

e-mail: \_\_\_\_\_

