

Installation, Operating & Maintenance Instructions (Issue : 1)

Compton CCFPC-1 Oil -Free Air Compressor for Sprinkler Systems.

Reliability and efficiency are the essential features of these direct drive, oil-free sprinkler system air compressor units which require only minimal regular maintenance and are exceptionally quiet in operation.

All versions are supplied with wall / floor mounting bracket, non-return valve and pressure switch to give a completely automatic compressed air installation for use in alternate wet / dry sprinkler systems.

Your Bambi Compton Air Compressor is a precision engineered product. By following these simple steps you will ensure years of trouble free use. Parts & Service are available from your Bambi Compton dealer and it is important to quote Model, Type & Serial Number in all communications.

The substitution of parts not manufactured nor approved by Bambi can impair performance, service life and create potential mechanical or personnel hazards and will invalidate your warranty.

Bambi reserves the right to modify the contents of these Installation, Operating & Maintenance Instructions without notice and the information is in no way binding on the company.

Warranty

Provided the operating instructions have been followed and the compressor has been properly maintained, Bambi air compressors are guaranteed against faulty workmanship for a period of 1 year.

The guarantee does not cover damage by misuse, incorrect parts or service.

Contact Bambi Air Compressors or your Compton dealer for further information.

Safety Precautions

What you **must** do

- Read these instructions before using your air compressor.
- Ensure the compressor has been installed, electrically connected and piped in by a suitably qualified person.
- Adhere to safe working practices when working with or adjacent to this equipment, and comply with Health & Safety at Work Acts, IEE Regulations & any other current or future legislation.

What you **must not** do

- Do not attempt any maintenance on the compressor until it has been isolated from the power supply.
- Do not attempt any work on the compressor until the air in the pipe work system is depressurised and surfaces of the compressor and pipe work are cool to touch.
- Compressed air is dangerous if misused and can prove fatal. Avoid any bodily contact with compressed air.
- During operation the motor will become quite hot to the touch. Avoid contact to prevent burns.
- Never tamper with the pressure relief valve.
- Never lubricate the oil free motor or pump assembly, this will cause severe damage.
- Never obstruct cooling fans or outlet vents.

Installation

What you **must** do

- Provide adequate protection from the weather.
- Site the compressor level in both plains. (The compressor mounting bracket may be wall or floor mounted).
- Allow access for maintenance all around the compressor.
- Site in a dry area, avoiding damp or humid conditions. The site must be dust free, well ventilated and have a cool ambient temperature. 40⁰ C should be regarded as the maximum allowable ambient temperature.

What you **must not** do

- Enclose the compressor or allow hot air generated by the motor to re-circulate around the compressor. Ensure there is minimum 30cm clearance around the compressor.

Electrical Connections

It is essential that all wiring connections are carried out by a suitably qualified electrician / person.

Ensure the electrical supply is compatible with the voltage, phase and Hz as indicated on the electric motor identification label.

Pressure Switch adjustment

The pressure switch is pre-set at the factory with a cut-out pressure of 40 PSI (2.75 Bar) and a cut-in pressure of 30PSI (2.06 Bar) .

Adjustment of the pressure switch is possible to suit system requirements up to 60 PSI maximum, provided a 10 PSI pressure differential is maintained between the cut-out and cut-in pressures. **Adjustment must only be carried out by a suitably qualified person** . (See separate instructions according to type and model pressure switch fitted).

Pipe work Connections

Connect the ½” BSP male fitting of the supplied pressure gauge assembly pipe work to the Sprinkler System air isolation valve , and connect the red nylon air output hose (Push fit) to the opposite end of the pressure gauge assembly pipe. The hose can be shortened by cutting if required. (Remove by pushing the loose locking ring inwards to release the hose).

Operation / Commissioning

Switch the compressor on using the O/I switch located on the pressure switch .The compressor will start running and automatically switch off at the preset cut-out pressure. As air pressure drops in the system pipe work, the compressor will restart at the preset cut-in pressure. A preset pressure relief valve (10 Bar / 145 PSI) is incorporated to protect the compressor from overpressure.

A lever type ball valve (Red Handle) situated in the pipe work at the front of the compressor controls the compressor air flow output rate, and with the lever in the horizontal position, allows full compressor capacity air flow rate (4.8 CFM) for initially pressurising the sprinkler system pipe work.

With the lever in the vertical position, the compressor air flow output is reduced (3.5 CFM) to provide a topping-up mode air flow rate to maintain system pressure. (The lever should be set to the vertical position after initial pressurising of the system is completed.)

Note !

Each time the compressor switches off or the power supply is interrupted, you will hear a short hiss of air. You are hearing the solenoid operated un-loader valve operating and unloading the compressor heads of air to enable re-start.

Do not ignore air leaks. All air connections must be leak free to prevent the compressor from operating for unnecessary long periods and over heating.

The compressor is fitted with a thermal overload. In the event of excessive temperature the motor will switch off. To re-set the overload Switch off at the pressure switch. Allow 50 minutes for the motor to cool down. Switch on at the pressure switch.

Preventative Maintenance

Operation	Annually	2 Years
Replace Air Intake Filter	X	
Check Pressure Relief Valve Operation	X	
Check Non-Return Valve Operation	X	
Check / Replace Piston Ring		X

Above are to be considered minimum frequency

Specification

CCFPC-1 Compressor Single Phase 220/240Volts :

Specification		
Motor Kw / Hp	1.1	1.5
Voltage / Phase	220/240	1
Frequency Hz	50	
Amps	5.7	
Displacement l/min	175	(6.1CFM)

Troubleshooting