



Electrical Components: Motor, Contactors, Switches, Controllers

Technical Information Bulletins - #3

This technical bulletin is designed to provide more information about the best practice compressed air system recommendations made during your recent service.

Best practice electrical component replacement schedule

The lifespan of your compressor's electrical components depends on your system's operations and maintenance. Electrical components are the heart of your compressed air system and are the elements that control your machine, so they should be serviced and maintained according to manufacturer specifications.

Benefits of replacing your compressor's electrical components on schedule

The electrical components of your compressor provide and help control the energy used to generate compressed air, so it's important to maintain and replace these elements according to your compressor's maintenance schedule. This will significantly reduce damage to your compressor and minimise the chance of breakdowns.

Risks of not replacing your electrical components on schedule

Not replacing your compressor's electrical components on schedule, trying to extend the life of these parts beyond their recommended lifespan or poor maintenance can cause premature damage, leading to unscheduled downtime. Some of the major risks of not replacing these components as recommended include: increased energy consumption (and costs); overheating; mechanical failure; and motor burn out.



Why have new electrical components been recommended?

New electrical components have been recommended because they either:

- exceed the best practice operating hours recommended by your compressor manufacturer, or
- show specific signs of failure or compromised operations.

How can you prolong the life of your compressor's electrical components?

There are a number of ways to prolong the life of your compressor's electrical components:

- Regular servicing and inspection
- Monitoring and addressing overheating and energy consumption issues
- Replacing worn parts, including bearings
- Housing the compressor in a clean environment free from dust and contaminants
- Following your manufacturer's maintenance schedule.

Your NPS service technician has the experience and technical knowledge to help maximise the life of your compressed air system.

More information

Our service team is always happy to provide more information or to talk through our best practice recommendations for your compressor.

Call us on [1300 290 638](tel:1300290638) or email info@nesscopressure.com.au for more information.

About your compressor's electrical components

Your compressor has several electrical components:

- A motor which provides the power to the airend
- The contactor which brings high voltage to the compressor to run it
- A controller which allows you to monitor and change the way your compressed air system operates
- The pressure switch which monitors the air tank's pressure and automatically stops the compressor once it reaches the desired air pressure.

Because they are heavily used, these components are prone to wear and tear, so they should be maintained and replaced as recommended.

