



CE ENGINEERING

Quality Service Reliability

✓ **Quality**
ISO 9001:2008

✓ **Service**
#1 IN AUSTRALIA

✓ **Reliability**
IN HVAC ENGINEERING

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On-Site Rebuilding

SECTORS

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Onsite Re- Manufacturing

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RECENT WORK
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CE Engineering also incorporates a dedicated on site rebuilding division. This was developed to provide a total compressor repair facility for



contractors unable to remove the unit due to constraints on size, cost or design. Like all of our rebuilt compressors, and compressors rebuilt on site are covered by our 12-month warranty.

Our unique and complete re-manufacturing process includes the following steps:

CE NEWS



Final
News
of
20
19



December
20,
2019

1. The refrigerant or refrigerant-oil mixture is drained and properly disposed of.
2. Then, the compressor is disassembled to bare casting. Each casting is inspected for visible defects and cracks. The castings in good condition are dispatched to cleaning and blasting to bare metal.
3. The crankcase is visually inspected for integrity of gasket surfaces and threaded holes.
4. All critical air conditioning and refrigeration compressor parts, including bearings, inserts, seals, piston rings, suction and discharge valves, are properly discarded and replaced with new items.
5. The valve plates are replaced with new ones or reground to ensure good valve seating. As well as, all valve plates are reassembled with new reeds and springs.
6. The crankshaft, pistons, rods, and liners are cleaned to a bright finish and checked to ensure they meet the current OEM tolerances. If a component does not meet the tolerances specified, it is discarded and replaced with a new part.
7. Cylinder holes are inspected for physical damage. Then, the cylinders are dimensionally inspected and re-honed to the OEM specifications in order to ensure proper seating of new rings.
8. When upgrading the motor, the stator is electronically tested. A malfunctioning stator is charred under controlled temperatures, rewound, immersed in clear varnish, and retested. Additionally, the rotor is surge tested and evaluated to guarantee initial start up under load.
9. The oil pump is also visually and dimension-ally inspected, upgraded, reassembled, and tested to ensure compliance with specifications for oil flow and pressure.
10. The compressor is reassembled, with all the bolts torqued to specifications. Immediately after the assembly, each compressor is sealed with blank-off plates, charged with nitrogen, and leak tested by total immersion in a clear liquid. The assembly technician repairs

by total immersion in a clear liquid. The assembly technician repairs any leaks identified during the test.

11. After passing the leak test, the compressor is recharged.

Every single compressor that we re-manufacture is run tested under load to ensure proper oil pressure, amperage, loading, unloading, and pump-down capabilities.

12. Careful records, including work and test sheets, are filed throughout the re-manufacturing process.



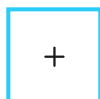
Defining "Re-Manufactured"



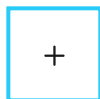
"Re-Manufactured" means that the compressor has been completely re-manufactured to meet the standards of a new unit, for all practical purposes. In addition to cleaning and replacing old components with new items—which means that all mechanical tolerances are brought up to the latest OEM standards—a re-manufactured compressor can be upgraded with new technology to improve its energy efficiency, performance, and durability.



Various Compressor Types



Ecologically Friendly Products



CEE 12 month Guarantee



SOCIAL SHARES

Not only do we service Australian and International companies, CE Engineering re-manufacture compressors for government organisations like various State Rail Authorities and the Australian Navy.

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