



DHANA ENGINEERING PTE LTD

(Reg.No.200801847G) (GST Reg.No.200801847G)

website: www.dhanaengsg.com

We are one of the leading Marine, Industrial Heating-Ventilation-Air-conditioning & Refrigeration repair/servicing companies. We have an experienced team and have more than 30 years hands on experience in Marine/Industrial Heating-Ventilation-Air-conditioning & Refrigeration services. Doing all kind of ship repair services include FPSO and Oil Rigs at Shipyards, Anchorage/Afloat and on voyage.

- Service support 24/7
- ISO & Bizsafe (Star) Certified
- Fast analysis and recommend solutions
- Have stocks of Compressors and Spare parts
- Over 25 Years Experienced Team
- Affordable budget
- 24-hr Technical support

WORK DESCRIPTIONS:

- Clean all components, including the motor, pistons, valve plates, and other parts, using cleaning agents or solvents to remove dirt, oil, or refrigerant residues.
- Check for damage such as worn-out seals, cracked valve plates, scoring on pistons, or damaged bearings. Inspect the shaft alignment and measure the tolerances of moving parts to ensure they meet specifications.
- Check the compressor motor's condition, including windings, insulation, and electrical connections, to identify any potential failures.
- Replace any worn-out or damaged components such as pistons, seals, gaskets, valve plates, bearings, shaft components, or gaskets.
- Re-lubricate the compressor's moving parts with the correct type and amount of lubricant to ensure smooth operation once the compressor is reassembled.
- Replace worn seals and gaskets to prevent leaks during compressor operation, as leaking refrigerant or oil can reduce system efficiency and damage other components.
- **Reassemble Compressor:** Carefully reassemble the compressor, ensuring all parts are properly aligned, connected, and torqued to the correct specifications.
- **Pressure Testing:** Conduct pressure tests to ensure that the compressor can safely handle the operational pressures when it's back in service.
- **Leak Testing:** Perform leak checks on refrigerant lines and seals to ensure there are no refrigerant leaks, which could affect the system's performance and environmental compliance.
- **Functional Testing:** Run the compressor in a controlled environment to ensure it operates efficiently, with correct pressure, temperature, and energy consumption. Monitor vibrations, noises, and other indicators of proper function.





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