

COMPRESSOR MAINTENANCE & REPAIR

COURSE DESCRIPTION

The compressor is considered to be the heart of the HVAC system. It provides the force that moves the refrigerant through the cycle and it raises the pressure of the refrigerants so that the heat absorbed in the evaporator can be transferred again at the condenser. It is important to understand compressors and to know how to service and troubleshoot them. Improper servicing can result in serious damage to the compressor, and incorrect problem diagnosis can result in unnecessary replacement task.

WHAT YOU WILL LEARN

- **Identify and describe the operation of various compressor types.**
 - Identify and describe the operation of reciprocating compressors, various hermetic & semi-hermetic compressors, rotary compressors, scroll compressors, screw compressors & centrifugal compressors.
- **Identify and describe various approaches to compressor capacity control.**
 - Identify and describe capacity control methods for reciprocating and scroll compressors.
 - Identify and describe capacity control methods for screw and centrifugal compressors.
- **Describe common compressor failures.**
 - Describe compressor failures related to the refrigerator circuit.
 - Describe compressor failures related to electrical issues.
- **Identify and explain the operation of various compressor protection devices.**
 - Identify and explain the operation of various overload devices.
 - Identify and explain the operation of other compressor protection devices.
- **Explain how to analyze the operation of a hermetic compressor.**
 - Explain how to evaluate the mechanical operation of an operable compressor.
 - Explain how to evaluate the electrical operation of an operable compressor.

8 HOUR PROGRAM



SATURDAY

8:00 AM - 4:00 PM

**Location: 65 Elm Street
Copiague, NY 11726**

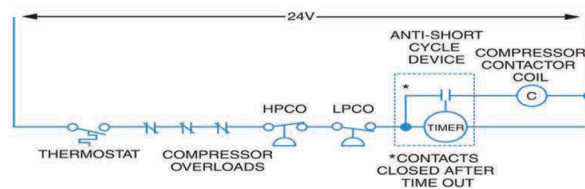
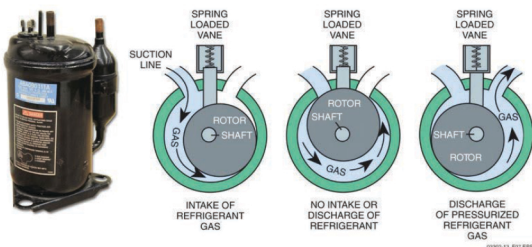


BEFORE



AFTER
(POSITIVE RESULT)

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63300-13_F40.EPS