**INTRODUCTION**

SIMUGAS™ is a gas furnace simulator and troubleshooting training system, designed for HVAC students and service technicians. The simulator is an invaluable tool for teaching students the basics of gas furnace operation and troubleshooting, as well as improving the service skills of experienced technicians.
GENERAL FEATURES OF THE UNIT

Simulates two generic versions of gas furnaces that a service technician would commonly encounter in the field. They include a high-efficiency condensing furnace, using hot-surface ignition (HSI), and a standard-efficiency furnace, using standing pilot ignition. Indoor and outdoor temperatures, room thermostat, burner air-shutters, fan limit, high limit, heat anticipator, and manifold pressure are all adjustable. Up to 30 different mechanical and electrical faults may be inserted into the simulator, as shown in the Fault Lists below.

EXPERIMENTS

Provides testing and troubleshooting of components and devices commonly found in gas furnaces, including the following:

- Primary heat exchanger
- Secondary heat exchanger
- Combustion chamber
- Burners
- Gas valve
- Pilot burner
- Thermocouple
- Blower and vent blower motors
- Control transformer
- Blower and heat relays
- Gas control valve
- Hot-surface ignitor element
- Hot-surface ignition module

REQUIREMENTS

Requires the following minimum computer system to operate:
- IBM compatible PC with a Pentium®, Core®, or equivalent processor
- Windows XP, Vista, 7, 8, 8.1, and 10 (32 or 64-bit)
- VGA/SVGA display
- Hard disk drive, 17MB available disk space (11.5MB if other Simutech simulators are also installed)