

GCS16/GCS20 SERIES UNITS

GCS16/20 series units in the 2 to 5 ton (7.0 to 17.0 kW) cooling size are packaged combination gas heat / dx cool units designed for commercial applications. Gas heat sections are available with Lennox' new tubular heat exchanger in 50,000, 75,000, 90,000 and 120,000 (14.7, 22.0, 26.4, 35.2 kW) Btuh input sizes.

Three phase GCS20 units manufactured April 2002 and later have a 12.0 seer rating. Revised specifications, electrical data and blower data are included in this manual.

All GCS20 model units and GCS16-036 and -048 utilize a scroll compressor. The scroll compressor offers high volumetric efficiency, quiet operation and the ability to start under system load. Continuous flank contact, maintained by centrifugal force, minimizes gas leakage and maximizes efficiency. The motor is internally protected from excessive current and temperature. GCS16-024, -030 and -060 models will be equipped with a reciprocating compressor. The reciprocating compressor is hermetically sealed for trouble free operation and long service life. Like the scroll, the reciprocating compressor has a built-in protection device against excessive current and temperatures.

The GCS16/20 is designed to accept any of several different thermostat control systems with minimum field wiring. Control options such as economizer, warm up kit, Honeywell T7300 control or Honeywell T8600 control are applicable. When installed, the controls become an integral part of the unit wiring. Units are also equipped with a low voltage pig tails to facilitate thermostat field wiring.

Information in this manual is for use by a qualified service technician only. All specifications in this manual are subject to change. Procedures outlined in this manual are represented as a recommendation only and do not supersede or replace state or local codes.

⚠ WARNING

Refrigerant can be harmful if it is inhaled. Refrigerant must be used and recovered responsibly.

Failure to follow this warning may result in personal injury or death.



GCS16 SHOWN

⚠ WARNING



Electric shock hazard. Can cause injury or death. Before attempting to perform any service or maintenance, turn the electrical power to unit OFF at disconnect switch(es). Unit may have multiple power supplies.

ELECTROSTATIC DISCHARGE (ESD)

Precautions and Procedures

⚠ CAUTION

Electrostatic discharge can affect electronic components. Take precautions during furnace installation and service to protect the furnace's electronic controls. Precautions will help to avoid control exposure to electrostatic discharge by putting the furnace, the control and the technician at the same electrostatic potential. Neutralize electrostatic charge by touching hand and all tools on an unpainted unit surface, such as the gas valve or blower deck, before performing any service procedure.

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J Elliott



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