



38AQ007/40RMQ008 Split System Heat Pump

Wiring Diagrams

60 Hz

WIRING DIAGRAM INDEX

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SEQUENCE OF OPERATION — 38AQ007 OUTDOOR UNIT WITH 40RMQ008 INDOOR UNIT

When power is supplied to unit, the transformer (TRANS) and crankcase heater (CCH) are energized.

Cooling — On a call for cooling, the thermostat completes the following circuits: R-G, R-Y, and R-O. If the compressor recycle delay of 3 minutes is complete, the compressor and outdoor fan start. The reversing valve is energized for cooling and the indoor-fan motor starts.

When the thermostat is satisfied, the circuits are opened, and the compressor, outdoor-fan motor, and indoor fan motor stop. The reversing valve is deenergized.

Heating — On a call for heating, the thermostat completes the following circuits: R-G and R-Y. If the compressor recycle delay of 3 minutes is complete, the compressor and outdoor fan start. The indoor-fan motor will also start.

If room temperature continues to fall, the thermostat completes circuit R-W. If the optional electric heat package is used, the heat relay is energized, and the electric heaters are energized.

When the thermostat is satisfied, the circuits are opened, and the compressor, outdoor-fan motor, heaters, and indoor-fan motor stop.

Defrost — The Defrost board (DB) is a time and temperature control, which includes a field-selectable time period between checks for frost (30, 50, and 90 minutes). Electronic timer and defrost cycle start only when contactor is energized and defrost thermostat (DFT) is closed (below 36 F [2.2 C]).

Defrost mode is identical to Cooling mode, except outdoor-fan motor (OFM) stops and a bank of supplemental electric heat (if equipped) turns on to warm air supplying the conditioned space. Defrost mode is terminated when the DFT reaches 31 F (19.6 C).

Low Ambient — Cooling head pressure control at low ambient conditions is accomplished through a low ambient relay and switch. The switch is factory set to close at 250 psig and open at 100 psig. In Heating mode, the low ambient switch is bypassed by normally closed contacts on the low ambient relay.

Air Circulation — When the fan switch is at FAN ON, the indoor-air fans operate continuously to provide ventilation. The thermostat operates the other components as described above.

Emergency Heat Cycle — If the compressor is inoperative due to a tripped safety device, the second stage of the thermostat automatically energizes the indoor-air fan and the electric resistance heaters (if equipped).

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Robert Chatenever



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Architectural Record ,1998-04 **Search** ,1989 *Commerce Business Daily* ,1998-05 *Understanding Electricity and Wiring Diagrams for HVAC/R* Robert Chatenever,2000 This book provides HVAC R service technicians with exceptionally practical information on the unique wiring diagrams methods technician short cuts and potential pitfalls encountered on the job It begins with a discussion of general electricity and electrical circuits and then moves quickly into explaining wiring diagrams for HVAC and refrigeration systems and the new devices that are encountered with each new diagram It features accessible technician level explanations of electronics Electrical Concepts Simple Currents Standing Pilot Furnaces Heating Air Conditioning Circuits Troubleshooting Strategies Testing and Replacing Common Devices Repair Strategies Commercial Systems Motor Applications Power Wiring Testing and Replacing Motors and Start Relays How Motors Work Low Voltage Room Thermostats Electronic Ignition Gas Fired Furnaces Oil Heat Electric Heat Boilers Heat Pump Ice Makers Miscellaneous Devices and Accessories Wiring Techniques DDC Controllers For HVAC R service technicians **Quick & Basic Electricity** Carol Fey,1999 **Electricity, Electronics, and Wiring Diagrams for HVAC/R** Edward F. Mahoney,2006 This book provides a comprehensive but simple review of electricity and electronics along with the coverage of many circuits and wiring diagrams of operating HVAC R systems Gives technicians in the field of modern HVAC R all they need to be successful Published in two main sections the first section covers basic electricity and basic electronics related to the needs of air conditioning refrigeration technicians while the second section of the book covers practical circuits and systems For HVAC R Technicians

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