



O/M manual

Table of Contents

EconoDRY Kit Install	3
EconoDRY Wiring & Plumbing.....	4 - 6



Hot gas reheat is where you overcool the air at the evaporator coil and then utilize reheat to raise the temperature to help dehumidify the space. econoDRY is where iAIRE provides on/off hot gas reheat to a customer provided unit. There is no modulation of the hot gas reheat. It is either on or off.

This kit is for an install on customer provided equipment. iAIRE will supply a hot gas reheat coil with an on/off solenoid valve.

EQUIPMENT INCLUDED:

- Reheat coil
- Accumulator
- Receiver
- Solenoid valve
- Piping
- Terminal strip



Notes:

- Reheat temperature rise is approximately 10 degrees.
- Additional static added to the supply blower from the coil is 0.2"

These kits do not include an RCCD valve or VFD. If required, they are purchased as stand alone options.

Sequence of Operations

When customer provided humidistat sends a signal for humidity, the solenoid that isolates the hot gas coil from the rest of the system opens to allow hot gas to go to the coil. This will raise the temperature of the air coming off the evaporator coil approximately 10 degrees.

When the humidistat stops calling for humidity, the solenoid valve closes, stopping the reheat.

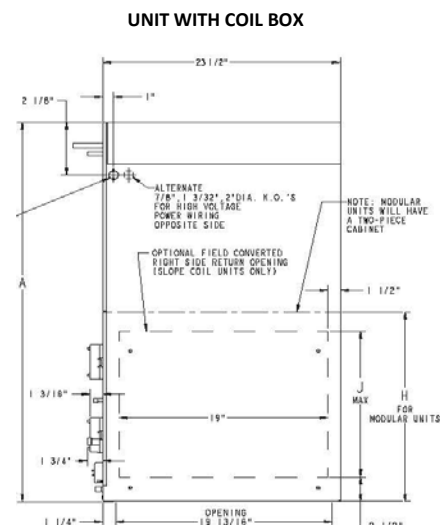
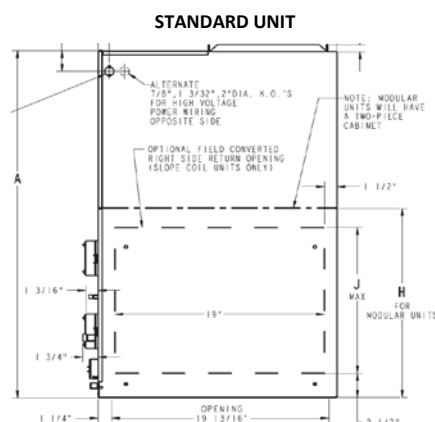
Part Numbers & Physical Dimensions

PHYSICAL DIMENSIONS

RTUs and Commercial Splits: All parts fit inside the unit. There is no footprint change to the unit.

Residential Splits: A coil box is added to the AHU, making the unit approximately 8" taller. (see below drawing for reference)

PART #	W (lbs)
econoDRY-Install-26	125
econoDRY-Install-712	175
econoDRY-Install-1525	225
econoDRY-Install-RESSPLIT	125



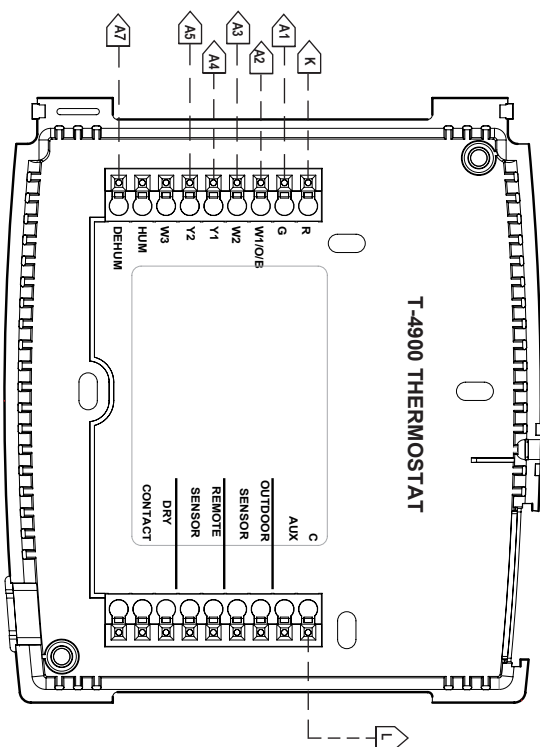


ON / OFF REHEAT WIRING DIAGRAM

SCH-0010

Revision: V05.12

Optional Aire Field Installed Thermostat Wiring



T4900 Programming Setpoints

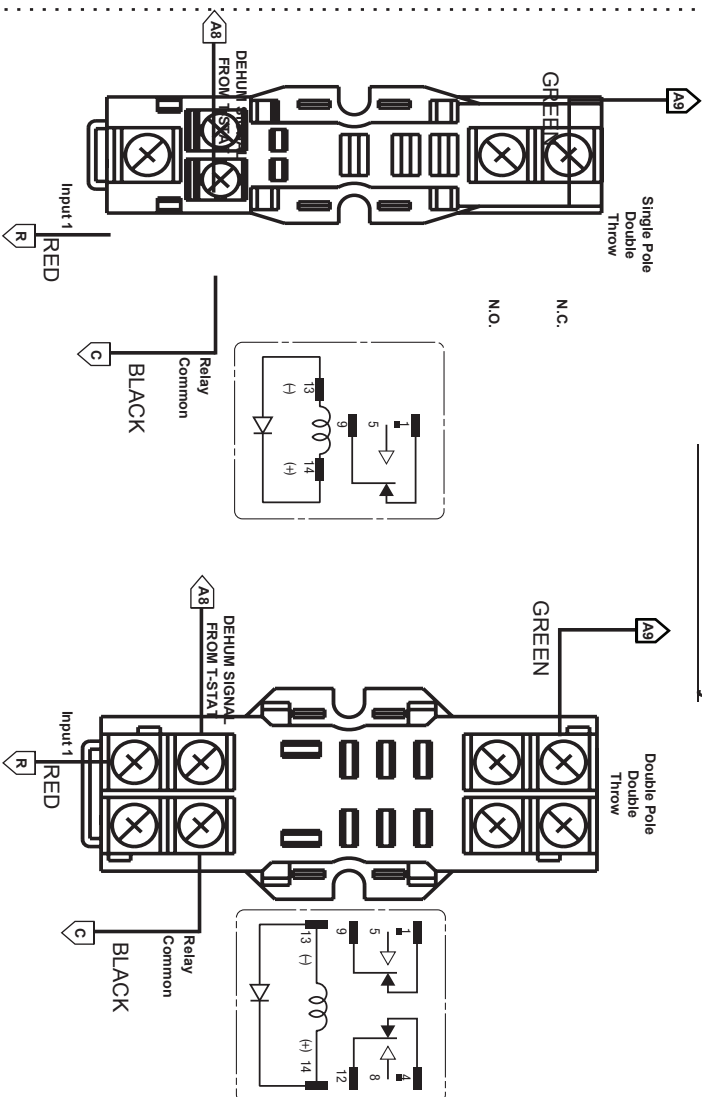
30 = 1 or 2

45 = Wired Remote

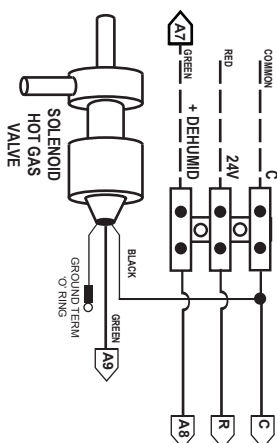
50 = On

 (Cooling Stages)
(If Applicable)
(Cool to DeHum)

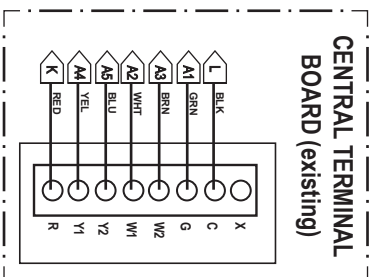
Choose Correct Relay



Valve Wiring



CENTRAL TERMINAL BOARD (existing)

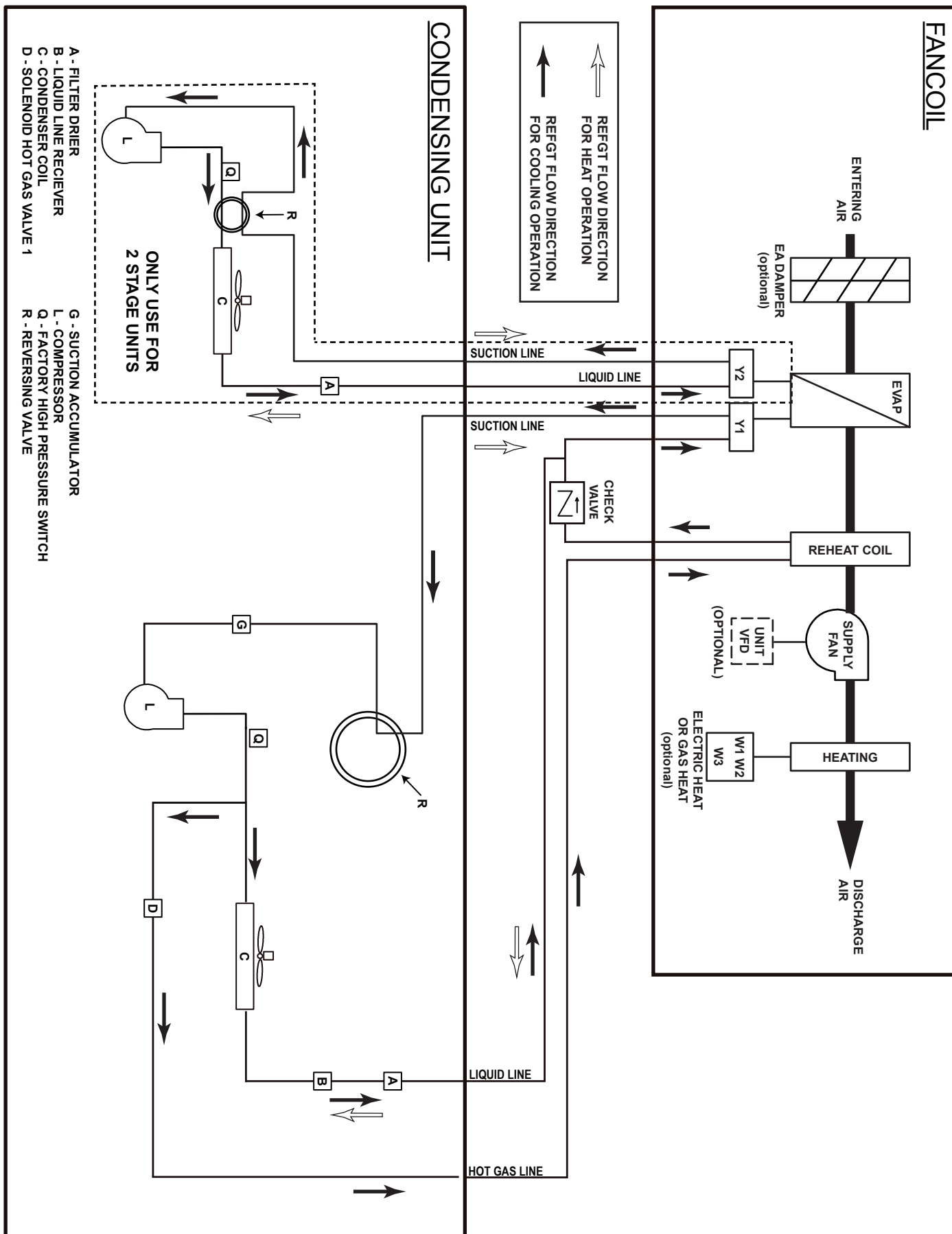




ON / OFF REHEAT WIRING & PIPING DIAGRAM (HEAT PUMP) SCH-0009

Revision: V05.10

SAFETIES
 AT LOW SUCTION PRESSURES (LOW LOAD) THE RAWAL DEVICE WILL BYPASS HOT GAS TO THE COMPRESSOR. RAWAL DEVICE WILL ALSO INJECT SOME LIQUID REFRIGERANT INTO SUCTION LINE TO AVOID OVERHEATING THE COMPRESSOR DURING BYPASS. THIS WILL ALSO PROLONG USE OF FIRST STAGE AND IMPROVE DEHUMIDIFICATION.





ON / OFF REHEAT PIPING DIAGRAM

SCH-0010

Revision: V05.10

SAFETIES
AT LOW SUCTION PRESSURES (LOW LOAD) THE RAWAL DEVICE WILL BYPASS HOT GAS TO THE COMPRESSOR. RAWAL DEVICE WILL ALSO INJECT SOME LIQUID REFRIGERANT INTO SUCTION LINE TO AVOID OVERHEATING THE COMPRESSOR DURING BYPASS. THIS WILL ALSO PROLONG USE OF FIRST STAGE AND IMPROVE DEHUMIDIFICATION.

