

OT18-60A OUTDOOR THERMOSTAT

INSTALLATION INSTRUCTIONS

ATTENTION INSTALLING PERSONNEL

As a professional installer you have an obligation to know the product better than the customer. This includes all safety precautions and related items.

Prior to actual installation, thoroughly familiarize yourself with this Instruction Manual. Pay special attention to all safety warnings. Often during installation or repair it is possible to place yourself in a position which is more hazardous than when the unit is in operation.

Remember, it is **your** responsibility to install the product safely and to know it well enough to be able to instruct a customer in its safe use.

Safety is a matter of common sense...a matter of thinking before acting. Most dealers have a list of specific good safety practices...follow them.

The precautions listed in this Installation Manual are intended as supplemental to existing practices. However, if there is a direct conflict between existing practices and the content of this manual, the precautions listed here take precedence.

DESCRIPTION

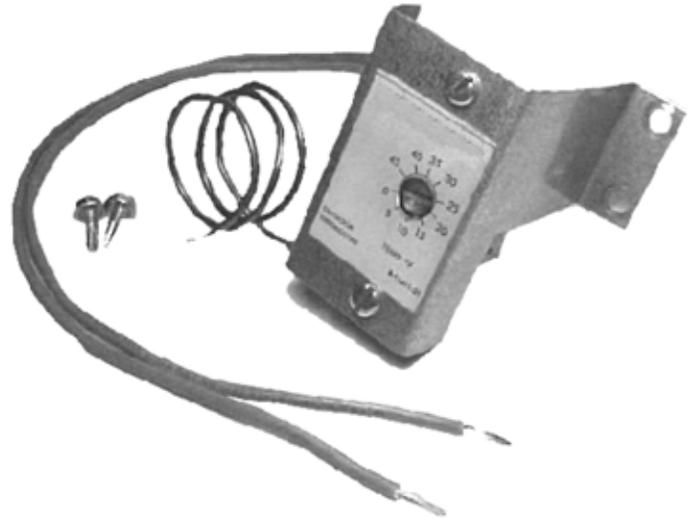
This single pole double throw thermostat device with adjustable 0° to 45° temperature range is employed in conjunction with the room thermostat to control the electric heaters that have been added to cooling and heat pump products. This kit includes an Outdoor Thermostat, three wires, mounting bracket, (3) wire caps, and (2) self-drilling screws.

Note: If the outdoor ambient temperature is below 0° F (-18° C) with 50% or higher Relative Humidity, an Outdoor Thermostat must be installed and set at (0° F) on the dial. Failure to comply with this requirement may result in damage to the product which may not be covered by the manufacturer's warranty. See Figures 12 and 15 for wiring connections.

The schematic and the terminal view of this device is shown in Figure 2:

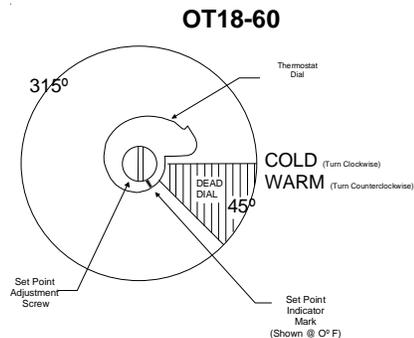
When used as an outdoor thermostat to control increments of electric heat, connections will be made to terminals 2 and 1. As temperature rises above the set point contacts 2 to 1 will open thus preventing the controlled increment of supplemental heat from operating. As outdoor temperature falls below the set point contacts 2 to 1 will close allowing the controlled increment of heat to operate. See Figures 10, 11, 13, and 14 for wiring connections.

Use the wires supplied for Outdoor Thermostat connections. If the installation is with an All Fuel kit, refer to the Installation Instructions supplied with the AFE18 All Fuel kit for wiring connections.

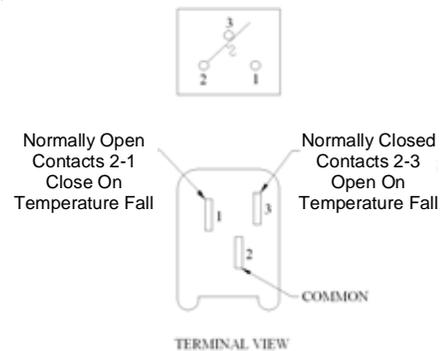


INSTALLATION

The outdoor thermostat is designed to be installed in the space allocated in the control box of the cooling and heat pump units.



THERMOSTAT CAM
Figure 1



PART # B13708-67
Figure 2



WARNING

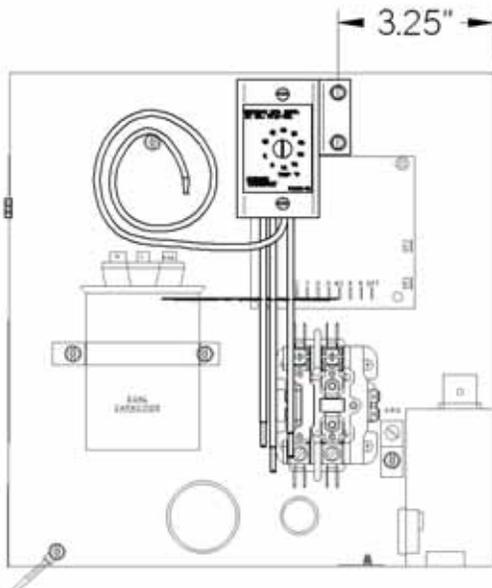
HIGH VOLTAGE
DISCONNECT ALL ELECTRICAL POWER BEFORE
SERVICING OR INSTALLING THE OUTDOOR THERMOSTAT.
MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE
TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL
INJURY OR DEATH.



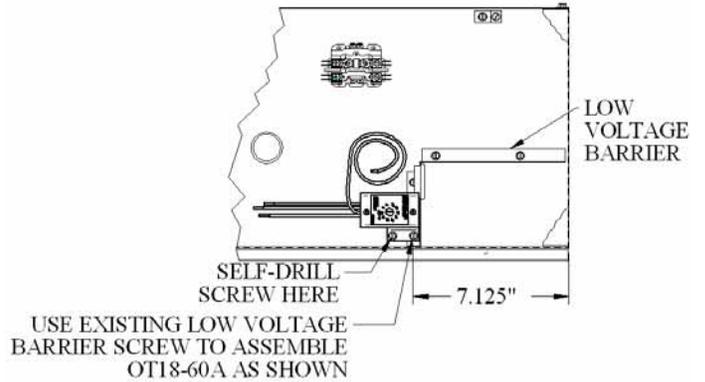
1. Remove the sheet metal screws securing the unit control box cover.
2. Install the OT18-60A Outside Thermostat using the supplied bracket and self-drilling screws (see Figures 3 through 9.). **NOTE:** Early split, packaged cooling and heat pump units, refer to Figures 3 through 6. AS*, D*, GS* and SS* split cooling and heat pump units, refer to Figures 7 and 8. AP*, GP*, DP* packaged cooling and heat pump units, refer to Figure 9.
3. Wire the thermostat per Figures 10, 11, 12, 13, 14, and 15.
4. Route the capillary away from live terminals to prevent electrical shorts.

NOTE: Outdoor Thermostat copper capillary will remain inside of the control box on early models. On AS*, D*, GS*, SS*, AP*, GP* and DP* models, the capillary will extend outside the control box.

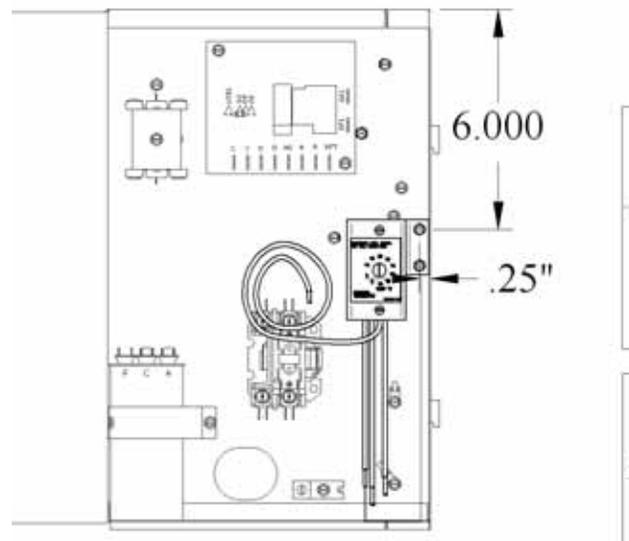
5. Set installed thermostat(s) to the proper outdoor temperature. Insert a screwdriver in slot of thermostat dial (Figure 1). Turn set point indicator as shown in figure to desired temperature setting on label (counterclockwise for WARM, clockwise for COLD).
6. Reinstall the control box cover.



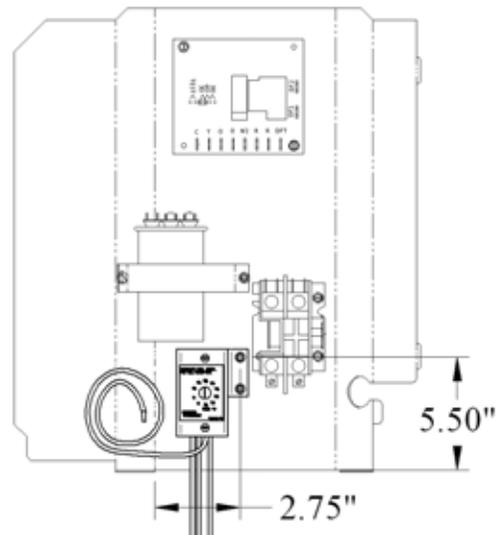
GOODMAN® BRAND
DAIKIN D*SN**
AMANA® BRAND AN* MODELS
SPLIT SYSTEM HEAT PUMP
Figure 3



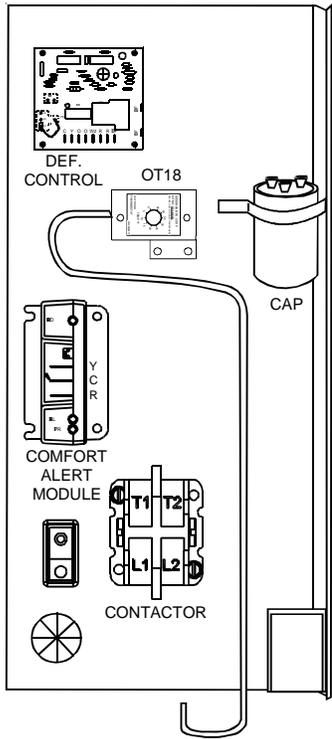
EARLY
PACKAGE SYSTEM COOLING
AND HEAT PUMP
Figure 4



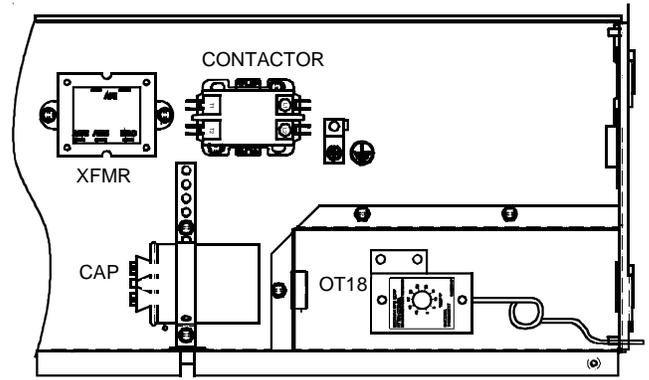
AMANA® BRAND
REMOTE HEAT PUMP
Figure 5



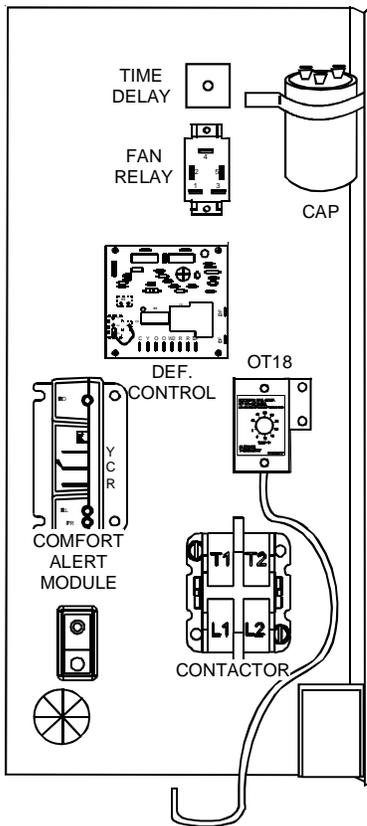
AMANA® BRAND
DAIKIN D*SA, D***TC**
REMOTE HEAT PUMP
Figure 6



**ANX*, ANZ*, ASC*, ASH*, ASX*, ASZ*, GSC*,
GSH*, SSX*, SSZ, DX*, DZ***
**SERIES SMALL BOX SPLIT SYSTEM COOLING AND HEAT
PUMPS**
Figure 7



APC*, APH*, GPC*, GPH*, DP*C*, DP*H*
**SERIES PACKAGED SYSTEM
COOLING AND HEAT PUMPS**
Figure 9



ASX*, ASZ*, DXSA*, DZ**SA*** **SERIES LARGE BOX
SPLIT SYSTEM COOLING AND HEAT PUMPS**
Figure 8



WARNING

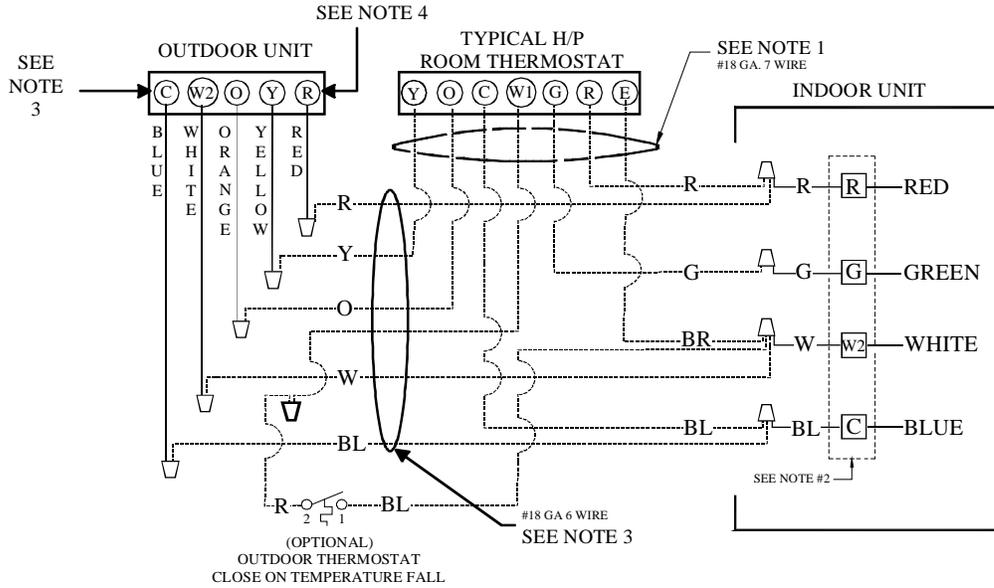
HIGH VOLTAGE

DISCONNECT ALL ELECTRICAL POWER BEFORE SERVICING. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



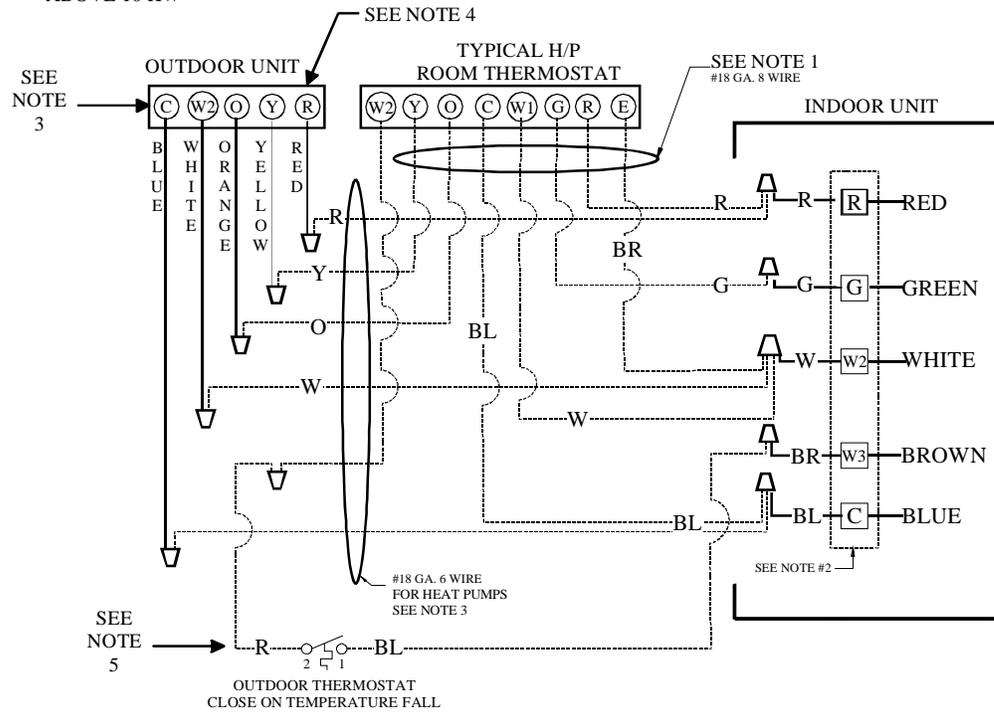
SPLIT SYSTEM WIRING DIAGRAM - SINGLE STAGE ELECTRIC HEAT 10 KW & BELOW

Figure 10



SPLIT SYSTEM WIRING DIAGRAM - TWO-STAGE ELECTRIC HEAT ABOVE 10 KW

Figure 11



NOTES:

- 1) "O" AND "E" USED ON HEAT PUMPS ONLY.
- 2) TERMINAL BLOCK MARKINGS ARE FOR AMANA® AIR HANDLERS
- 3) "R", "O" AND "W2" CONNECTIONS REQUIRED ON HEAT PUMPS ONLY.
- 4) "R" CONNECTION REQUIRED ON AMANA® AC UNITS WITH COMFORT ALERT MODULE.

- 5) CONNECT WIRE FROM TERMINAL #2 OF OUTDOOR THERMOSTAT TO THE WHITE WIRE ON THE INDOOR UNIT IF A SINGLE STAGE INDOOR THERMOSTAT IS USED.

COLOR CODES

- R --RED
- Y --YELLOW
- BL--BLUE
- BR--BROWN
- O --ORANGE
- W --WHITE
- G --GREEN

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.



WARNING

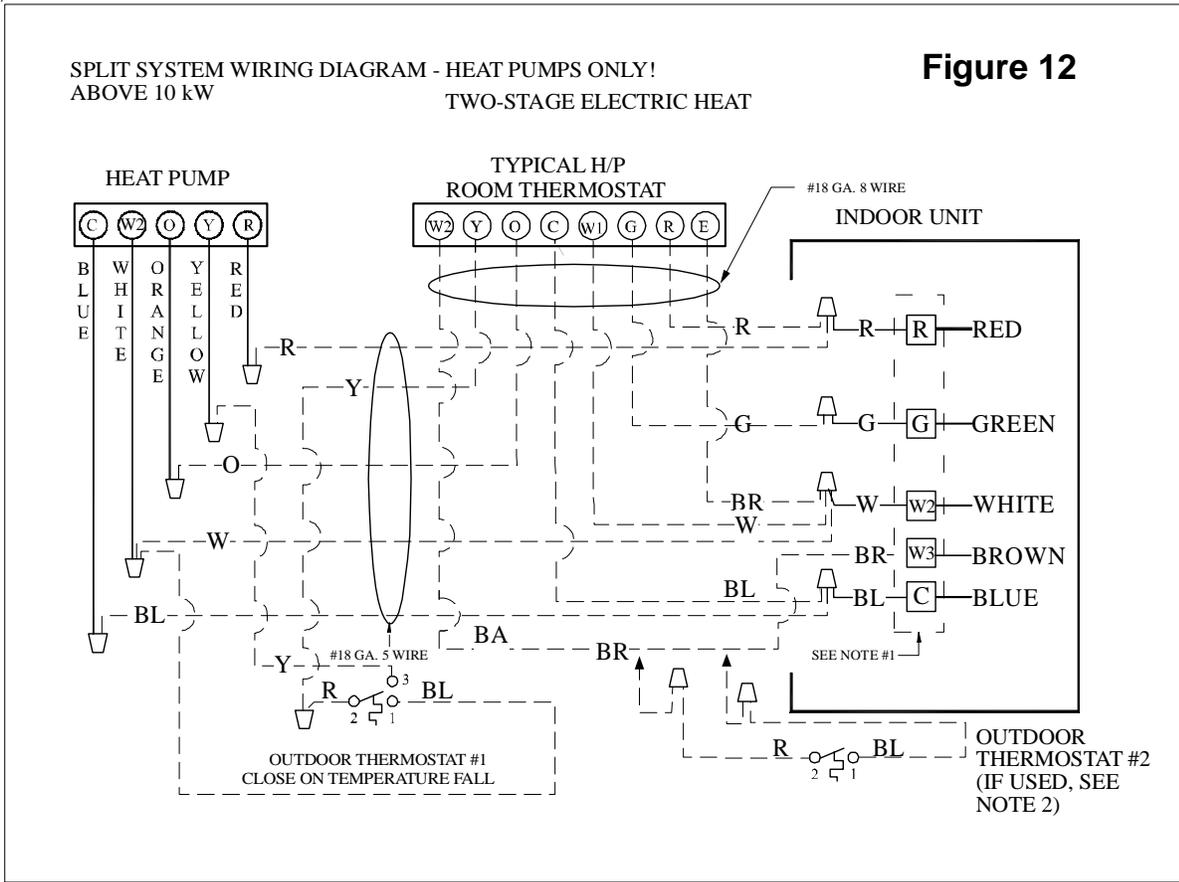
HIGH VOLTAGE

DISCONNECT ALL ELECTRICAL POWER BEFORE SERVICING. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



SPLIT SYSTEM WIRING DIAGRAM - HEAT PUMPS ONLY!
ABOVE 10 kW
TWO-STAGE ELECTRIC HEAT

Figure 12



For outdoor temperatures below 0° F with 50% or higher relative humidity, set outdoor thermostat at 0° F

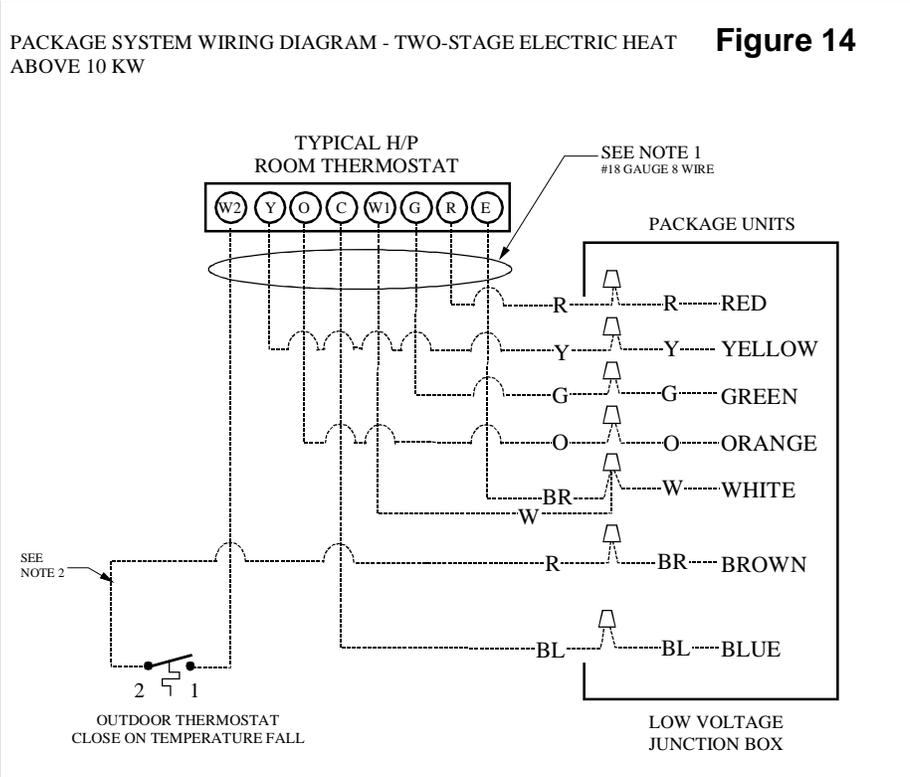
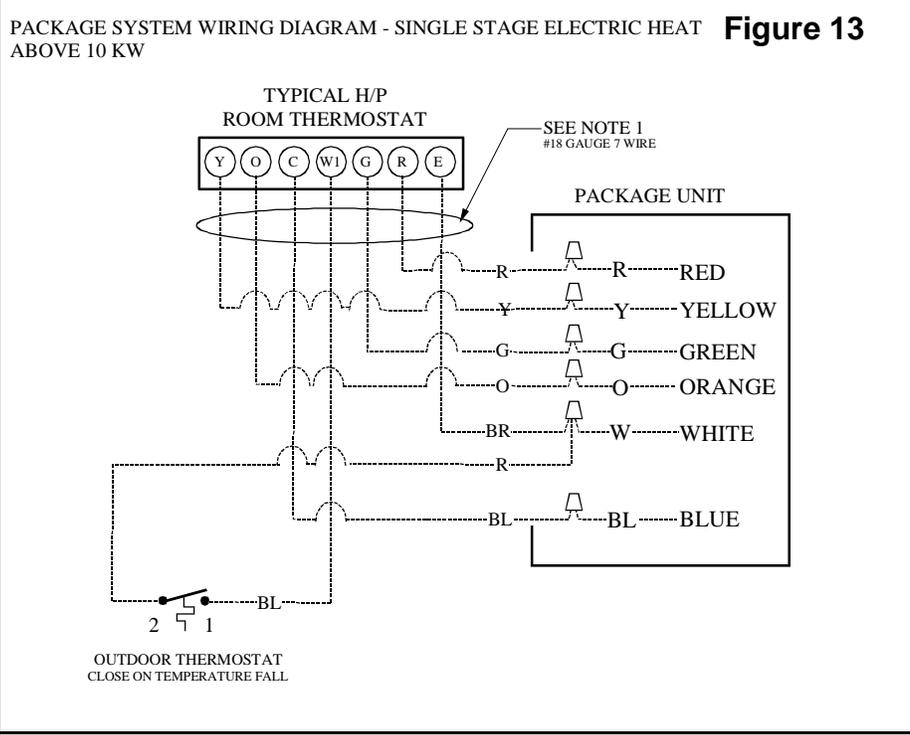
NOTE 1: TERMINAL BLOCK MARKINGS ARE FOR AMANA® BRAND & DAIKIN (DV**PTC) AIRHANDLERS.
* NOTE 2: CONNECT OT18 #2 BETWEEN W2 OF THERMOSTAT AND BROWN WIRE ON INDOOR UNIT IF USED.

COLOR CODES
R --RED
Y --YELLOW
BL-BLUE
BR-BROWN
O --ORANGE
W -WHITE
G --GREEN



WARNING

HIGH VOLTAGE
DISCONNECT ALL ELECTRICAL POWER BEFORE SERVICING. MULTIPLE POWER SOURCES MAY BE PRESENT.
FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



NOTES:

- 1) "O" AND "E" USED ON HEAT PUMPS ONLY.
- 2) IF SINGLE STAGE INDOOR THERMOSTAT IS USED, CONNECT WIRE FROM TERMINAL #1 TO THE WHITE WIRE ON PACKAGE UNITS.

Color Codes

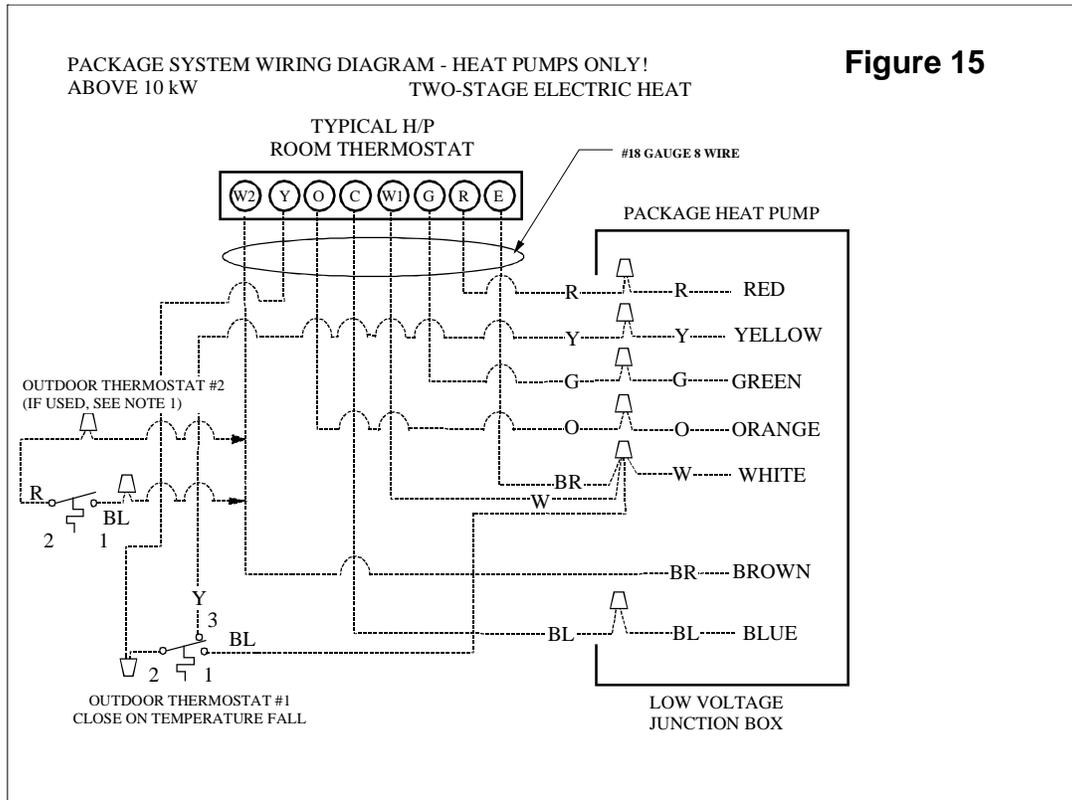
- R - Red
- Y - Yellow
- BL - Blue
- BR - Brown
- O - Orange
- W - White
- G - Green

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.



WARNING

HIGH VOLTAGE
DISCONNECT ALL ELECTRICAL POWER BEFORE SERVICING. MULTIPLE POWER SOURCES MAY BE PRESENT.
FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



For outdoor temperatures below 0° F with 50% or higher relative humidity, set outdoor thermostat at 0° F

NOTE 1: OT18 #2 CAN BE CONNECTED BETWEEN W2 OF THERMOSTAT AND BROWN WIRE IF DESIRED.

COLOR CODES

- R --RED
- Y --YELLOW
- BL-BLUE
- BR-BROWN
- O --ORANGE
- W -WHITE
- G --GREEN

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

NOTE: SPECIFICATIONS AND PERFORMANCE DATA LISTED HEREIN ARE SUBJECT TO CHANGE WITHOUT NOTICE

Quality Makes the Difference!

All of our systems are designed and manufactured with the same high quality standards regardless of size or efficiency. We have designed these units to significantly reduce the most frequent causes of product failure. They are simple to service and forgiving to operate. We use quality materials and components. Finally, every unit is run tested before it leaves the factory. That's why we know. . . **There's No Better Quality.**

Visit our website at www.daikincomfort.com, www.goodmanmfg.com or www.amana-hac.com for information on:

- Products
- Warranties
- Customer Services
- Parts
- Contractor Programs and Training
- Financing Options

5151 San Felipe, Suite 500, Houston, TX 77056

© 2003-2006, 2013 Goodman Manufacturing Company, L.P.



is a registered trademark of Maytag Corporation or its related companies and is used under license. All rights reserved.