### Goodman Communicating Controls 48C21-707 AH, 49S25-707 AC/HP, 50C51-707 IFC 2017 Launch

6/23/2017

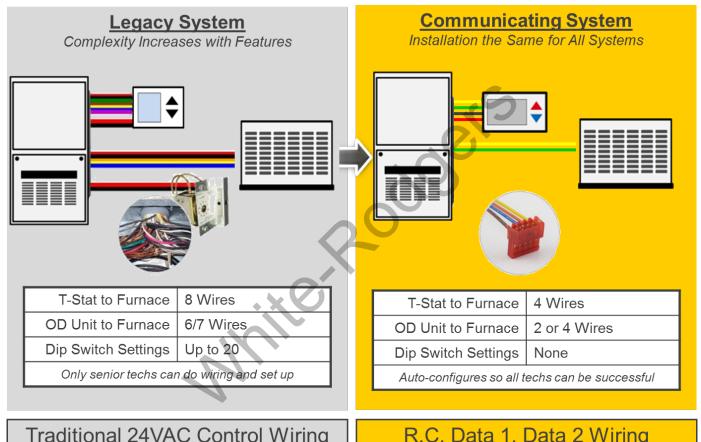


### The Target Market Why We Are Launching Goodman Comm. Products

- Daikin/Goodman/Amana is ~ 21% Market, the #2 Brand
- Two-Stage Furnaces are now ~ 30% of the Annual Units
  Produced
  - Until Last Year, the IFC in this launch was Goodman's only Two-Stage Furnace Board (They Have Since released a Two-Stage ECMx design)
- Specialized Controls only available through OEM today
- We Have the Products as an OEM Supplier



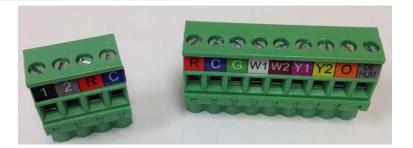
### **Defining Legacy Versus Communicating** The Goodman Boards Can Do Both



Traditional 24VAC Control Wiring

R,C, Data 1, Data 2 Wiring

Thermostat kits ship with Comm. **Tstat connector** 



**Control boards** ship with Legacy **Tstat connector** 

### Goodman ComfortNet™ Communicating Controls





49\$25-707



50C51-707



48C21-707

#### **July 2017 First Launch**



#### **Overview**

- OEM Direct Replacement Boards for Goodman/Amana/Daikin Units from the Original OEM Supplier
- 49S25 2-stage Heat Pump / AC Control
- 50C51 2-stage Furnace Control
- 48C21 Air Handler Control
- Legacy 24V or 4-wire Communicating System Capable
- Thousands Installed Since Late 2000's

#### **Features**

- Easy to Install
- Full Color Boxes
- Complete Cross Reference on Box
- Instruction Sheet
- Updated Fault Code Label

#### **Competition**

W-R	ICM	HON
✓	X	X



### 48C21-707 Air Handler Control





- Drop-in OEM Direct Replacement
- Backwards compatible with all previous versions
- No adapter harnesses or other wiring changes required
- First Launch had blink LED, then upgraded to 7-segment
  - New fault code label for 7-segment displays included

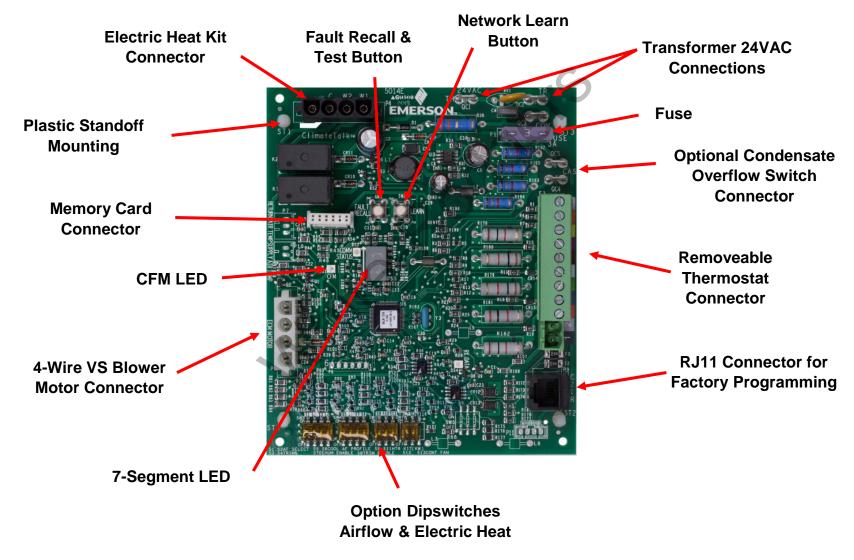
Used on Goodman, Amana, and

Daikin Products:

AVPTC, MBVC, DVPTC

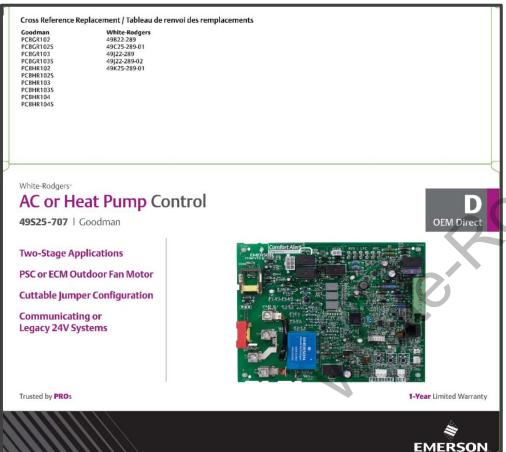


# **48C21-707** Air Handler Board Layout Some Key Parts to be Familiar With



White-Rodgers - Confidential

# 49S25-707 AC or Heat Pump Control (Also Called UC Board or "Unitary Control")



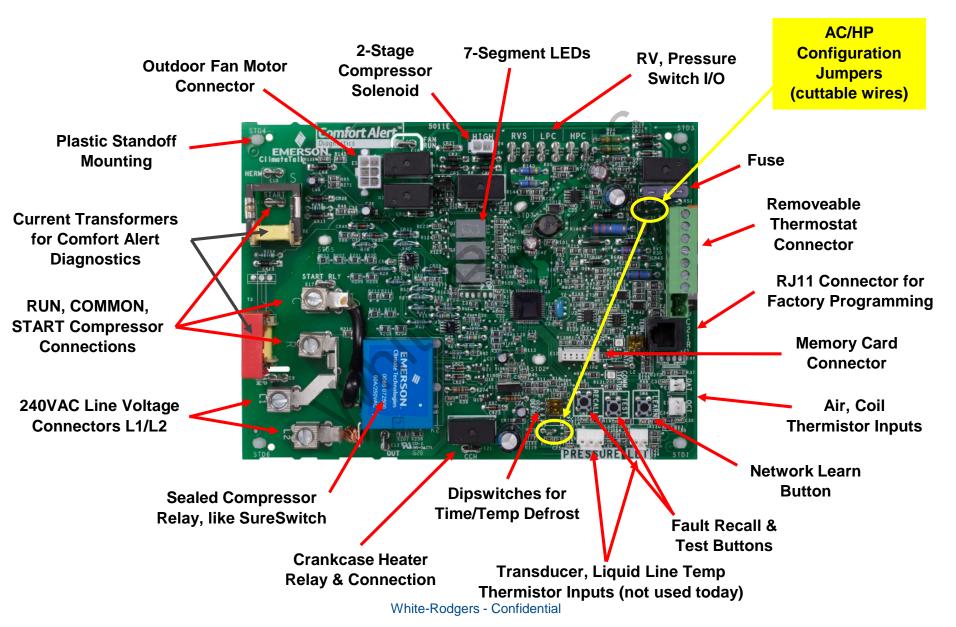
- Drop-in OEM Direct Replacement
- Backwards compatible with all previous versions
- No adapter harnesses or other wiring changes required
- First Launch had blink LEDs, then upgraded to 7-segment
  - New fault code label for 7-segment displays included
- Jumpers for AC or HP application
- Used on Goodman, Amana, and Daikin Products:

ASZC, DSZC, ASXC, DSXC, DZTC,

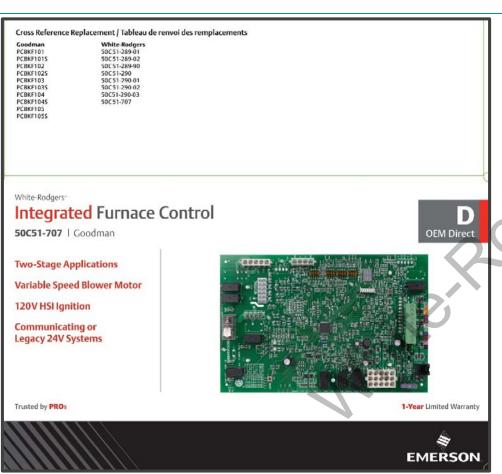
**DXTC 16 & 18 SEER** 

Goodman offers two SKU's: AC or Heat Pump W-R is offering a single, configurable SKU

# 49S25-707 AC/HP Board Layout Some Key Parts to be Familiar With



### **50C51-707** Two-Stage Hot Surface IFC



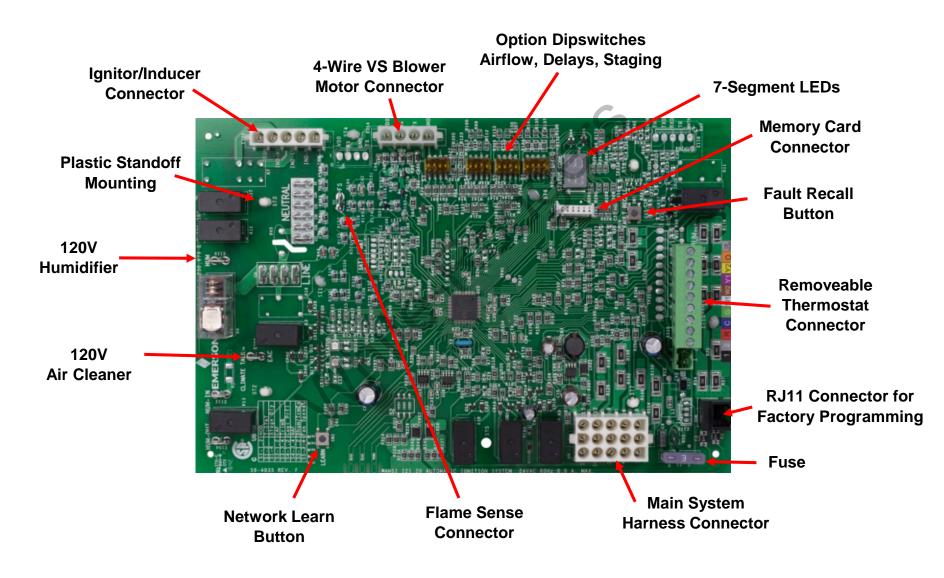
- Drop-in OEM Direct Replacement
- Backwards compatible with all previous versions
- No adapter harnesses or other wiring changes required
- Has always had 7-segment LEDs
- Used on Goodman, Amana, and Daikin Products:

GMVC, GCVC, AMVC, ACVC,

DM96VC, DC96VC



# **50C51-707** IFC Board Layout Some Key Parts to be Familiar With



# Goodman Communicating Controls In Summary

- #2 Market Share Equipment OEM
- A Solid, and Still Growing Installed Base Since 2010
- Direct Replacement Controls from the OEM Supplier
- ICM and Honeywell do not Offer