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- **DISCONNECT POWER BEFORE BEGINNING INSTALLATION. ELECTRICAL HAZARD:** Can cause electrical shock or equipment damage.
- **Must be installed by a trained , experienced technician.**
- **See device specific product guides for load specifications.**

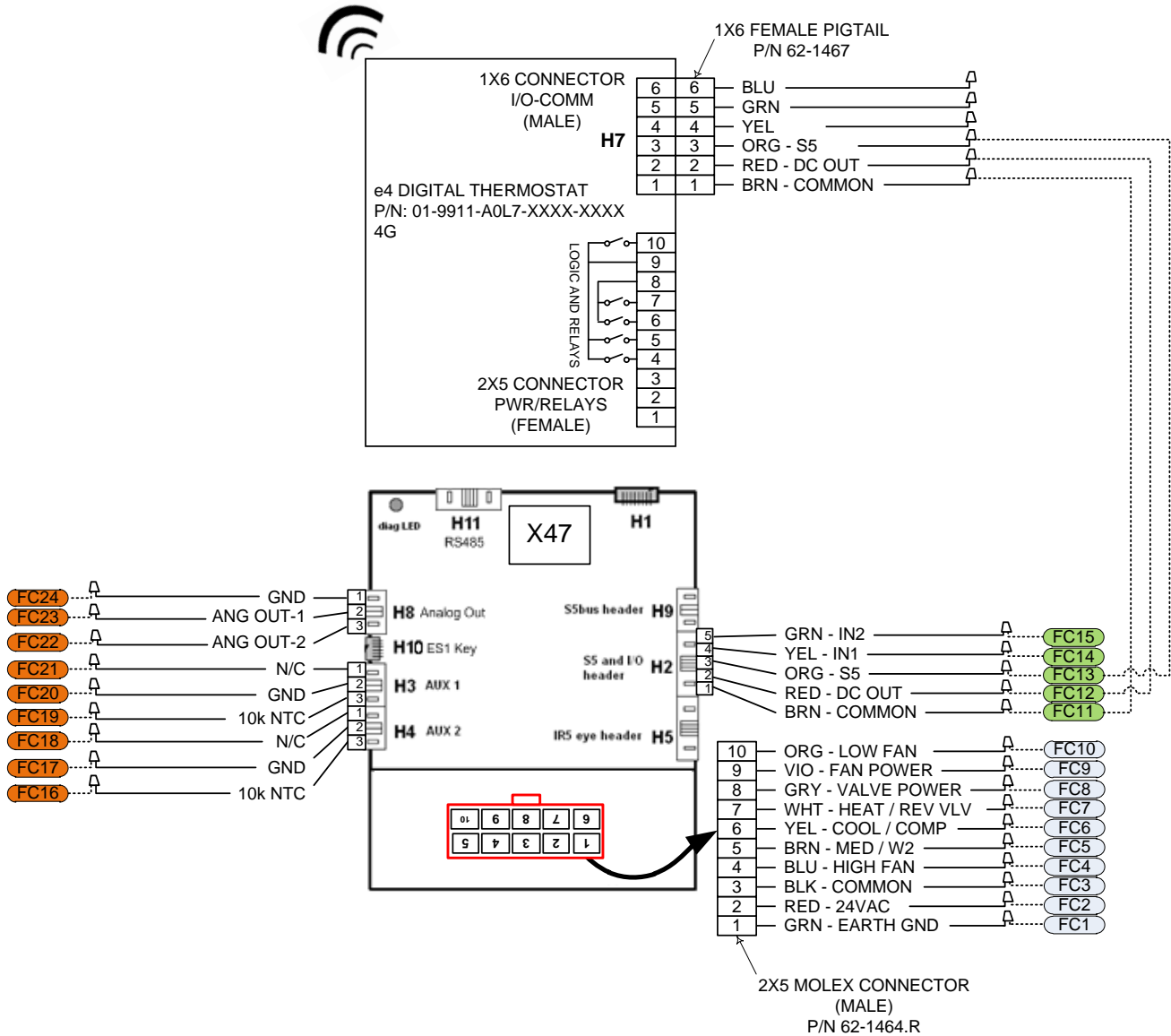
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# 1. Wiring Guide 24VAC X47 ("A3" option)

See detailed wiring guides for specific system types on the following page.



## 2. Thermostat wire connections:

### HVAC INTERFACE

Connection	Color	Function
FC1	Green	EARTH GROUND
FC2	Red	24 VAC POWER
FC3	Black	24 VAC COMMON
FC4	Blue	HIGH FAN RELAY
FC5	Brown	MED FAN RELAY/ HEAT RELAY(STAGE 2)
FC6	Yellow	COMPRESSOR CONTACTOR
FC7	White	HEAT RELAY(STAGE 1)/ REVERSING VALVE
FC8	Grey	24 VAC VALVE POWER
FC9	Violet	24 VAC FAN POWER
FC10	Orange	LOW FAN RELAY

### LOW VOLTAGE INTERFACE

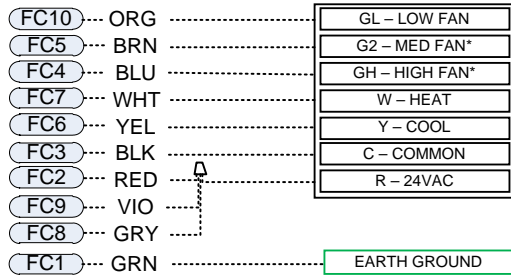
Connection	Color	Function
FC11	Brown	DC GROUND
FC12	Red	DC OUT
FC13	Orange	S5 BUS
FC14	Yellow	INPUT 1
FC15	Green	INPUT 2

### FIELD SIDE INTERFACE

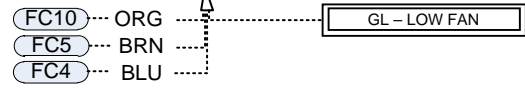
Connection	Color	Function
FC16	Orange	10K NTC (REMOTE THERMISTOR INPUT)
FC17	Red	GROUND
FC18	Brown	NO CONNECTION
FC19	Orange	10K NTC (REMOTE THERMISTOR INPUT)
FC20	Red	GROUND
FC21	Brown	NO CONNECTION
FC22	Orange	ANALOG OUTPUT-2
FC23	Red	ANALOG OUTPUT-1
FC24	Brown	GROUND

### 3. System Specific Wiring Guides

Generic Single Stage Heat/Cool

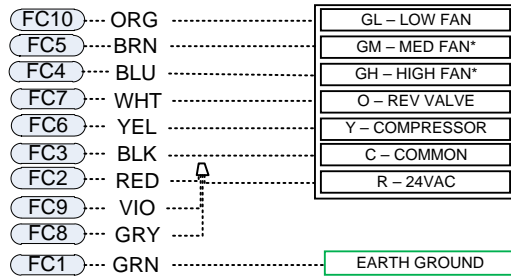


Unused Fan Outputs

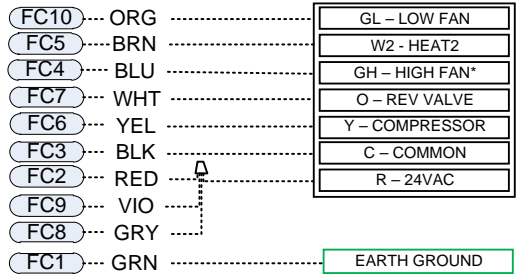


\*Unused fan outputs in any HVAC Type shall be tied to FC10

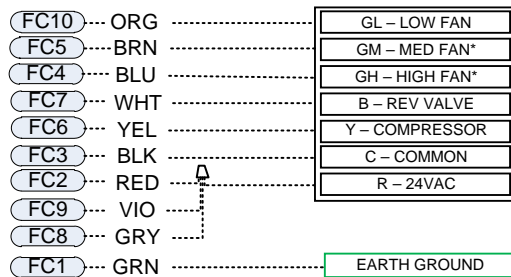
Heat Pump North (HpO)-Single Stage Heat



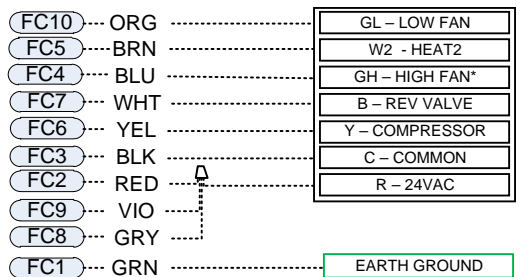
Heat Pump North (HpO)-Two Stages Heat



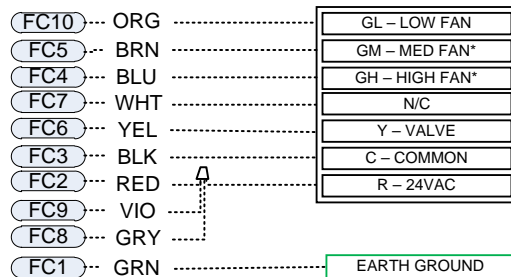
Heat Pump South (HpB)-Single Stage Heat



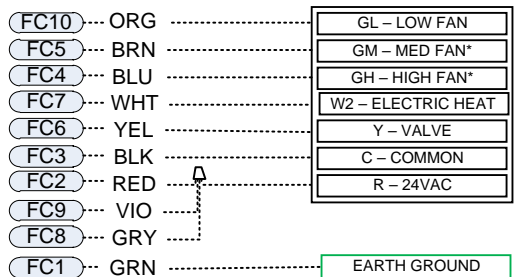
Heat Pump South (HpB)-Two Stages Heat



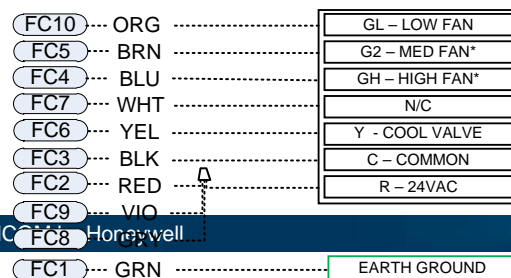
2 Pipe Change-Over



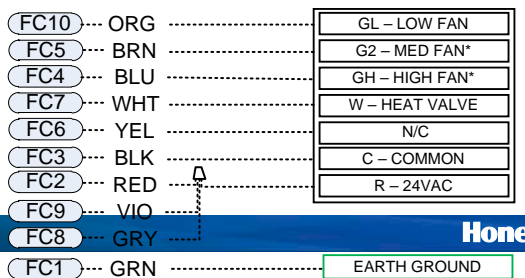
2 Pipe Change-Over with Back-up Electric Heat



Cool Only System



Heat Only System

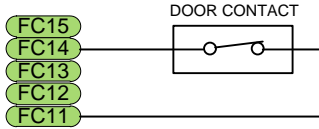




# 4. Low Voltage Wiring

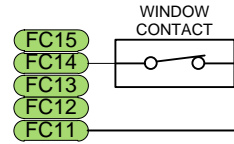
Door Contact Only

Closed Door=Closed Contact

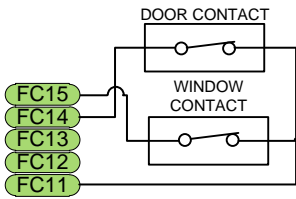


Window Contact Only

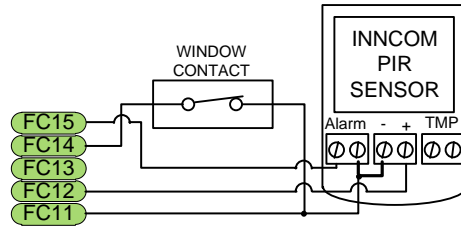
Closed Window=Closed Contact



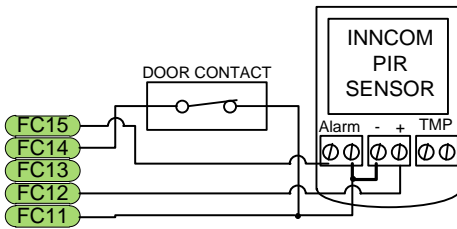
Door & Window Contact



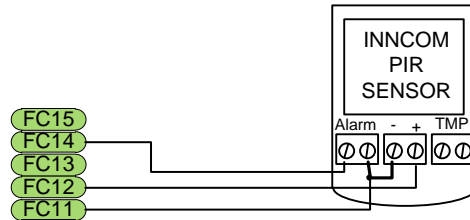
Window Contact & PIR Sensor



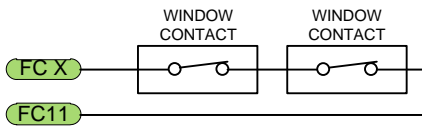
Door Contact & PIR Sensor



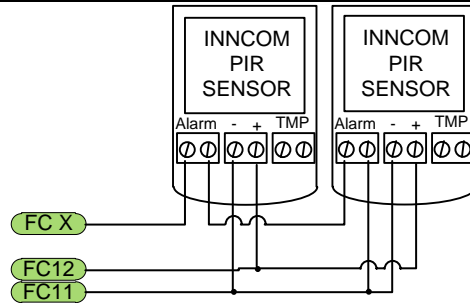
PIR Sensor Only



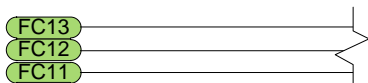
If Multiple Window Contacts in Series



If Multiple PIR Sensors in Series



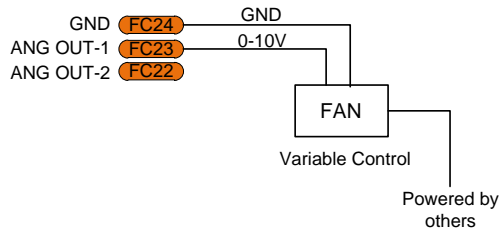
S5 Bus



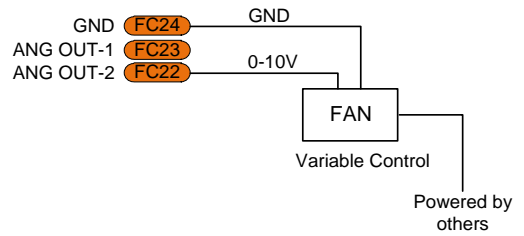
S5 BUS:  
TO OTHER S5  
ROOM DEVICES

## 5. Field Side Wiring

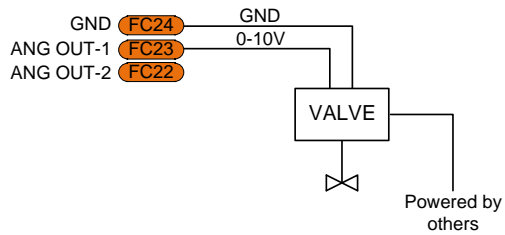
Variable Fan connection using ANG OUT-1



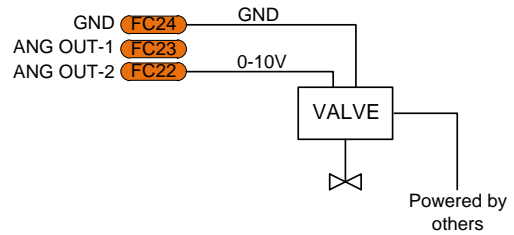
Variable Fan connection using ANG OUT-2



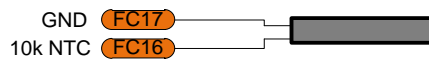
Heat/Cool Valve connection using ANG OUT-1



Heat/Cool Valve connection using ANG OUT- 2



Remote Thermistor



## 6. Document Information

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**Version**

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