**WIRING DIAGRAM**

**FIGURE 1**: CARRIER THERMIDISTAT - CONFIGURED AS 2 STAGE HEAT, 1 STAGE COOL (NON-HEATPUMP) WIRED TO ZONE 1 ON NCM-300

- **CARRIER THERMIDISTAT**
  - O/W2: HEAT STAGE 2
  - Y1/W2: N/A
  - W/W1: HEAT STAGE 1
  - Y/Y1: COOL STAGE 1
  - G: FAN
  - R: 24 VAC HOT
  - DHUM: DEHUMIDIFY
  - C: 24 VAC COMM
  - HUM: HUMIDIFY
  - B: N/A
  - S1: OUTDOOR SENSOR CONNECTION
  - S2

**BMPlus 3000**
- **ZONE 1 T’STAT INPUT**
  - C
  - W1
  - W2
  - Y
  - R
  - G
  - EM
  - ONE
  - ZONE

- **AFR1**: DPDT RELAY W/ 24VAC COIL
- **AFR1-2-NC**

**THERMIDISTAT**
- MUST BE CONFIGURED FOR 2 STAGE HEAT, 1 STAGE COOL -- NON HEATPUMP
- **AFR1-2-NC**
- **OPTIONAL**: ENERGIZES PANEL TO ONE ZONE MODE SO ALL ZONES GAIN DEHUMIDIFICATION WHEN CALLED
- **RECOMMENDED DIP SWITCH SETTINGS FOR PARTICULAR APPLICATION**
- * INDICATES REQUIRED SETTING
- **DO NOT CONNECT EQUIPMENT COMMON (’COM’ or ’C’) TO NCM-300**
- **NO JUMPER REQUIRED IF ‘RC/RH’ LINK IS NOT CUT**
- **REFER TO CARRIER INSTALLATION INSTRUCTION FOR DETAILS ON SETTING UP DEHUMIDIFICATION**
- **TO USE OAS MODE, OPTIONAL OUTDOOR AIR SENSOR (MODEL-OAS) MUST BE INSTALLED**
- **WHEN USING A HEATPUMP, IF EMERGENCY HEAT IS DESIRED, THE ON-BOARD EMERGENCY HEAT SWITCH OR AN OPTIONAL REMOTE EMERGENCY SWITCH (MODEL-RES) IS TO BE USED**
**FIGURE 4:** FK AND FV SERIES FAN COIL W/ 1-SPEED HEATPUMP

**FIGURE 5:** VARIABLE-SPEED 2-STAGE NON-CONDENSING FURNACE W/ 1-SPEED AIR CONDITIONER

**BMPlus 3000 HVAC SYSTEM OUTPUT**

RECOMMENDED DIP SWITCH SETTINGS

HP < SYSTEM > GAS
DF < HP > CONV
ON < FAN DELAY > OFF
90s < PURGE > 120s
OAS < 2ND STAGE > TIMER
OFF < 50% RULE > ON
OFF < SAS > ON
GAS < FAN > HYDRONIC

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**NOT TO SCALE**

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**FIGURE 6:** VARIABLE-SPEED 2-STAGE NON-CONDENSING FURNACE W/ 2-SPEED AIR CONDITIONER

**FIGURE 7:** VARIABLE-SPEED 2-STAGE NON-CONDENSING FURNACE W/ 1-SPEED HEATPUMP (DUAL FUEL)
FIGURE 8: VARIABLE-SPEED 2-STAGE CONDENSING FURNACE --W/O DE CONNECTION-- W/ 1-SPEED AIR CONDITIONER

FIGURE 9: VARIABLE-SPEED 2-STAGE CONDENSING FURNACE --W/O DE CONNECTION-- W/ 2-SPEED AIR CONDITIONER
FIGURE 11: VARIABLE-SPEED 2-STAGE CONDENSING FURNACE --W/ DE CONNECTION-- W/ 1-SPEED AIR CONDITIONER

FIGURE 10: VARIABLE-SPEED 2-STAGE CONDENSING FURNACE --W/O DE CONNECTION-- W/ 1-SPEED HEATPUMP (DUAL FUEL)