



JUNCTION BOX

NEUTRAL

BOX DEPICTS OPTIONAL ITEMS
 BOX DEPICTS DUAL SENSOR SINGLE HOUSING

WARNING
 DISCONNECT POWER BEFORE SERVICING

— LOW VOLTAGE
 — 120 VAC
 — HIGH VOLTAGE

BAS BOARD (AS APPLICABLE)

INTEGRATED CONTROL

LARGE CONNECTION BOARD

- 17 SHIELD
- 18 A BAS OPTION
- 19 B BAS OPTION
- 20 SHIELD
- 21 0-10V + RATE OUT
- 22 0-10V - RATE OUT
- 23 0-10V + BOILER PUMP OUT
- 24 0-10V - BOILER PUMP OUT
- 25 SYSTEM RETURN SENSOR
- 26 SYSTEM SUPPLY SENSOR
- 27 TANK SENSOR
- 28 OUTDOOR SENSOR
- 29 SHIELD
- 30 0-10V + BMS IN
- 31 0-10V - BMS IN
- 32 SYSTEM PUMP IN
- 33 SHIELD
- 34 A CASCADE
- 35 B CASCADE
- 36 SHIELD
- 37 SHIELD
- 38 SHIELD
- 39 SHIELD
- 40 SHIELD

LCD DISPLAY

WIFI DONGLE

USB CABLE
 OPTIONAL USB/WIFI EXTENSION CABLE
 OPTIONAL ETHERNET CABLE

LG CON BRD
 CN6-2 → BAS
 CN6-1 →
 CN6-3 →

SHIELDED CABLE FROM X4 TO J12 OR J23 AS APPLICABLE

SMALL CONNECTION BOARD

- 1 ALARM CONTACTS
- 2 ALARM CONTACTS
- 3 RUN-TIME CONTACTS
- 4 RUN-TIME CONTACTS
- 5 TANK THERMOSTAT
- 6 TANK THERMOSTAT
- 7 ENABLE
- 8 ENABLE
- 9 LOUVER PROVING
- 10 LOUVER PROVING
- 11 24 VAC LOUVER RELAY COIL
- 12 24 VAC LOUVER RELAY COIL
- 13 AUX SWITCH 1
- 14 AUX SWITCH 1
- 15 AUX SWITCH 2
- 16 AUX SWITCH 2

Notes:
 1. All wiring must be installed in accordance with: local, state, provincial and national code requirements per either N.E.C. in USA or C.S.A. in Canada.
 2. If any original equipment wire as supplied with the appliance must be replaced, it must be replaced with wire having same wire gauge (AWG) and rated for a minimum of 105°C. Exceptions: Replacement high voltage spark lead and shielded cables must be purchased from the factory. Use of a non-approved spark lead or shielded cables can lead to operational problems which could result in non-repairable damage to the integrated controller or other components.
 3. Actual connector block locations may vary from those shown on diagrams. Refer to actual components for proper connector block locations when using diagrams to troubleshoot unit.