

FOR MOST INSTALLATIONS (Read all steps before installation – not necessarily in order) 9/25/2023

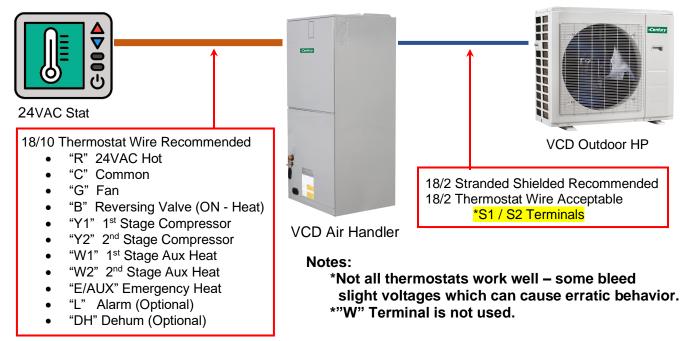
- 1. CONFIRM PROPER CHARGE, AIRFLOW, SYSTEM ORIENTATION The VCD-Series of inverter heat pumps are designed and manufactured to meet specific levels of AHRI-Rated efficiency when matched with appropriate Air Handlers and Coils. Failure to confirm may reduce energy efficiency, shorten equipment life, and cause nuisance service calls. Follow IOM information to ensure Air Handlers and Multiposition Coils are oriented in the right direction for airflow and drainage.
- Systems are pre-charged for 25' of line set. Add 0.69oz per foot of additional line set beyond the factory-charged 25' length.
- For Systems utilizing outdoor VCD heat pump systems *without* the factory match air handler, ensure airflows are nominal to the specific cfm rates in the tables provided in the IOM manual. This includes any furnace used with the match MCD-Series coil, or any other non-OEM air handler.
- 2. CHOOSE CONTROL AND WIRING STRATEGY The VCD-Series can be uniquely fitted to a variety of control options, with designated specific wiring required.



A) Complete VCD System + Proprietary Programmable VCD Controller

VCD Air Handler

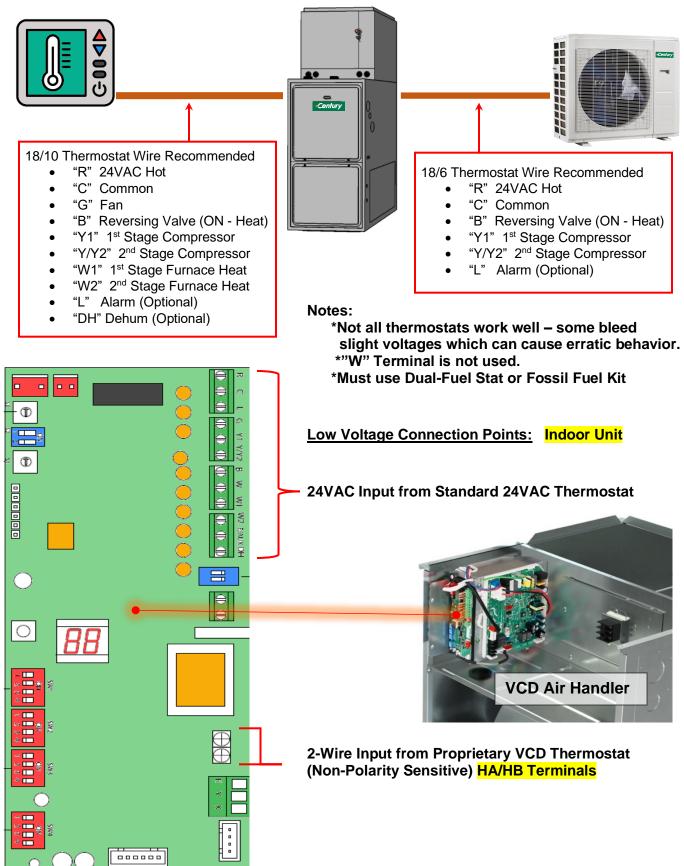
### B) Complete VCD System + 24VAC Thermostat Recommended 4H/2C HP Enabled



1900 Wellworth Jackson, MI 49203



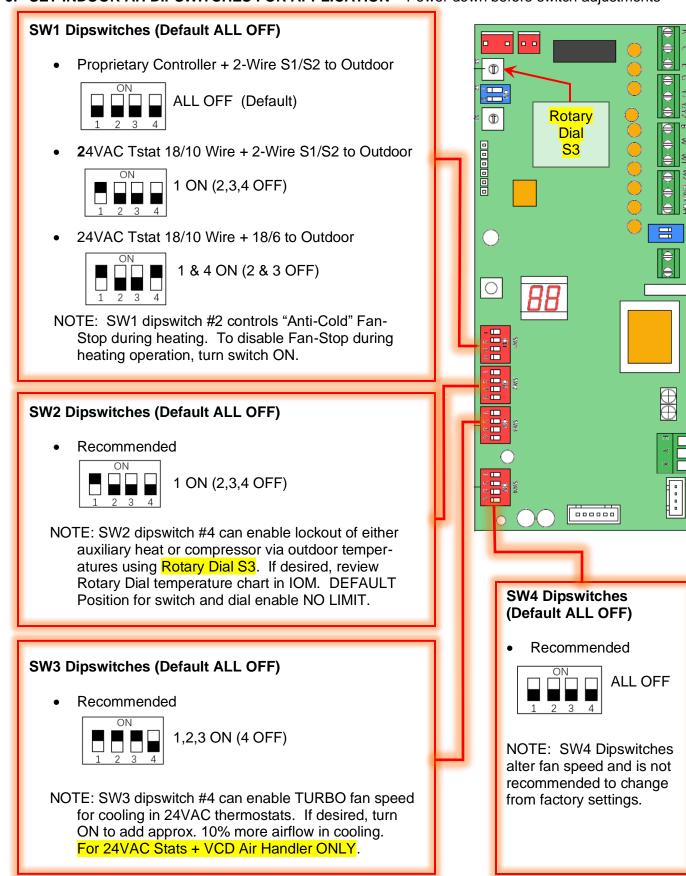
C) VCD Outdoor Unit + MCD Coil + Furnace + 24VAC Recommended Dual-Fuel Enabled Stat



### Шд VCD-Series Quick-Start Addendum 1900 Wellworth Jackson, MI 49203 Comfort Cire. Century Low Voltage Connection Points: Indoor Unit (Cont'd) . .... 0 0 VCD Air Handler 00 Ð Ð 0 0 Ð S1/S2 Output to Outdoor Unit (Polarity Sensitive) Ð ..... Low Voltage Connection Points: Outdoor Unit L1 | L2 *■Century* 2-Wire (S1/S2) or 18/6 Thermostat Wire S1/S2 Polarity-Sensitive 2-Wire Connection • "W" Heat Call - Not Normally Used • "D" Defrost Call - Not Normally Used "R" 24VAC Hot "C" Common • "B" Reversing Valve (ON - Heat) "Y1" 1st Stage Compressor "Y2" 2<sup>nd</sup> Stage Compressor "L" Alarm (Optional) \*\*WARNING: Do not apply 24VAC to S1/S2, irreversible damage will result

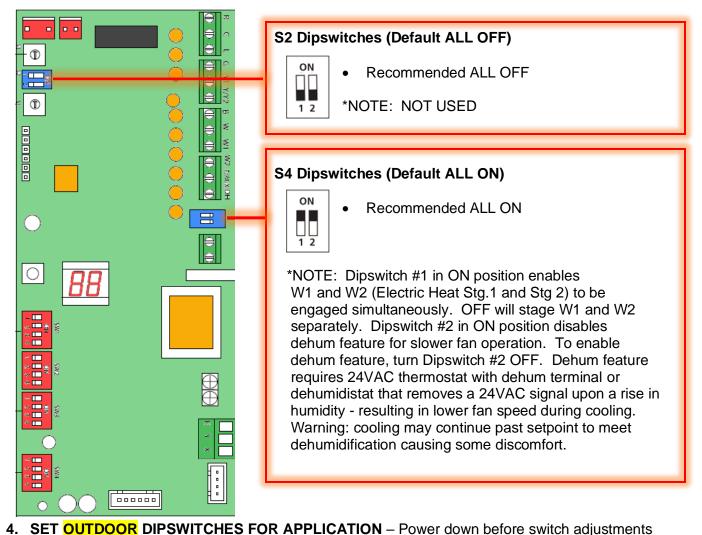


### 3. SET INDOOR AH DIPSWITCHES FOR APPLICATION - Power down before switch adjustments





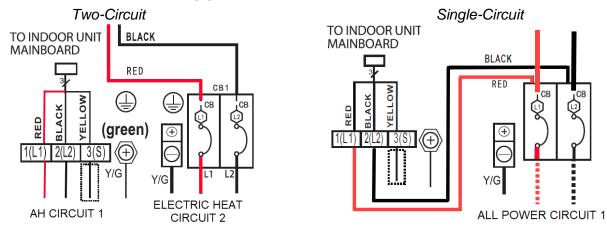
 SET INDOOR AH DIPSWITCHES FOR APPLICATION – Power down before switch adjustments (Cont'd.)







- 5. SINGLE-POINT CONNECTION KITS where code requires, single-point supply wiring can be achieved through the following means:
  - A. For 5kW, 8kW, and 10kW Electric Heat Kits in lieu of a separate circuit for the air handler, wire terminal block with appropriate gauge conductors from load-side of breaker. Reference IOM and consult local and NEC wiring guidelines/codes.



- B. For 15kW or 20kW Electric Heat Kits In lieu of a separate circuit for the air handler, wire terminal block with appropriate gauge conductors from load-side of breaker. Additionally, attach accessory UEB1-701004-JPF Single Point Connection Kit to line-side of dual breaker assembly. New Single-Circuit conductors must be the appropriate gauge for the requisite load capacity. Reference IOM and consult local and NEC wiring guidelines/codes.
  - UEB1-701004-JPF Kit contains Jumper Bar Base, Jumper Bar Cover, and Cover Screw.

