# WIRING DIAGRAM

## Two Stage Split System Heat Pump (Outdoor Section) With Outdoor Fan Relay

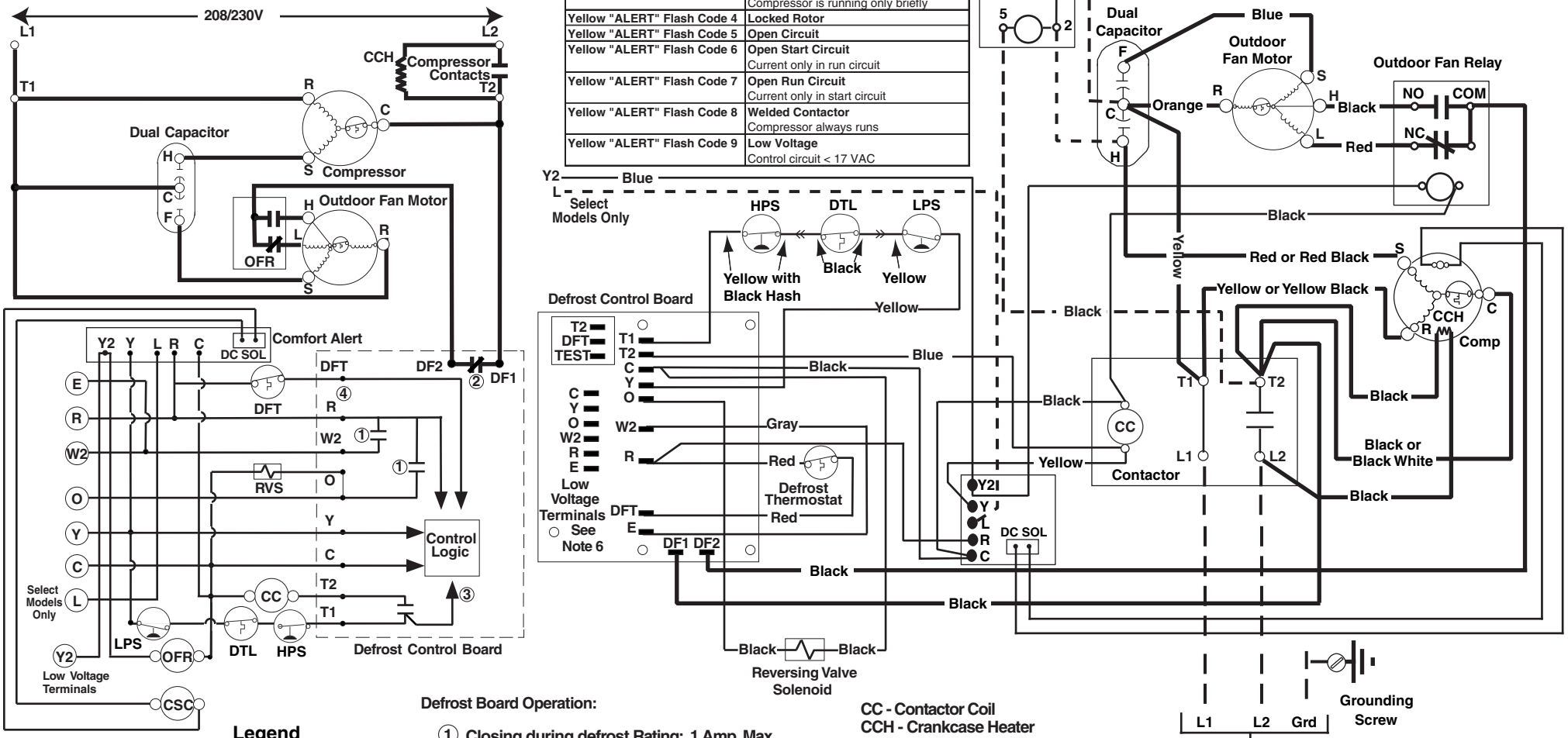
## Single Phase

**NOTES:**

1. Disconnect all power before servicing.
2. For supply connections use copper conductors only.
3. Not suitable on systems that exceed 150 volts to ground.
4. For replacement wires use conductors suitable for 105° C.
5. For ampacities and overcurrent protection, see unit rating plate.
6. Connect to 24 vac/40va/class 2 circuit. See furnace/air handler installation instructions for control circuit and optional relay/transformer kits.

| Status LED | Status LED Description |
|---|---|
| Green "POWER" | Module has power |
| Red "TRIP" | Thermostat demand signal Y1 is present, but the compressor is not running |
| Yellow "ALERT" Flash Code 1 | **Long Run Time** Compressor is running extremely long run cycle |
| Yellow "ALERT" Flash Code 2 | **System Pressure Trip** Discharge or suction pressure out of limits or compressor overloaded |
| Yellow "ALERT" Flash Code 3 | **Short Cycling** Compressor is running only briefly |
| Yellow "ALERT" Flash Code 4 | **Locked Rotor** |
| Yellow "ALERT" Flash Code 5 | **Open Circuit** |
| Yellow "ALERT" Flash Code 6 | **Open Start Circuit** Current only in run circuit |
| Yellow "ALERT" Flash Code 7 | **Open Run Circuit** Current only in start circuit |
| Yellow "ALERT" Flash Code 8 | **Welded Contactor** Compressor always runs |
| Yellow "ALERT" Flash Code 9 | **Low Voltage** Control circuit < 17 VAC |

1. Couper le courant avant de faire letretien.
2. Employez uniquement des conducteurs en cuivre.
3. Ne convient pas aux installations de plus de 150 volt a la terre.




**Legend**

| | |
|---|---|
| Field Wiring | - - - - - |
| Factory Wiring: | |
| Low Voltage | ——— |
| High Voltage | ——— |

**Defrost Board Operation:**

1. Closing during defrost.Rating: 1 Amp. Max.
2. Opens during defrost. Rating: 2 HP at 230 Vac Max.
3. Closed when "Y" is on. Open when "Y" is off. Provides "off" delay time of 5 min. when "Y" opens.
4. With DFT closed and "Y" closed, compressor run time is accumulated. Opening of DFT during defrost or interval period resets the interval to 0.

CC - Contactor Coil
CCH - Crankcase Heater
CSC - Compressor Solenoid Coil
DFT - Defrost Thermostat
DTL - Discharge Temperature Limit
HPS - High Pressure Switch
LPS - Low Pressure Switch
OFR - Outdoor Fan Relay
RVS - Reversing Valve Solenoid
* - Hard Start Kit Field Installed

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