

SPECIFICATIONS

ENVIRONMENT

- **Ambient Temperature**
 - Operating: -40°F to 176°F
 - Storage: -40°F to 185°F
- **Humidity:** 5% to 95% R.H. (non-condensing) @ +55°F
- **Vibration:** 13.8Hz @ 0.2 Gs for one hour in each orthogonal axis
- **Flame Speed:** UL 94-VO rating

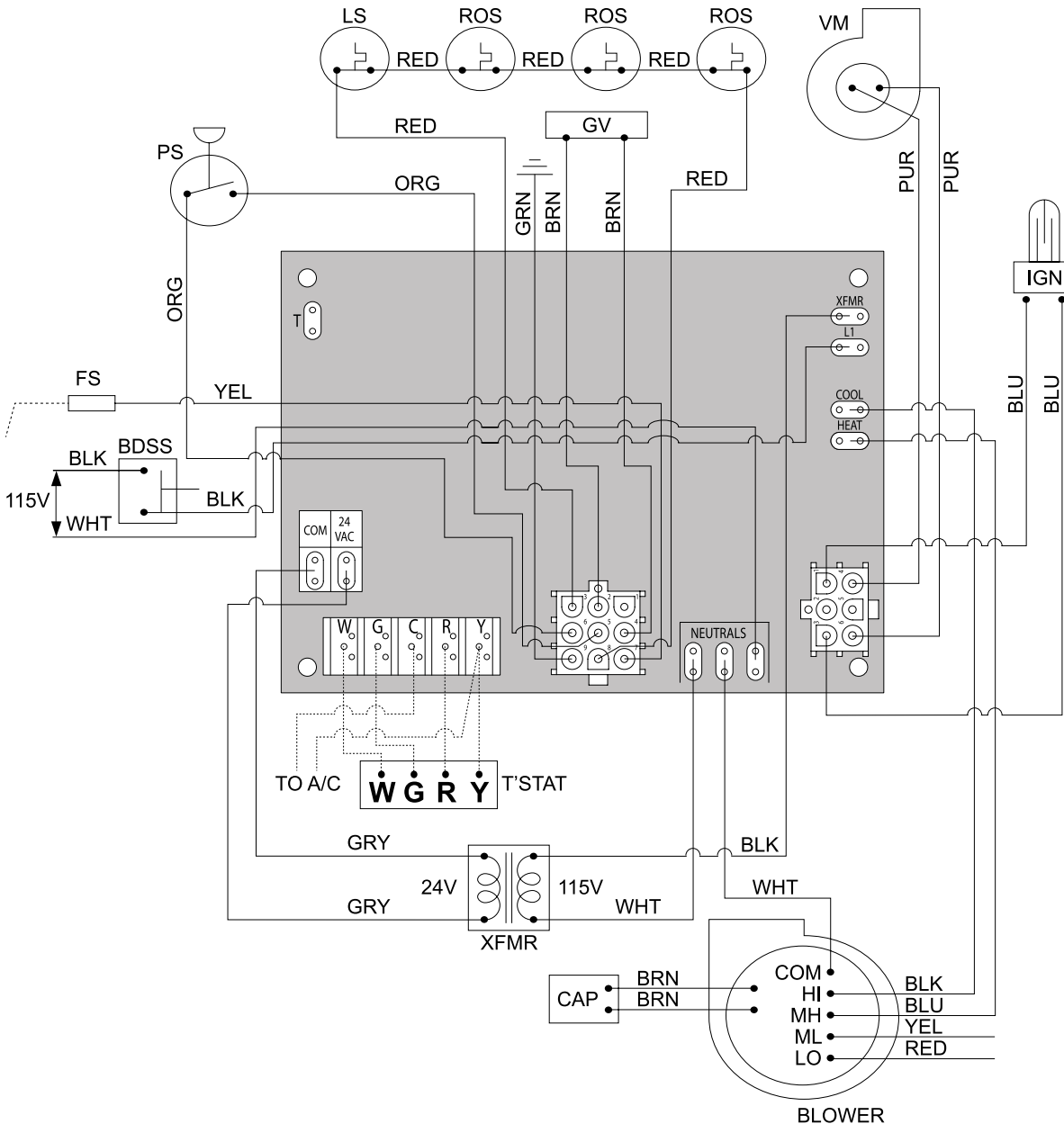
ELECTRICAL

- **Voltage Range:** Line (98 to 132 VAC) @ 60Hz
- **Ignitor:** 5A @ 120 VAC
- **Cool Blower:** 10A, 2 HP, 240 VAC
- **Heat:** 5A, 240 VAC
- **Inducer Motor:** 4A FLA, 8A LRA @ 120 VAC
- **Gas Valve:** 1.5A @ 30 VAC

TIMING

- **Trial for Ignition:** 7.0 seconds
 - Ignition activation period = 5 seconds
 - Flame establishing period = 2 seconds
- **Flame Failure Response Time:** 0.8 seconds maximum
- **Inducer Pre-Purge Time:** 5 seconds
- **Inducer Post-Purge Time:** 15 seconds
- **Ignitor Warm Up Time:** 35 seconds
- **Total Trials for Ignition:** 3 (automatically reset after one hour)
- **Heat Blower On Delay:** 90 seconds
(Field adjust: 60, 75, and 90 secs)
- **Heat Blower Off Delays:** 150 seconds
(Field adjust: 120, 150, and 180 secs)
- **Cool Blower On Delay:** 3 seconds
- **Cool Blower Off Delay:** 18 seconds

WIRING DIAGRAM



STATUS LED	
ON Solid	NO Fault
1 flash	Ignition failure (after 3 tries and start of soft lockout)
2 flashes	Pressure switch stuck closed
3 flashes	Pressure switch failed to close
4 flashes	Limit switch failed open
5 flashes	Flame present with gas valve output off
Rapid Flashing	Wrong polarity of 120VAC and Neutral

BLOWER SPEEDS		
MODEL	HEAT	COOL
05010	Med	High
05012	Low	High
07512	Med	High
07516	Low	High
10016	Med Low	High
10020	Med Low	High
12520	Med High	High
15020	High	Med High

LEGEND

- BDSS:** Blower door safety switch
- ROS:** Rollout switch
- LS:** Limit switch
- PS:** Pressure switch
- T'STAT:** Wall thermostat
- XFMR:** Transformer
- IGN:** Hot surface ignitor
- CAP:** Capacitor
- VM:** Vent motor
- GV:** Gas valve
- FS:** Flame sensor