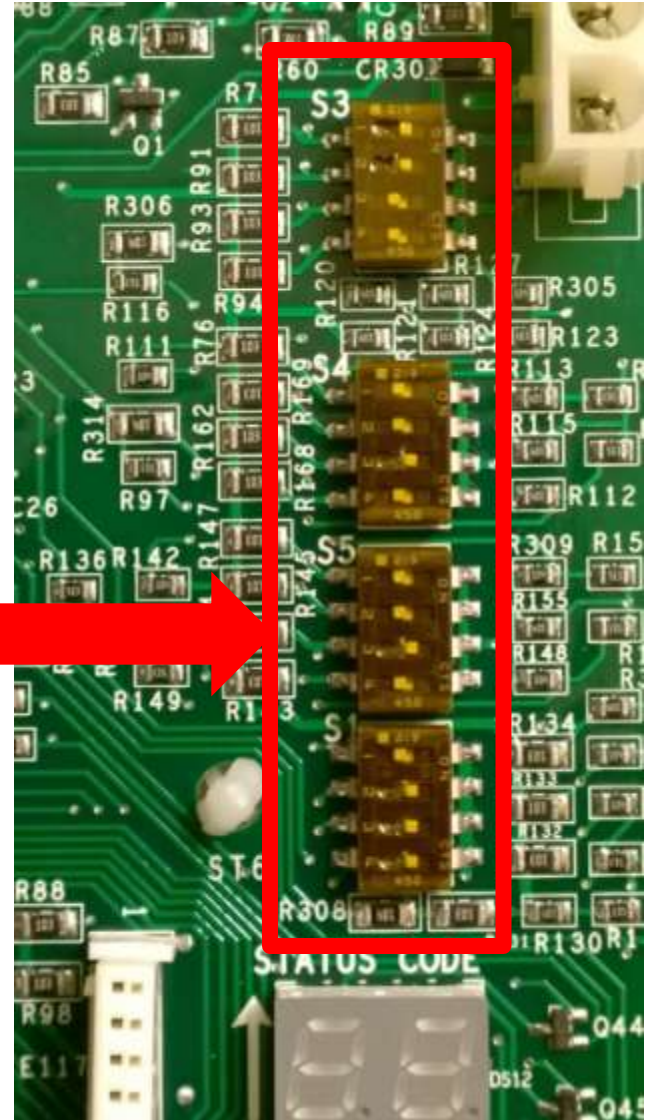


Setting Blower Speeds

Dip Switch Settings

VC Two Stage Furnaces

VC Two Stage Furnace Control



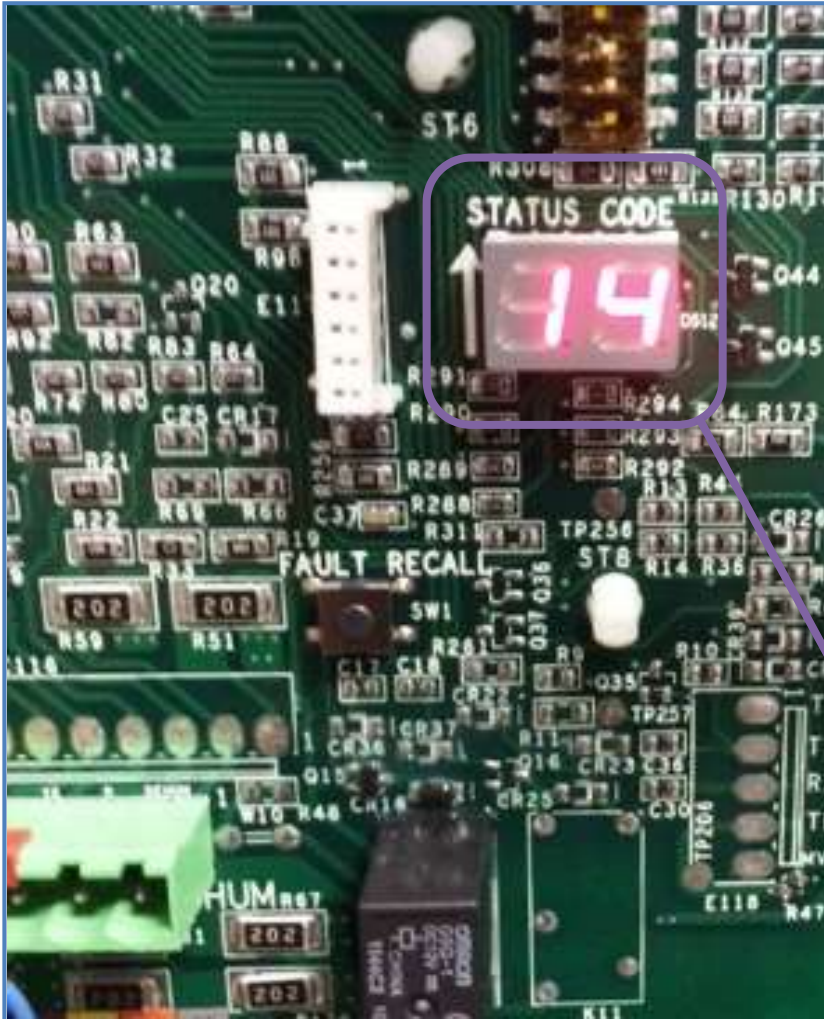
VC Furnace Dip Switch

- DIP SWITCHES MUST ONLY BE ADJUSTED WHEN UTILIZING THE LEGACY TERMINAL BLOCK WITH A 24VAC NON COMFORTNET CONTROL.



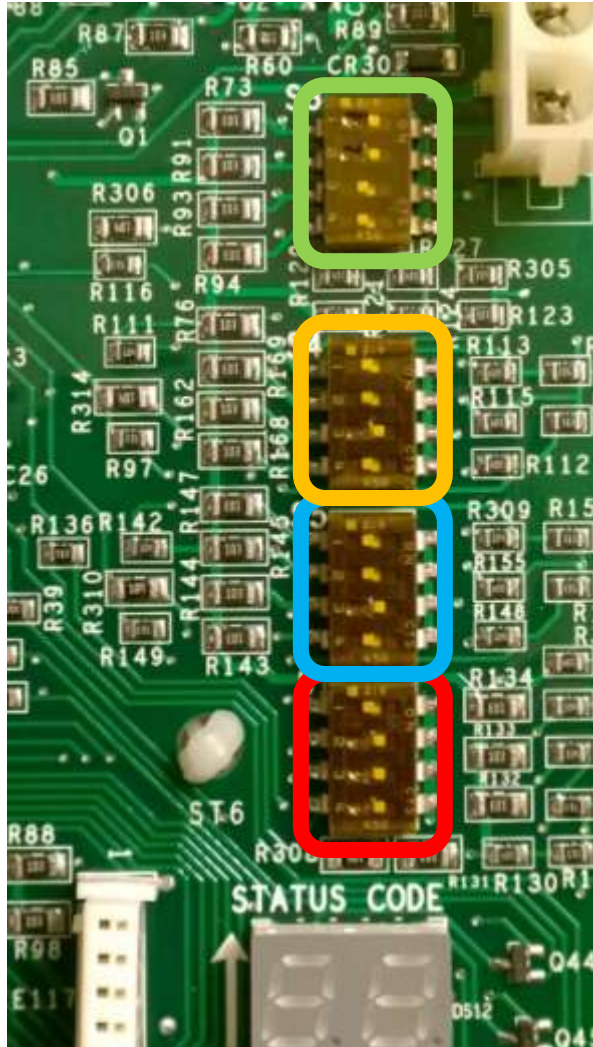
- There are 16 DIP switches on the modulating furnace IFC.
- Switches are located in 4 sections vertically, each having 4 switches.
- Switch banks are designated S1, S5, S4, S3 .

Blower Speed Adjust



- Use the dual 7-segment LED display adjacent to the dip switches to obtain the approximate **airflow quantity**.
- The **airflow quantity** is **displayed** as a number on the display, **rounded to the nearest 100 CFM**.
- The **display alternates airflow delivery** indication and the **operating mode** indication.
- If the airflow being delivered is 1375, CFM, the LED display will indicate a "14." (for 1400 CFM)

Chart



| Switch Bank | Purpose | Function | Dip Switch | | | |
|-------------|-------------------|------------------------|------------|-----|-----|-----|
| | | | 1 | 2 | 3 | 4 |
| S1 | Heating Off Delay | 90 | Off | Off | | |
| | | 120 | On | Off | | |
| | | 150 | Off | On | | |
| | | 180 | On | On | | |
| | Thermostat Setup | 2 Stage Stat | | | On | On |
| | | 2 Stage Stat | | | On | Off |
| | | 1 Stg Stat 5 min delay | | | Off | Off |
| | | 1 Stg Stat auto delay | | | Off | On |
| S3 | Cooling Airflow | A | Off | Off | | |
| | | B | On | Off | | |
| | | C | Off | On | | |
| | | D | On | On | | |
| | Trim | Add 5% | | | Off | Off |
| | | Minus 5% | | | On | Off |
| | | Add 10% | | | Off | On |
| | | Minus 10% | | On | On | |
| S4 | Ramping Profile | A | Off | Off | | |
| | | B | On | Off | | |
| | | C | Off | On | | |
| | | D | On | On | | |
| | Heating Airflow | A | | | Off | Off |
| | | B | | | On | Off |
| | | C | | | Off | On |
| | | D | | On | On | |
| S5 | Dehum | Disabled | Off | | | |
| | | Enabled | On | | | |
| | Trim | Disabled | | Off | | |
| | | Enabled | | On | | |
| | Continuous Fan | 25% | | | Off | Off |
| | | 50% | | | On | Off |
| | | 75% | | | Off | On |
| | | 100% | | On | On | |

Heating Off Delay (S1)

- The integrated control module provides a selectable heat off delay function.
- The heat off delay period may be set to 90, 120, 150, 180 seconds using the DIP switches or jumper provided on the control module.
- The delay is factory shipped at 150 seconds but may be changed to suit the installation requirements and/or homeowner preference.

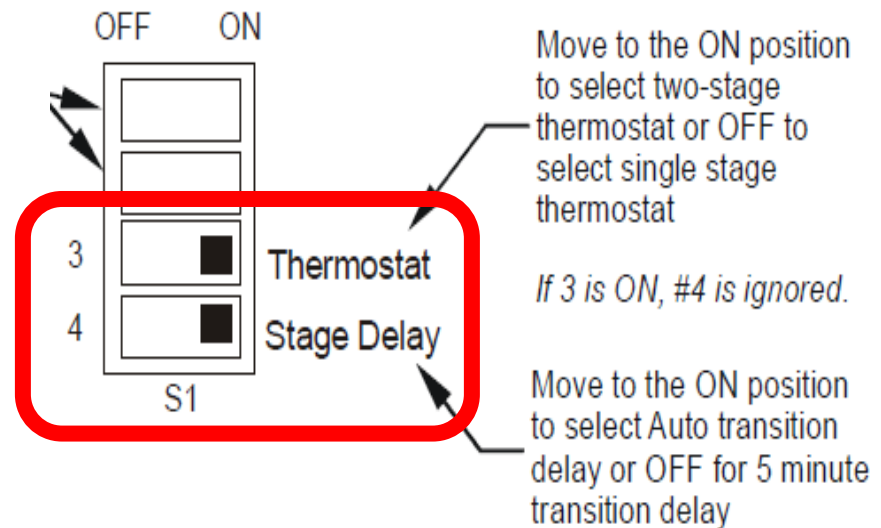
| Switch Bank: S1 | | |
|------------------------|----------------|----------|
| Heat OFF Delay | DIP Switch No. | |
| | 1 | 2 |
| 90 seconds | OFF | OFF |
| 120 seconds | ON | OFF |
| 150 seconds* | OFF | ON |
| 180 seconds | ON | ON |

(*Indicates factory setting)

Heat Off Delay Dip Switches

Thermostat Setup (S1)

- A single-stage thermostat with only one heating stage may be used to control this furnace.
- The application of a single-stage thermostat offers a *timed* transition from low to high fire.
- The furnace will run on low stage for a fixed period of time before stepping up to high stage to satisfy the thermostat's call for heat.
- The delay period prior to stepping up can be set at either a fixed 5 minute time delay or a load based variable time between 1 and 12 minutes (AUTO mode).
- If the AUTO mode is selected, the control averages the cycle times of the previous three cycles and uses the average to determine the time to transition from low stage to high stage.
- To use a single-stage thermostat, turn off power to the furnace, move the thermostat selection DIP switch to the OFF position.
- Set the desired transition time by setting the transition delay DIP switch to the desired ON/OFF position. Turn power back on.



Cooling Airflow (S3)

| Model | Tap | Low Stage Cool | High Stage Cool |
|-----------------|-----|----------------|-----------------|
| D GMVC960403BN | A | 403 | 596 |
| | B | 527 | 796 |
| | C | 675 | 974 |
| | D | 803 | 1192 |
| DA GMVC960403BN | A | 398 | 599 |
| | B | 557 | 817 |
| | C | 696 | 1007 |
| | D | 810 | 1212 |
| DA GMVC960403BN | A | 403 | 629 |
| | B | 540 | 806 |
| | C | 705 | 1023 |
| | D | 819 | 1230 |

| Switch Bank: S3 | | |
|------------------------------|-----------------|-----|
| Cooling Speed Taps | DIP Sw itch No. | |
| | 1 | 2 |
| A | OFF | OFF |
| B | ON | OFF |
| C | OFF | ON |
| D* | ON | ON |
| (*Indicates factory setting) | | |

Trim (S3)

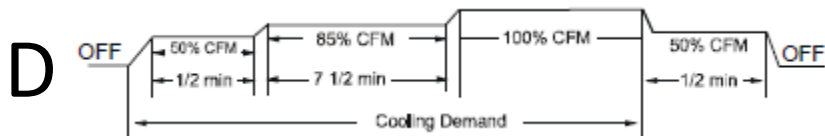
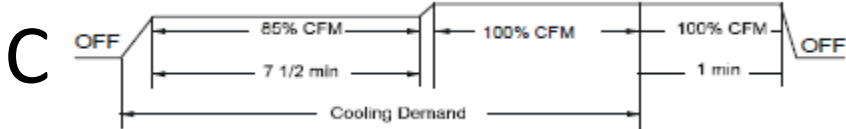
| Switch Bank: S3 | | |
|------------------------------|----------------|-----|
| Adjust Taps | DIP Switch No. | |
| | 3 | 4 |
| + 5%* | OFF | OFF |
| - 5% | ON | OFF |
| + 10% | OFF | ON |
| - 10% | ON | ON |
| (*Indicates factory setting) | | |

- To enable adjustments and select -5, 5, -10 or 10% trim, you must set dip switch S5-2 to ON.

- If S5-2 is in the OFF

| | | | | | | |
|----|----------------|----------|------------|------------|-----------|------------|
| S5 | Dehum | Disabled | Off | | | |
| | | Enabled | On | | | |
| | Trim | Disabled | | Off | | |
| | | Enabled | | On | | |
| | Continuous Fan | 25% | | | Off | Off |
| | | 50% | | | On | Off |
| | | 75% | | | Off | On |
| | | 100% | | | On | On |

Ramping Profile (S4)



| Switch Bank: S4 | | |
|------------------------------|----------------|-----|
| Ramping Profiles | DIP Switch No. | |
| | 1 | 2 |
| A* | OFF | OFF |
| B | ON | OFF |
| C | OFF | ON |
| D | ON | ON |
| (*Indicates factory setting) | | |

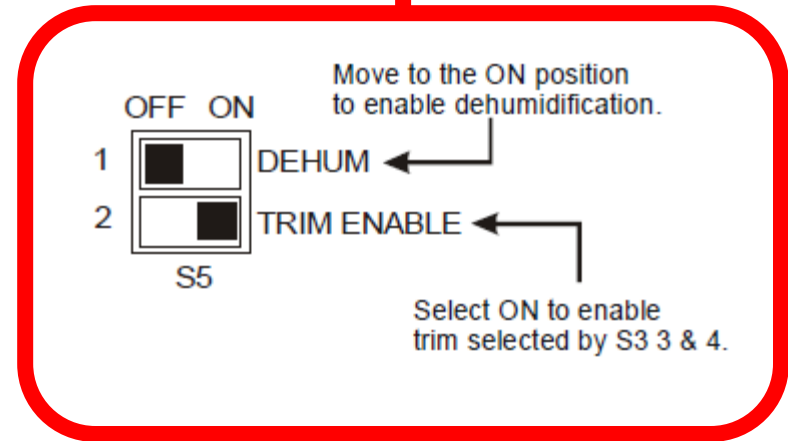
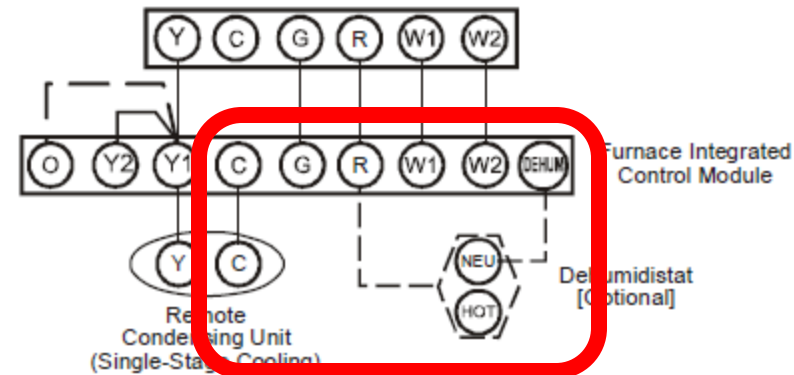
Heating Airflow (S4)

| Model | Tap | Low Stage Heat | High Stage Heat |
|-----------------|-----|----------------|-----------------|
| D GMVC960403BN | A | 731 | 990 |
| | B | 800 | 1085 |
| | C | 850 | 1185 |
| | D | 911 | 1279 |
| DI GMVC960403BN | A | 667 | 953 |
| | B | 740 | 1059 |
| | C | 808 | 1158 |
| | D | 881 | 1260 |
| DI GMVC960403BN | A | 855 | 1202 |
| | B | 923 | 1316 |
| | C | 1033 | 1389 |
| | D | 1063 | 1396 |

| Switch Bank S4 | | |
|-----------------------------|----------------|-----|
| Heating Airflow | DIP Switch No. | |
| | 3 | 4 |
| A | OFF | OFF |
| B* | ON | OFF |
| C | OFF | ON |
| D | ON | ON |
| (Indicates factory setting) | | |

Dehumidification

- The optional usage of a dehumidistat allows the furnace's circulator blower to operate at a slightly lower speed (85% of desired speed) during a combined thermostat call for cooling and dehumidistat call for dehumidification.
- This can be done through an independent dehumidistat or through a thermostat's DEHUM terminal (if available).
- This lower blower speed enhances dehumidification of the conditioned air as it passes through the AC coil. For proper function, a dehumidistat applied to this furnace must operate on 24 VAC and utilize a switch which *opens on humidity rise*.

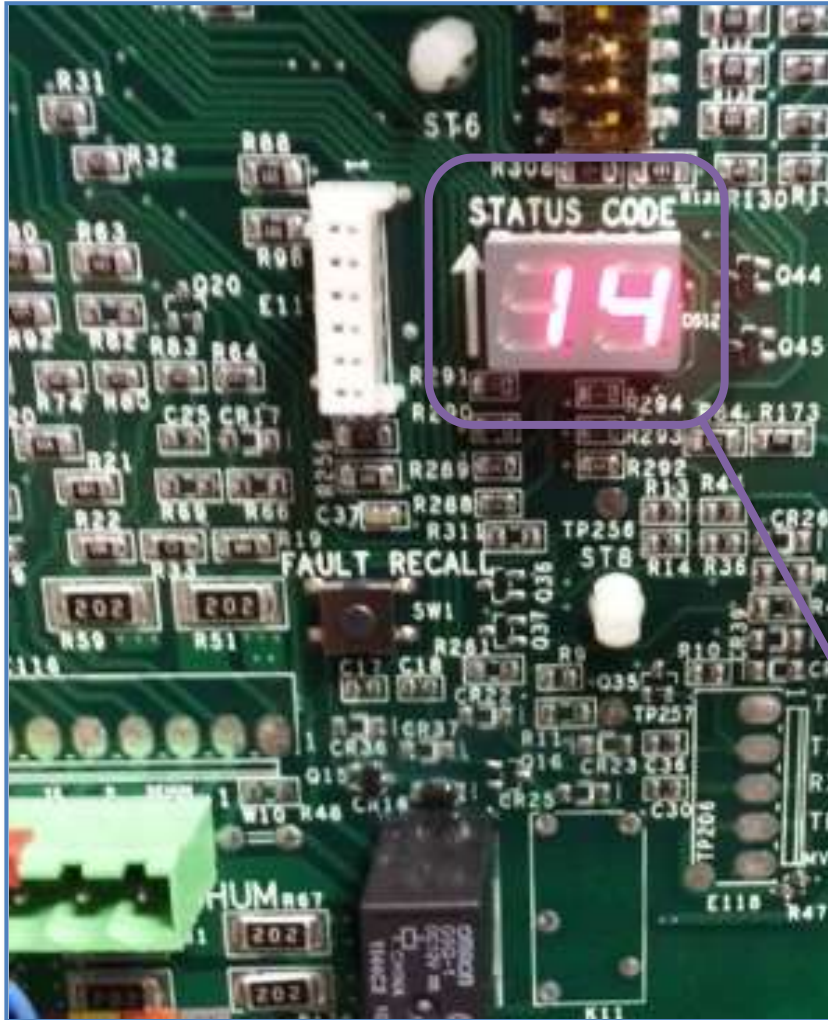


Continuous Fan (S5)

- Switches 3 & 4 on S5 Bank
- Select continuous fan speed 25%, 50%, 75%, 100%

| | | | | | | |
|----|----------------|----------|------------|------------|-----------|------------|
| S5 | Dehum | Disabled | Off | | | |
| | | Enabled | On | | | |
| | Trim | Disabled | | Off | | |
| | | Enabled | | On | | |
| | Continuous Fan | 25% | | | Off | Off |
| | | 50% | | | On | Off |
| | | 75% | | | Off | On |
| | | 100% | | | On | On |

Blower Speed Adjust



- Use the dual 7-segment LED display adjacent to the dip switches to obtain the approximate **airflow quantity**.
- The **airflow quantity is displayed** as a number on the display, **rounded to the nearest 100 CFM**.
- The **display alternates airflow delivery** indication and the **operating mode** indication.
- If the airflow being delivered is 1375, CFM, the LED display will indicate a “14.” (for 1400 CFM)