

# Technical Support Manual

## ***Four Position Furnace***

### **Models**

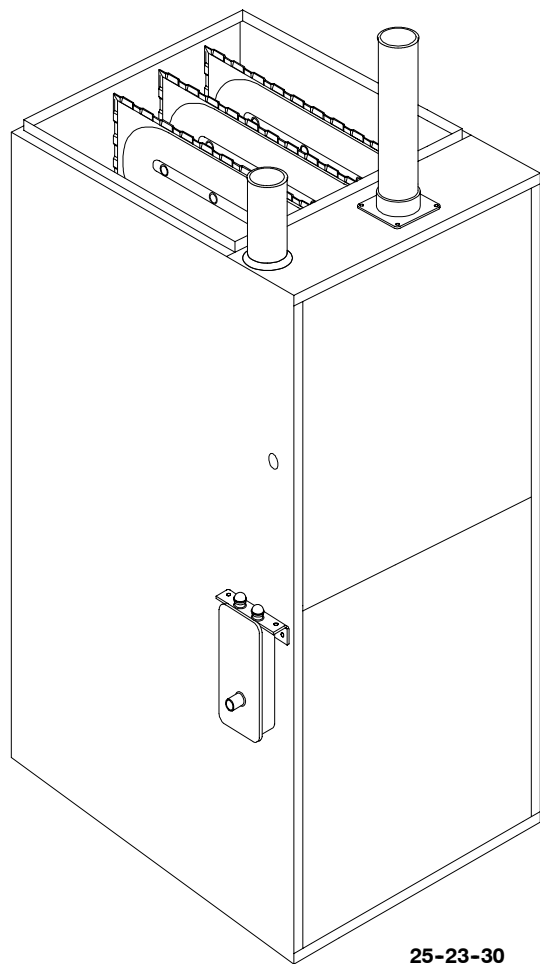
**Dual Certified**

**\*9MPV050F12A**

**\*9MPV075F12A**

**\*9MPV100J20A**

**\*9MPV125L20A**



**25-23-30**

**Manufactured by:**

***International Comfort Products Corporation (USA)***

***Lewisburg, TN USA 37091***

**Save This Manual For Future Reference**

## MODEL NUMBER IDENTIFICATION GUIDE

|                                                                                                                               |                                                                                                          |                                                                                                                                                                                      |                                                                                                                                                                                   |              |          |            |          |                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|------------|----------|------------------------------------------------------------------------------------------------------------|
| <b>Brand Identifier</b><br>T = Tempstar<br>C = Comfortmaker/Keeprite<br>H = Heil/Arcoaire<br>N = Non-Brand Specific (Generic) | <b>Efficiency Identifier</b><br>8 = Non-Condensing, 80+% Gas Furnace<br>9 = Condensing, 90+% Gas Furnace | <b>Installation Configuration</b><br>UP = Upflow    DN = Downflow    UH = Upflow/Horizontal<br>HZ = Horizontal    DH = Downflow/Horizontal<br>MP = Multiposition, Up/Down/Horizontal | <b>Major Design Feature</b><br>1 = One (Single) Pipe    N = Single Stage<br>2 = Two Pipe    P = PVC Vent<br>D = 1 or 2 Pipe    T = Two Stage<br>L = Low NOx    V = Variable Speed | <b>0 7 5</b> | <b>F</b> | <b>1 2</b> | <b>A</b> | <b>#</b><br><b>Engineering Rev.</b><br>Denotes minor changes                                               |
|                                                                                                                               |                                                                                                          |                                                                                                                                                                                      |                                                                                                                                                                                   |              |          |            |          | <b>Marketing Digit</b><br>Denotes minor change                                                             |
|                                                                                                                               |                                                                                                          |                                                                                                                                                                                      |                                                                                                                                                                                   |              |          |            |          | <b>Cooling Airflow</b><br>08 = 800 CFM<br>12 = 1200 CFM<br>14 = 1400 CFM<br>16 = 1600 CFM<br>20 = 2000 CFM |
|                                                                                                                               |                                                                                                          |                                                                                                                                                                                      |                                                                                                                                                                                   |              |          |            |          | <b>Cabinet Width</b><br>B = 15.5" Wide<br>F = 19.1" Wide<br>J = 22.8" Wide<br>L = 24.5" Wide               |
|                                                                                                                               |                                                                                                          |                                                                                                                                                                                      |                                                                                                                                                                                   |              |          |            |          | <b>Input (Nominal MBTUH)</b>                                                                               |

\* Denotes brand (T, H or C)

| Manufacturers Number (Mfr No -See Rating Plate) |                                                                                               |                                       |                    |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------|--------------------|
| ALL Models                                      |                                                                                               |                                       |                    |
| Specifications                                  |                                                                                               |                                       |                    |
| General                                         | Gas Type                                                                                      | Nat                                   | LP                 |
|                                                 | Transformer Size (VA)<br>T'stat Heat Anticipator                                              | 40<br>.10                             |                    |
| Gas & Ignition                                  | Gas Valve Regulation Type                                                                     | HW SV 9541<br>SNAP                    | HW SV 9541<br>SNAP |
|                                                 | Manifold Press.    Hi Fire (" WC)<br>Lo Fire (" WC)                                           | 3.5<br>1.7                            | 10.0<br>4.9        |
|                                                 | Pilot Orifice Size                                                                            | .018                                  | .011               |
|                                                 | Ignition Type/Series                                                                          | HW HSP                                |                    |
| Combustion                                      | Standard Outlet Temp. (°)<br>Comb. Blower (MFD/Volts)                                         | <140<br>4/370                         |                    |
| Limits & Controls                               | Fan Control (Type)<br>Fan Control                    On<br>(Timed-secs)                   Off | HW ST9162A<br>30/60<br>60,100,140,180 |                    |
| Gas Conversion Kits All Models                  | Nat to LP            *1011789<br>LP to Nat            *1011787<br>*Order from Service Parts   |                                       |                    |

| Specifications                               |         |                      |      |               |      |               |      |               |      |
|----------------------------------------------|---------|----------------------|------|---------------|------|---------------|------|---------------|------|
|                                              |         | *9MPV050F12A         |      | *9MPV075F12A  |      | *9MPV100J20A  |      | *9MPV125L20A  |      |
| <b>General</b>                               |         |                      |      |               |      |               |      |               |      |
| Input (Btuh) Std/Alt.                        | Hi Fire | 50,000               |      | 75,000        |      | 100,000       |      | 125,000       |      |
|                                              | Lo Fire | 35,000               |      | 53,000        |      | 70,000        |      | 87,500        |      |
| Output (Btuh) Std/Alt.                       | Hi Fire | 46,000               |      | 69,000        |      | 92,000        |      | 115,000       |      |
|                                              | Lo Fire | 32,200               |      | 48,800        |      | 64,400        |      | 80,500        |      |
| Temp. Rise (°F)                              | Hi Fire | 35-65                |      | 40-70         |      | 40-70         |      | 40-70         |      |
|                                              | Lo Fire | 35-65                |      | 40-70         |      | 40-70         |      | 40-70         |      |
| Electrical (Volts/Hz/FLA)                    |         | 115/60/9.8           |      | 115/60/8.9    |      | 115/60/9.0    |      | 115/60/11.2   |      |
| <b>Gas &amp; Ignition</b>                    |         |                      |      |               |      |               |      |               |      |
| Gas Type                                     |         | Nat.                 | L.P. | Nat.          | L.P. | Nat.          | L.P. | Nat.          | L.P. |
| Std. Main Orifices (No/Size)                 |         | 2/42                 | 2/54 | 3/42          | 3/54 | 4/42          | 4/54 | 5/42          | 5/54 |
| <b>Combustion</b>                            |         |                      |      |               |      |               |      |               |      |
| Flue Outlet Size (Inches)                    |         | 2                    |      | 2             |      | 3             |      | 3             |      |
| Std. Outlet Temp (° F)                       |         | <140                 |      | <140          |      | <140          |      | <140          |      |
| <b>@ Blower / @ Transition Box (Hi Fire)</b> |         |                      |      |               |      |               |      |               |      |
| Std. Pressures (" of WC)                     |         |                      |      |               |      |               |      |               |      |
| 5' No Elbows                                 |         | -1.80 / -2.60        |      | -1.80 / -2.60 |      | -1.80 / -2.60 |      | -1.80 / -2.60 |      |
| 40' +5-90° DWV Elbows                        |         | -1.30 / -2.30        |      | -1.30 / -2.30 |      | -1.70 / -2.50 |      | -1.70 / -2.50 |      |
| <b>@ Blower / @ Transition Box (Lo Fire)</b> |         |                      |      |               |      |               |      |               |      |
| Std. Pressures (" of WC)                     |         |                      |      |               |      |               |      |               |      |
| 5' No Elbows                                 |         | -1.20 / -1.90        |      | -1.20 / -1.90 |      | -1.20 / -1.90 |      | -1.30 / -2.30 |      |
| 40' +5-90° DWV Elbows                        |         | -1.00 / -1.80        |      | -1.00 / -1.80 |      | -1.00 / -1.80 |      | -1.20 / -2.20 |      |
| <b>Limits &amp; Controls</b>                 |         |                      |      |               |      |               |      |               |      |
| Rollout Switch (° F)                         |         | 300                  |      | 300           |      | 300           |      | 300           |      |
| Limit Control Setting (° F)                  |         | 260                  |      | 210           |      | 240           |      | 190           |      |
| Std. Pressure Sw. (Part No)                  |         | 1013515              |      | 1013515       |      | 1013515       |      | 1013166       |      |
| Blower Switch Pressure (Close)               |         | 0.95                 |      | 0.95          |      | 0.95          |      | 1.30          |      |
| Blower Switch Pressure (Open)                |         | 0.80                 |      | 0.80          |      | 0.80          |      | 1.10          |      |
| Transition Switch Pressure (Close)           |         | 1.70                 |      | 1.70          |      | 1.70          |      | 1.80          |      |
| Transition Switch Pressure (Open)            |         | 1.50                 |      | 1.50          |      | 1.50          |      | 1.60          |      |
| High Altitude Pressure Sw. (Part No)         |         | 1013165              |      | 1013165       |      | 1013165       |      | 1013157       |      |
| Blower Switch Pressure (Close)               |         | 0.70                 |      | 0.70          |      | 0.70          |      | 0.85          |      |
| Blower Switch Pressure (Open)                |         | 0.55                 |      | 0.55          |      | 0.55          |      | 0.70          |      |
| Transition Switch Pressure (Close)           |         | 1.40                 |      | 1.40          |      | 1.40          |      | 1.70          |      |
| Transition Switch Pressure (Open)            |         | 1.20                 |      | 1.20          |      | 1.20          |      | 1.50          |      |
| <b>Blower Data</b>                           |         |                      |      |               |      |               |      |               |      |
| Type & Size                                  |         | 11-8                 |      | 11-10         |      | 11-10         |      | 11-10         |      |
| Motor Amps/Rpm                               |         | 9.8/1050             |      | 8.9/1080      |      | 11.2/1150     |      | 11.2/1150     |      |
| Motor Type/H.p.                              |         | DC <sup>1</sup> /1/2 |      | DC/1          |      | DC/1          |      | DC/1          |      |
| Filter Type                                  |         | 16x25x1              |      | 16x25x1       |      | 16x25x1       |      | 16x25x1 (2)   |      |
| Min. Cool Cap. (Tons)                        |         | 1.5                  |      | 1.5           |      | 2             |      | 2             |      |
| Max. Cool Cap. (Tons)                        |         | 3                    |      | 3             |      | 5             |      | 5             |      |

# Circulation Air Blower Data - \*9MPV

## Heating, Cooling & Continuous Airflow Settings

### Continuous Blower (CFM) @ 0.10" Static

| Switch Settings |    | Furnace Model |     |      |      |
|-----------------|----|---------------|-----|------|------|
| #1              | #2 | 50K           | 75K | 100K | 125K |
| 0*              | 0* | 540           | 540 | 700  | 703  |
| 0               | 1  | 660           | 660 | 860  | 821  |
| 1               | 0  | 780           | 780 | 1020 | 1000 |
| 1               | 1  | 900           | 900 | 1180 | 1160 |

\*Factory Setting

### Hi Heat Air Temperature Adjustment (° F)\*\*

| Switch Settings |     |     | Furnace Model |     |      |      |
|-----------------|-----|-----|---------------|-----|------|------|
| #3              | #4  | #5  | 50K           | 75K | 100K | 125K |
| 0**             | 0** | 0** | 0             | 0   | 0    | 0    |
| 0               | 0   | 1   | 3             | 2   | 3    | 2    |
| 0               | 1   | 0   | 6             | 4   | 5    | 6    |
| 0               | 1   | 1   | 14            | 6   | 9    | 11   |
| 1               | 0   | 0   | 17            | 11  | 13   | 13   |
| 1               | 0   | 1   | -8            | -4  | -4   | -5   |
| 1               | 1   | 0   | -13           | -4  | -7   | -5   |
| 1               | 1   | 1   | -17           | -4  | -9   | -5   |

\*Factory setting

\*\*Approximate air temperature change from factory setting @ 0.20" static on high heat ).

### Lo Heat Air Temperature Adjustment (° F)\*\*

| Switch Settings |     |     | Furnace Model |     |      |      |
|-----------------|-----|-----|---------------|-----|------|------|
| #3              | #4  | #5  | 50K           | 75K | 100K | 125K |
| 0**             | 0** | 0** | 0             | 0   | 0    | 0    |
| 0               | 0   | 1   | 1             | 1   | 1    | 6    |
| 0               | 1   | 0   | 4             | 2   | 2    | 8    |
| 0               | 1   | 1   | 7             | 3   | 5    | 12   |
| 1               | 0   | 0   | 11            | 6   | 8    | 16   |
| 1               | 0   | 1   | -7            | -4  | -5   | -1   |
| 1               | 1   | 0   | -11           | -6  | -9   | -4   |
| 1               | 1   | 1   | -15           | -9  | -11  | -7   |

\*Factory setting

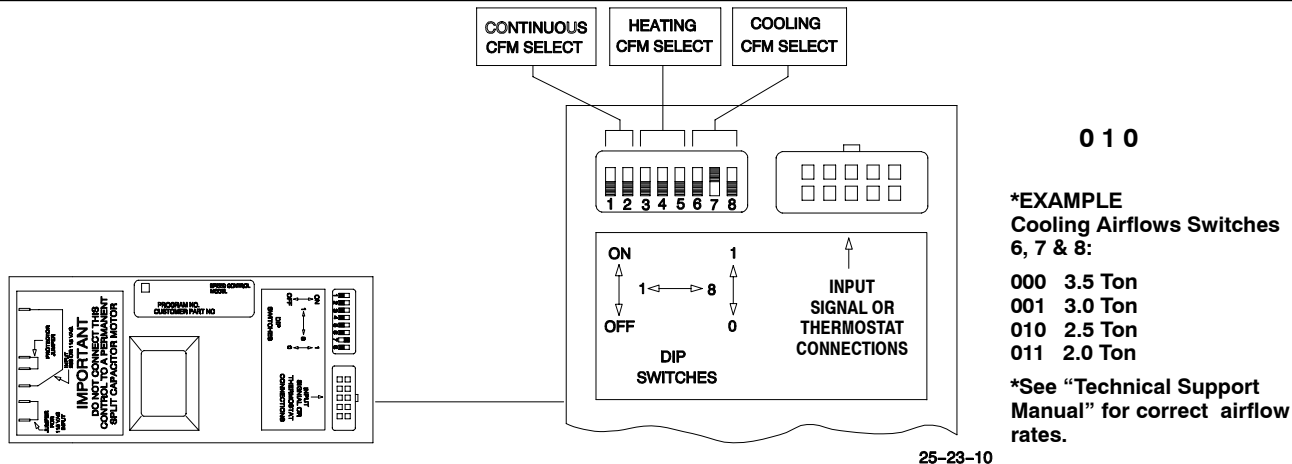
\*\*Approximate air temperature change from factory setting @ 0.20" static on high heat ).

### Cooling (CFM) @ 0.50" Static

| Switch Settings |    |    | Furnace Model |      |      |      |
|-----------------|----|----|---------------|------|------|------|
| #6              | #7 | #8 | 50K           | 75K  | 100K | 125K |
| 0*              | 0* | 0* | 1170          | 1395 | 2095 | 2059 |
| 0               | 0  | 1  | 1098          | 1197 | 1875 | 1859 |
| 0               | 1  | 0  | 991           | 1096 | 1642 | 1700 |
| 0               | 1  | 1  | 894           | 1000 | 1489 | 1621 |
| 1               | 0  | 0  | 807           | 907  | 1255 | 1410 |
| 1               | 0  | 1  | 697           | 799  | 1013 | 1191 |
| 1               | 1  | 0  | 621           | 650  | 830  | 986  |
| 1               | 1  | 1  | 556           | 543  | 750  | 800  |

\*Factory setting

## Blower Motor Settings



# Circulation Air Blower Data - \*9MPV

## Heating, Cooling & Continuous Airflow Settings

Figure 1

### \*9MPV050 COOLING (CFM VS. EXTERNAL STATIC PRESSURE)

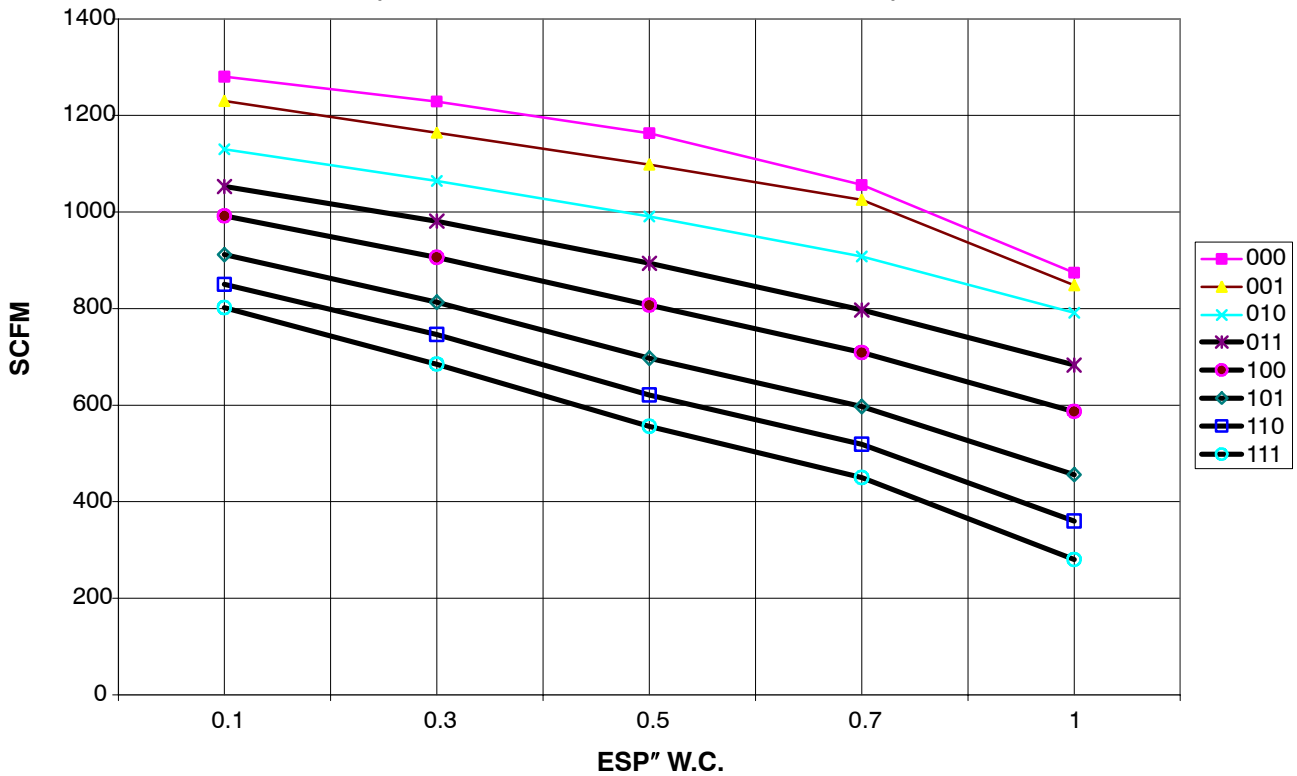
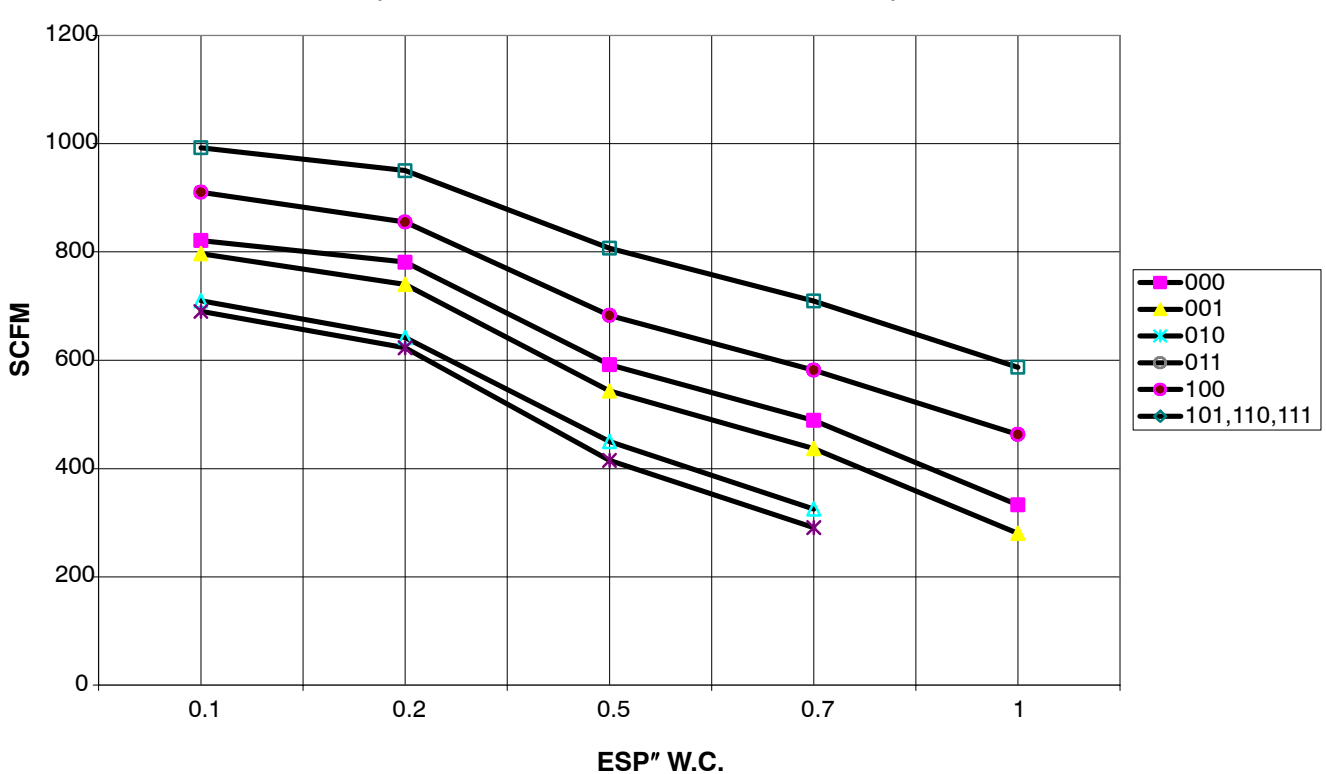


Figure 2

### \*9MPV050 Hi HEAT (CFM VS. EXTERNAL STATIC PRESSURE)



# Circulation Air Blower Data - \*9MPV

## Heating, Cooling & Continuous Airflow Settings

Figure 3

### \*9MPV050 Lo HEAT (CFM VS. EXTERNAL STATIC PRESSURE)

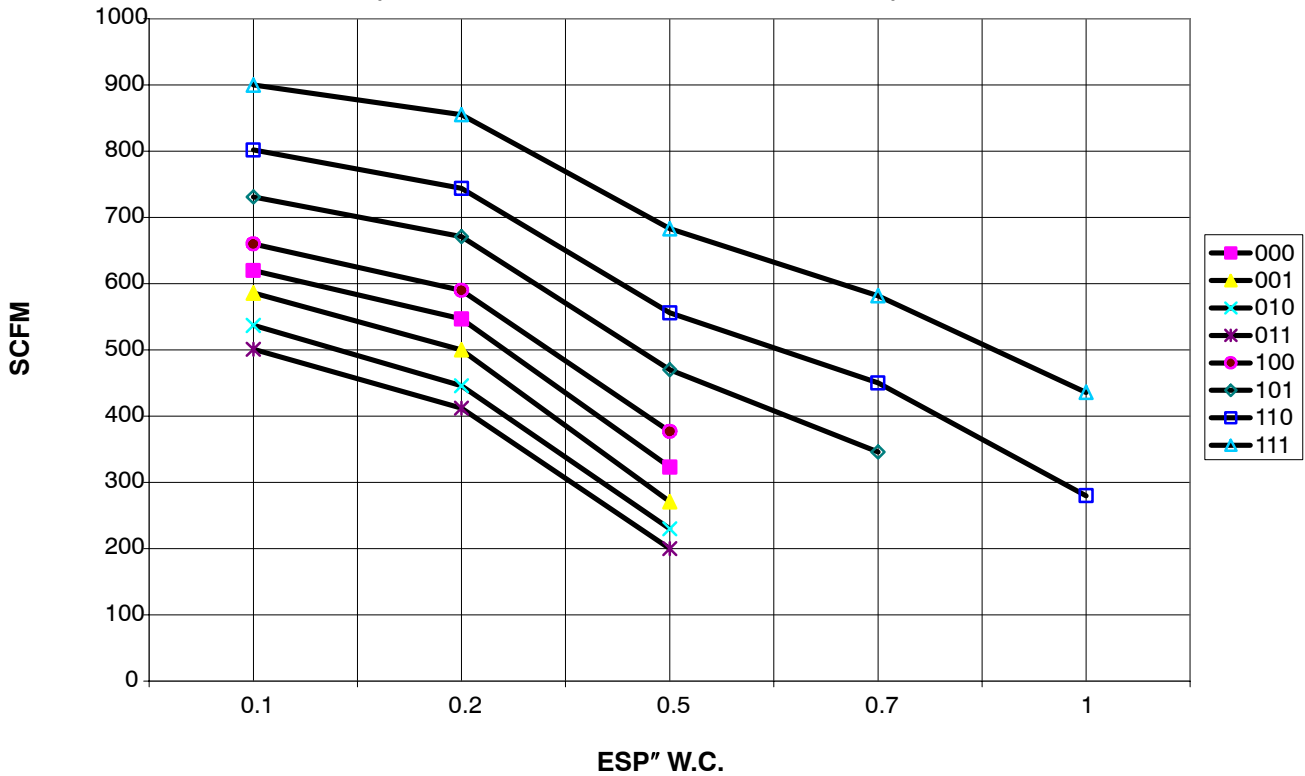
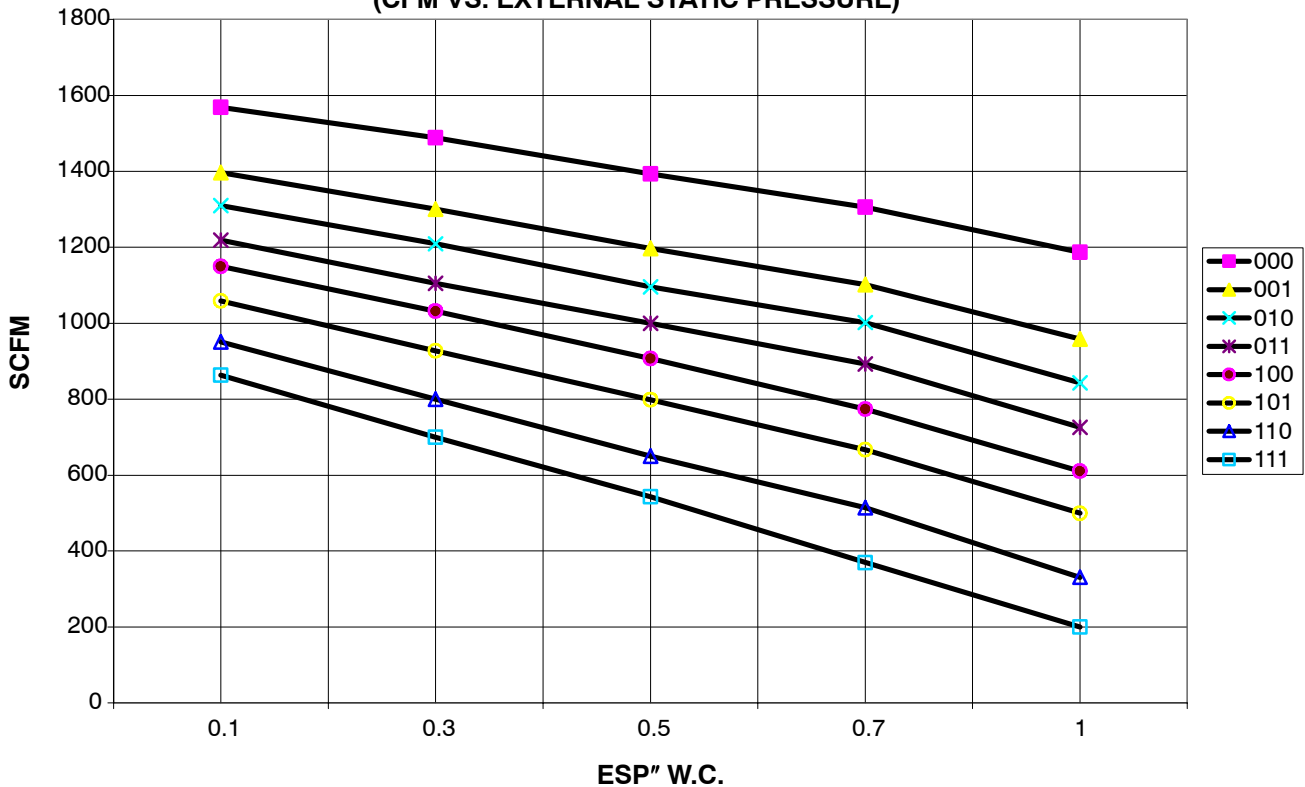


Figure 4

### \*9MPV075 COOLING (CFM VS. EXTERNAL STATIC PRESSURE)



# Circulation Air Blower Data - \*9MPV

## Heating, Cooling & Continuous Airflow Settings

Figure 5

**\*9MPV075 Hi HEAT**  
(CFM VS. EXTERNAL STATIC PRESSURE)

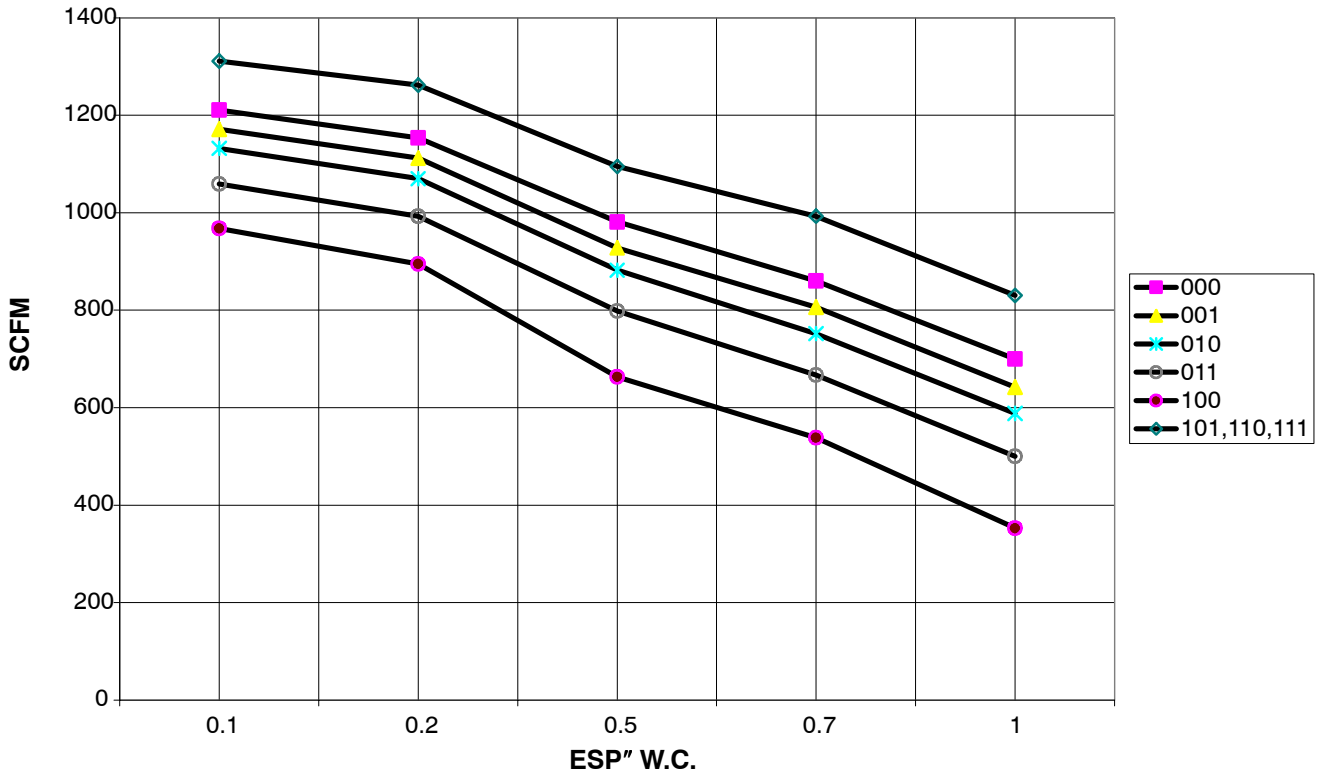
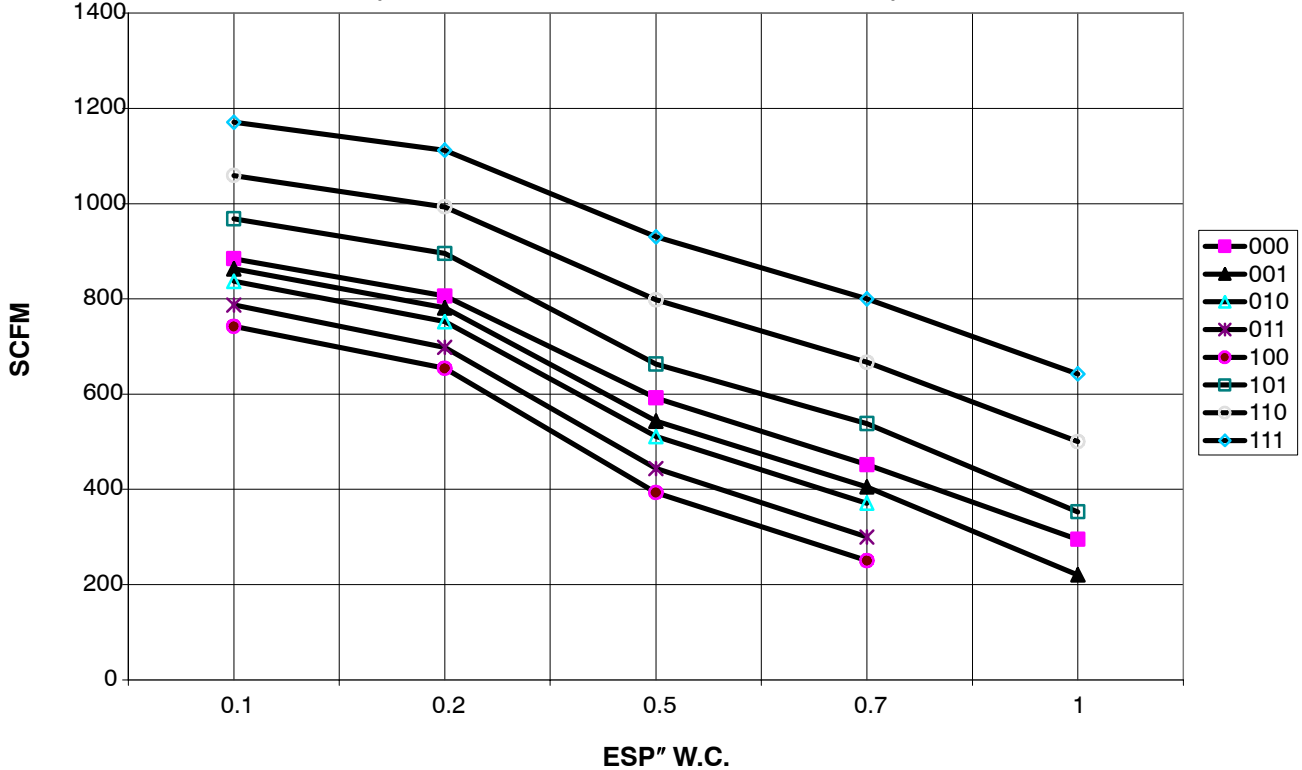


Figure 6

**\*9MPV075 Lo HEAT**  
(CFM VS. EXTERNAL STATIC PRESSURE)



# Circulation Air Blower Data - \*9MPV

## Heating, Cooling & Continuous Airflow Settings

Figure 7

### \*9MPV100 COOLING (CFM VS. EXTERNAL STATIC PRESSURE)

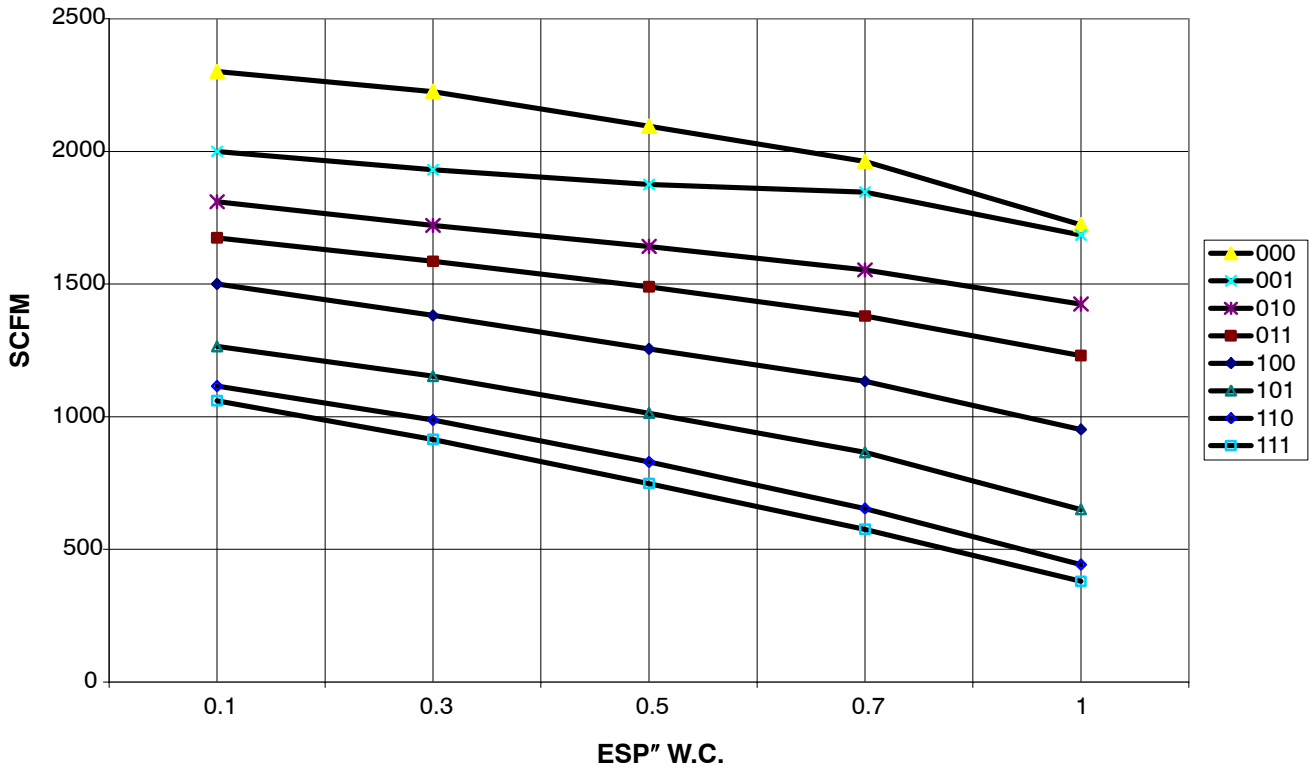
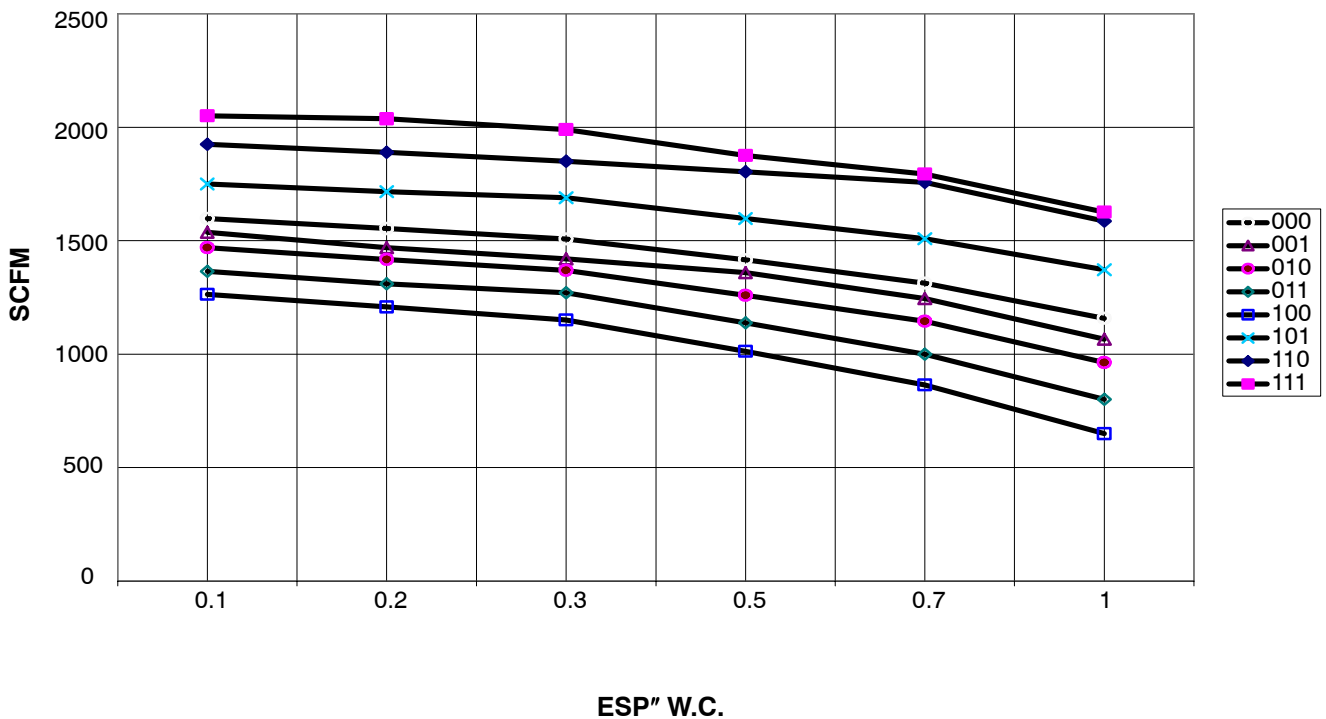


Figure 8

### \*9MPV100 Hi HEAT (CFM VS. EXTERNAL STATIC PRESSURE)





# Circulation Air Blower Data - \*9MPV

## Heating, Cooling & Continuous Airflow Settings

Figure 9

### \*9MPV100 Lo HEAT (CFM VS. EXTERNAL STATIC PRESSURE)

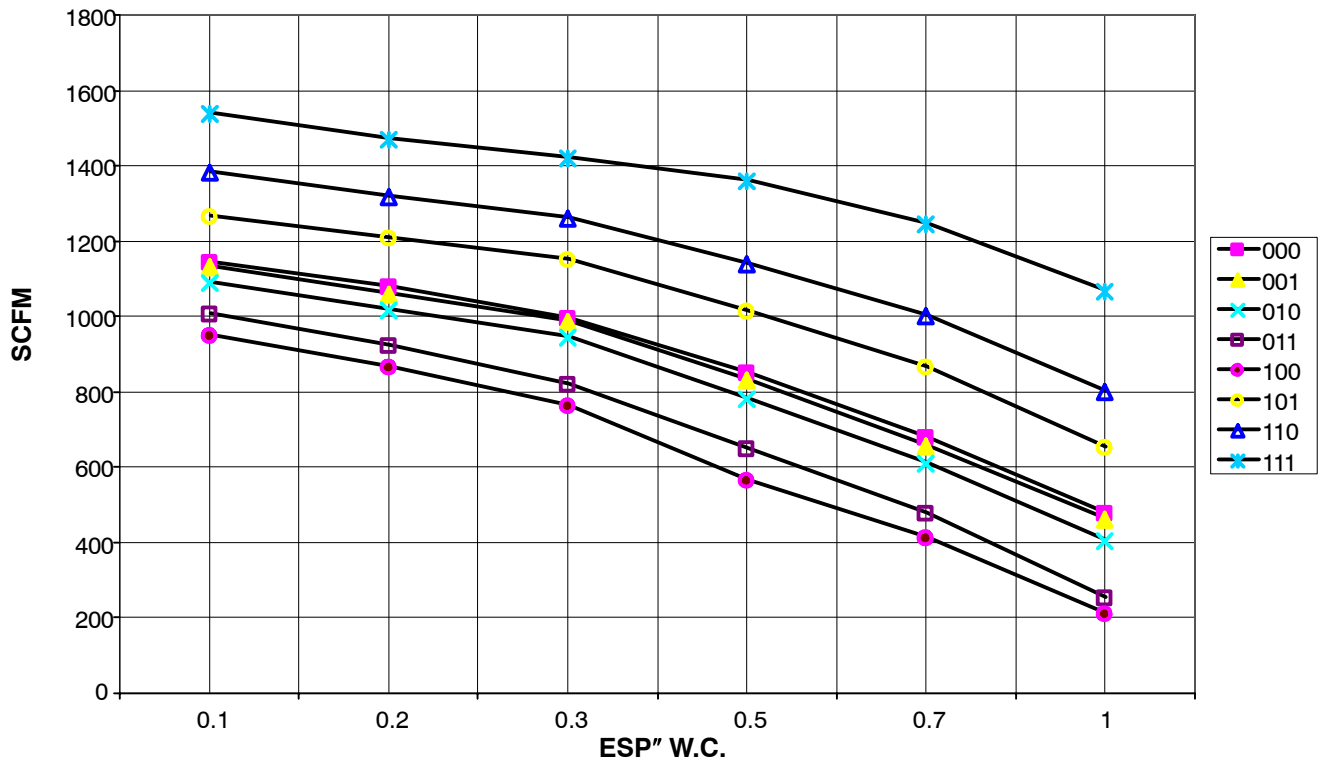
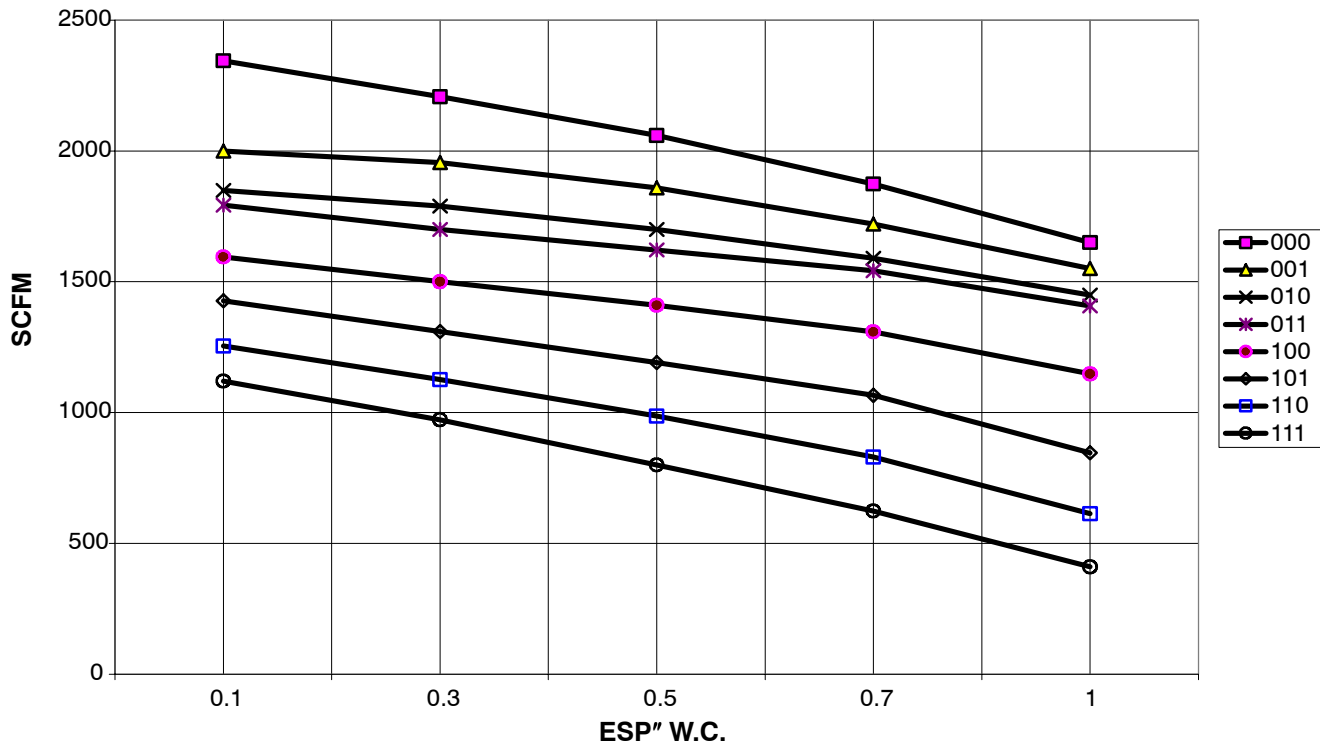


Figure 10

### \*9MPV125 COOLING (CFM VS. EXTERNAL STATIC PRESSURE)



# Circulation Air Blower Data - \*9MPV

## Heating, Cooling & Continuous Airflow Settings

Figure 11

### \*9MPV125 Lo HEAT (CFM VS. EXTERNAL STATIC PRESSURE)

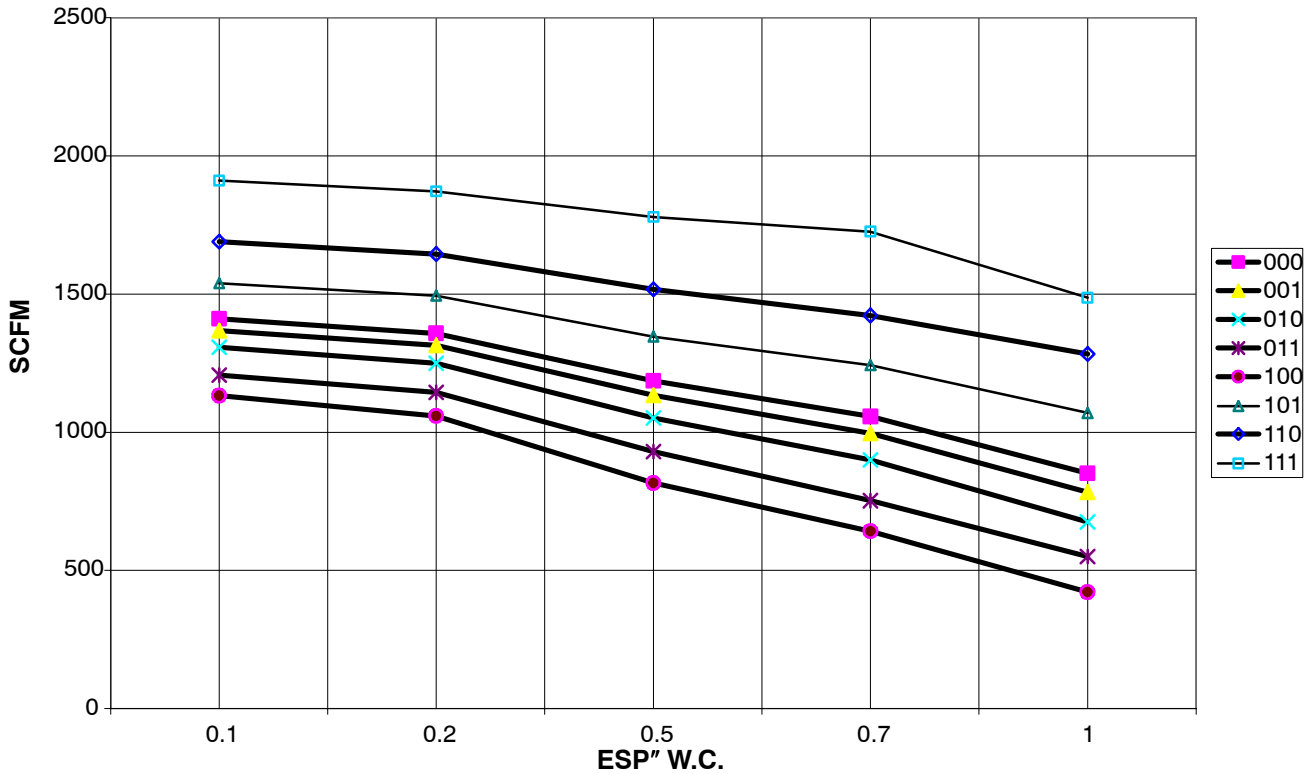
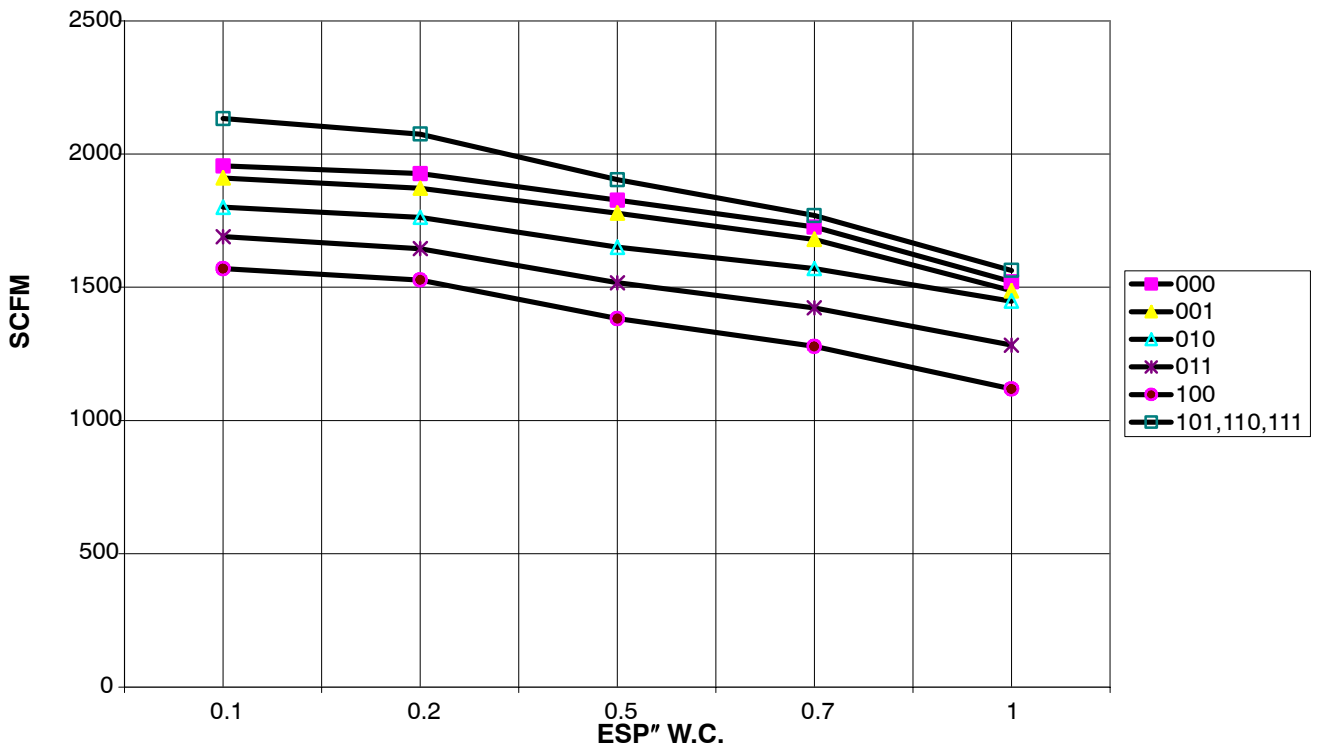
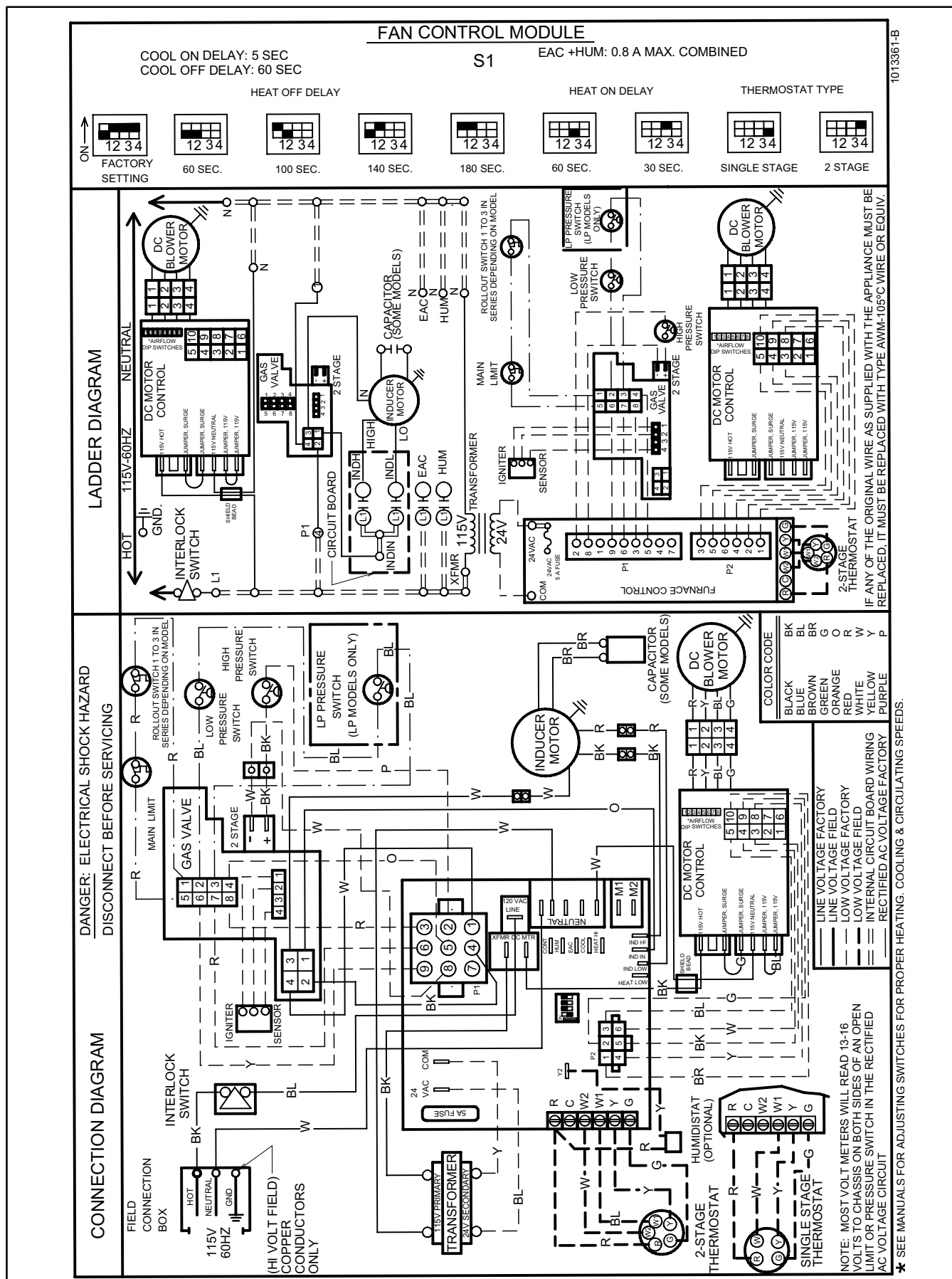


Figure 12

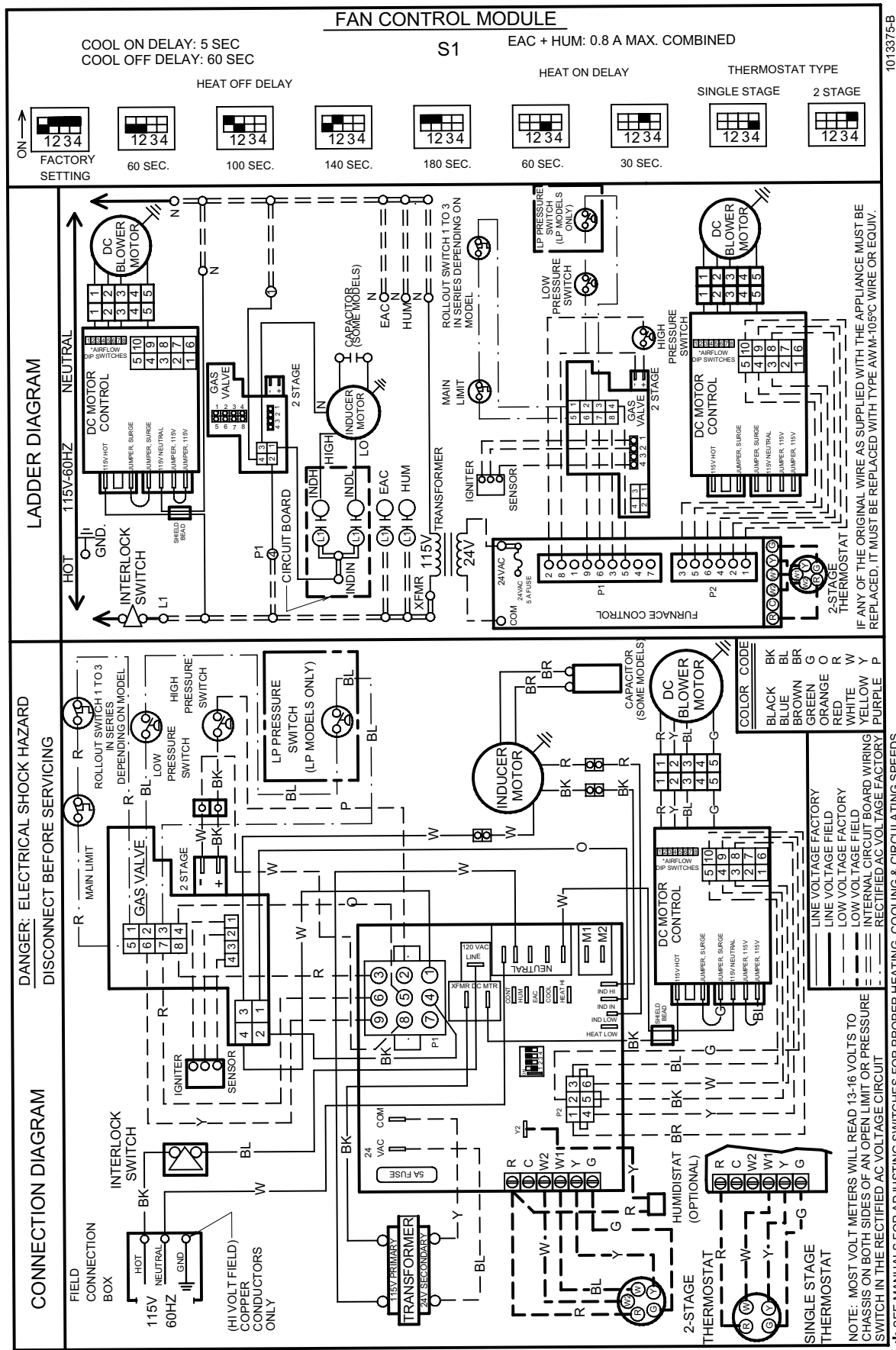
### \*9MPV125 Hi HEAT (CFM VS. EXTERNAL STATIC PRESSURE)



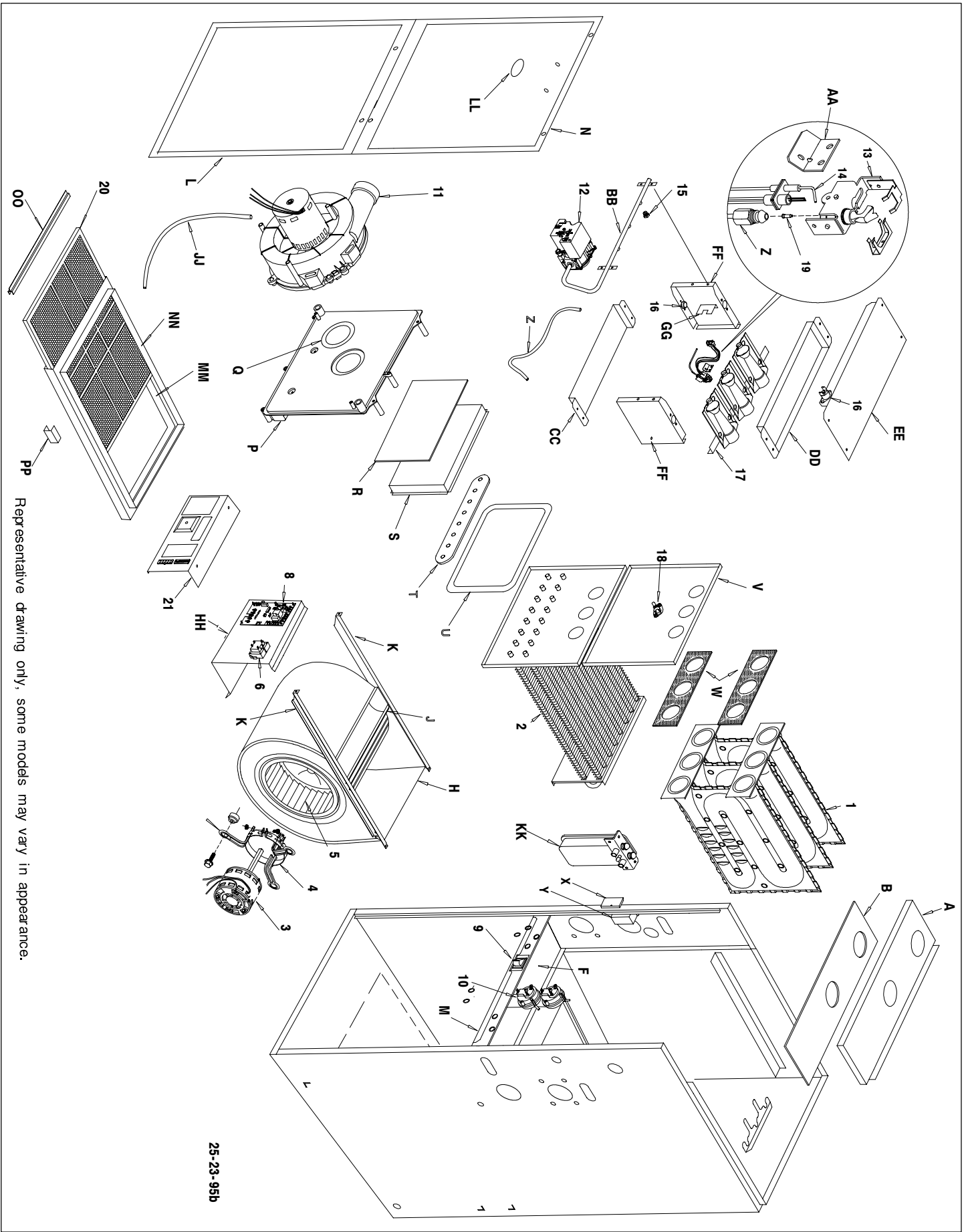
## 1. Wiring Diagram (1½ HP Variable Speed Blower Motor)



## Wiring Diagram (1 HP Variable Speed Blower Motor)



2. (\*9MPV)



# Replacement Parts - \*9MPV

Models - \*9MPV050F12A2, \*9MPV075F12A2, \*9MPV100J20A2 & \*9MPV125L20A2 (Natural Gas)

Replacement part supplied will be current active part. For parts not listed, consult place of purchase.

| Key No. | Description Functional      | Part Number | *9MPV    |          |          |          |
|---------|-----------------------------|-------------|----------|----------|----------|----------|
|         |                             |             | 050 F12A | 075 F12A | 100 J20A | 125 L20A |
| 1       | Heat Exchanger, Primary     | 1012850     | 1        | -        | -        | -        |
|         |                             | 1012854     | -        | 1        | -        | -        |
|         |                             | 1012858     | -        | -        | 1        | -        |
|         |                             | 1012862     | -        | -        | -        | 1        |
| 2       | Ht Exchanger, Secondary     | 1013762     | 1        | -        | -        | -        |
|         |                             | 1013763     | -        | 1        | -        | -        |
|         |                             | 1013765     | -        | -        | 1        | -        |
|         |                             | 1013767     | -        | -        | -        | 1        |
| 3       | Motor, Blower               | 1012478     | 1        | -        | -        | -        |
|         |                             | 1012479     | -        | 1        | 1        | 1        |
| 4       | Mount, Motor kit            | 522020024   | 1        | 1        | 1        | 1        |
| 5       | Wheel, Blower               | 1013011     | 1        | -        | -        | -        |
|         |                             | 1011420     | -        | 1        | 1        | 1        |
| 6       | Transformer                 | 1012722     | 1        | 1        | 1        | 1        |
| 8       | Control, Fan Timer          | 1012084     | 1        | 1        | 1        | 1        |
| 9       | Switch, Interlock           | 1012351     | 1        | 1        | 1        | 1        |
| 10      | Switch, Pressure            | 1013166     | -        | -        | -        | 1        |
|         |                             | 1013515     | 1        | 1        | 1        | -        |
| 11      | Blower, Exhaust             | 1013357     | 1        | 1        | 1        | -        |
|         |                             | 1013376     | -        | -        | -        | 1        |
| 12      | Valve, Gas HSP Nat. 2 Stage | 1013351     | 1        | 1        | 1        | 1        |
| 13      | Burner, Pilot HSP           | 1008731     | 1        | 1        | 1        | 1        |
| 14      | Igniter/Sensor HSP          | 1009524     | 1        | 1        | 1        | 1        |
| 15      | Orifice, Burner #42 Nat.    | 1011351     | 2        | 3        | 4        | 5        |
| 16      | Switch, Limit (Rollout)     | 1013102     | 2        | 2        | 2        | 2        |
| 17      | Burner Assembly             | 1008723     | 1        | -        | -        | -        |
|         |                             | 1008724     | -        | 1        | -        | -        |
|         |                             | 1008725     | -        | -        | 1        | -        |
|         |                             | 1008726     | -        | -        | -        | 1        |
| 18      | Switch, Limit (Main)        | 1320366     | 1        | -        | -        | -        |
|         |                             | 34335001    | -        | 1        | -        | -        |
|         |                             | 34335002    | -        | -        | 1        | -        |
|         |                             | 1008445     | -        | -        | -        | 1        |
| 19      | Orifice, Pilot .018         | 503211      | 1        | 1        | 1        | 1        |
| 20      | Filter,HH 16X25X1/2"        | 1010365     | 1        | 1        | 2        | 2        |
| 21      | Control, Mtr Variable Spd   | 1013410     | 1        | -        | -        | -        |
|         |                             | 1013411     | -        | 1        | -        | -        |
|         |                             | 1013412     | -        | -        | 1        | -        |
|         |                             | 1013413     | -        | -        | -        | 1        |

| Key No. | Description               | Part Number | *9MPV    |          |          |          |
|---------|---------------------------|-------------|----------|----------|----------|----------|
|         |                           |             | 050 F12A | 075 F12A | 100 J20A | 125 L20A |
| A       | Panel, Top                | 1012342     | 1        | 1        | -        | -        |
|         |                           | 1012343     | -        | -        | 1        | -        |
|         |                           | 1012344     | -        | -        | -        | 1        |
| B       | Gasket, Top Panel         | 1012603     | 1        | 1        | -        | -        |
|         |                           | 1012604     | -        | -        | 1        | -        |
|         |                           | 1012605     | -        | -        | -        | 1        |
| F       | Partition, Blower         | 1013164     | 1        | -        | -        | -        |
|         |                           | 1012877     | -        | 1        | -        | -        |
|         |                           | 1013162     | -        | -        | 1        | -        |
|         |                           | 1013163     | -        | -        | -        | 1        |
| H       | Housing, Blower           | 1012972     | 1        | -        | -        | -        |
|         |                           | 1012888     | -        | 1        | 1        | 1        |
| J       | Panel, Blower Cutoff      | 721020013   | 1        | -        | -        | -        |
|         |                           | 721020008   | -        | 1        | 1        | 1        |
| K       | Hanger, Blower            | 1012328     | 2        | 2        | 2        | 2        |
| L       | Door, Blwer (Cmaker only) | 1013141     | 1        | 1-       | -        | -        |
|         | (Cmaker only)             | 1013142     | -        | -        | 1        | -        |
|         | (Cmaker only)             | 1013143     | -        | -        | -        | 1        |
|         | (Heil only)               | 1013138     | 1        | 1        | -        | -        |
|         | (Heil only)               | 1013139     | -        | -        | 1        | -        |
|         | (Heil only)               | 1013140     | -        | -        | -        | 1        |
|         | (Tstar only)              | 1013394     | 1        | 1        | -        | -        |
|         | (Tstar only)              | 1013395     | -        | -        | 1        | -        |
|         | (Tstar only)              | 1013396     | -        | -        | -        | 1        |
| M       | Bracket Asy., Door Filler | 1013730     | 1        | -        | -        | -        |
|         |                           | 1013727     | -        | 1        | -        | -        |
|         |                           | 1013728     | -        | -        | 1        | -        |
|         |                           | 1013729     | -        | -        | -        | 1        |
| N       | Door, Front (Cmaker only) | 1013148     | 1        | 1        | -        | -        |
|         | (Cmaker only)             | 1013149     | -        | -        | 1        | -        |
|         | Cmaker only)              | 1013150     | -        | -        | -        | 1        |
|         | (Heil only)               | 1013145     | 1        | 1        | -        | -        |
|         | (Heil only)               | 1013146     | -        | -        | 1        | -        |
|         | (Heil only)               | 1013147     | -        | -        | -        | 1        |
|         | (Tstar only)              | 1013397     | 1        | 1        | -        | -        |
|         | (Tstar only)              | 1013398     | -        | -        | 1        | -        |
|         | (Tstar only)              | 1013399     | -        | -        | -        | 1        |
| P       | Transition Assembly       | 1012281     | 1        | 1        | -        | -        |
|         |                           | 1012282     | -        | -        | 1        | -        |
|         |                           | 1012283     | -        | -        | -        | 1        |
| Q       | Gasket, Exhaust Blower    | 1012588     | 1        | 1        | 1        | -        |
|         |                           | 1013415     | -        | -        | -        | 1        |
| R       | Board, Insulating         | 1012418     | 1        | 1        | -        | -        |
|         |                           | 1012419     | -        | -        | 1        | -        |
|         |                           | 1012420     | -        | -        | -        | 1        |
| S       | Box, Collector            | 1012244     | 1        | 1        | -        | -        |
|         |                           | 1012245     | -        | -        | 1        | -        |
|         |                           | 1012246     | -        | -        | -        | 1        |
| T       | Gasket, Transition        | 1013263     | 1        | -        | -        | -        |
|         |                           | 1013080     | -        | 1        | -        | -        |
|         |                           | 1013083     | -        | -        | 1        | -        |
|         |                           | 1013084     | -        | -        | -        | 1        |
| U       | Gasket, Collector Box     | 1012594     | 1        | 1        | -        | -        |
|         |                           | 1012595     | -        | -        | 1        | -        |
|         |                           | 1012596     | -        | -        | -        | 1        |

# Replacement Parts - \*9MPV

Models - \*9MPV050F12A2, \*9MPV075F12A2, \*9MPV100J20A2 & \*9MPV125L20A2 (Natural Gas)

Replacement part supplied will be current active part. For parts not listed, consult place of purchase.

| Key No. | Description                 | Part Number | *9MPV    |          |          |          |
|---------|-----------------------------|-------------|----------|----------|----------|----------|
|         |                             |             | 050 F12A | 075 F12A | 100 J20A | 125 L20A |
| V       | Partition, Front Ht Exchger | 1012650     | 1        | -        | -        | -        |
|         |                             | 1012648     | -        | 1        | -        | -        |
|         |                             | 1012651     | -        | -        | 1        | -        |
|         |                             | 1012653     | -        | -        | -        | 1        |
| W       | Gasket, Attachment Plate    | 1012542     | 2        | -        | -        | -        |
|         |                             | 1012543     | -        | 2        | -        | -        |
|         |                             | 1012544     | -        | -        | 2        | -        |
|         |                             | 1012545     | -        | -        | -        | 2        |
| X       | Cover, Junction Box         | 1012350     | 1        | 1        | 1        | 1        |
| Y       | Box, Junction               | 1012349     | 1        | 1        | 1        | 1        |
| Z       | Tube, Pilot                 | 1012832     | 1        | -        | 1        | -        |
|         |                             | 1013189     | -        | 1        | -        | -        |
|         |                             | 1013077     | -        | -        | -        | 1        |
| AA      | Bracket, Pilot              | 1010901     | 1        | 1        | 1        | 1        |
| BB      | Manifold                    | 1012970     | 1        | -        | -        | -        |
|         |                             | 1012971     | -        | 1        | -        | -        |
|         |                             | 1012278     | -        | -        | 1        | -        |
|         |                             | 1012279     | -        | -        | -        | 1        |
| CC      | Bottom, Burner Box          | 1012334     | 1        | 1        | -        | -        |
|         |                             | 1012335     | -        | -        | 1        | -        |
|         |                             | 1012336     | -        | -        | -        | 1        |
| DD      | Baffle, Burner Box          | 1012338     | 1        | 1        | -        | -        |
|         |                             | 1012339     | -        | -        | 1        | -        |
|         |                             | 1012340     | -        | -        | -        | 1        |
| EE      | Top, Burner Box             | 1013702     | 1        | 1        | -        | -        |
|         |                             | 1013703     | -        | -        | 1        | -        |
|         |                             | 1013704     | -        | -        | -        | 1        |
| FF      | Bracket, Manifold Support   | 1012377     | 2        | 2        | 2        | 2        |
| GG      | Bracket, Burner Box Side    | 1012532     | 2        | 2        | 2        | 2        |
| HH      | Bracket, Control Mounting   | 1012321     | 1        | 1        | 1        | 1        |
| JJ      | Tube, Sensor                | 1009238     | 1        | 1        | 1        | 1        |
| KK      | Trap, Drain Assembly        | 1013676     | 1        | 1        | 1        | 1        |
| LL      | Sightglass                  | 1013235     | 1        | 1        | 1        | 1        |
|         | (Tstar only)                | 1013236     | 1        | 1        | 1        | 1        |
| MM      | Wrapper, Filter Rack        | 741010039   | 1        | 1        | 2        | 2        |
| NN      | Front, Filter Rack          | 741020001   | 1        | 1        | 2        | 2        |
| OO      | Cover, Filter               | 2791043     | 1        | 1        | 2        | 2        |
| PP      | Clip, Filter                | 1008482     | 3        | 3        | 3        | 3        |

| Key No.                             | Description               | Part Number | *9MPV    |          |          |          |
|-------------------------------------|---------------------------|-------------|----------|----------|----------|----------|
|                                     |                           |             | 050 F12A | 075 F12A | 100 J20A | 125 L20A |
| (                                   | PART NOT ILLUSTRATED      |             |          |          |          |          |
| (                                   | Door Screws               | 1013349     | 4        | 4        | 4        | 4        |
| (                                   | Door Screw Retainers      | 1013725     | 4        | 4        | 4        | 4        |
| (                                   | Elbow Vent Asy 90+        | 1013495     | 1        | 1        | 1        | 1        |
|                                     | Includes: Elbow, Vent 90+ | 1012617     | 1        | 1        | 1        | 1        |
|                                     | (Clamp Hose               | 1013651     | 1        | 1        | 1        | 1        |
|                                     | Drain Vent                | 1013796     | 1        | 1        | 1        | 1        |
|                                     | Coupling, Discharge       | 1002522     | 1        | 1        | 1        | 1        |
| (                                   | Coupling, Air Intake      | 1012284     | 1        | 1        | 1        | 1        |
| (                                   | Gasket, Air Intake        | 1012583     | 1        | 1        | 1        | 1        |
| (                                   | Gasket, Trap              | 1013701     | 1        | 1        | 1        | 1        |
| (                                   | Hose, Drain 1/2"          | 1012695     | 1        | 1        | 1        | 1        |
| (                                   | Hose, Drain 5/8"          | 1012696     | 1        | 1        | 1        | 1        |
| (                                   | Hose, Drain 3/16"         | 1009238     | 1        | 1        | 1        | 1        |
| (                                   | Clamp, Hose 5/8"          | 1012975     | 2        | 2        | 2        | 2        |
| (                                   | Clamp, Hose 3/4"          | 1012976     | 2        | 2        | 2        | 2        |
| (                                   | Grommet, Vent             | 1012697     | 1        | 1        | 1        | 1        |
| (                                   | Bushing, Strain Relief    | 1945287     | 1        | 1        | 1        | 1        |
| (                                   | Grommet, Vinyl            | 1009535     | 1        | 1        | 1        | 1        |
| (                                   | Harness, Wire             | 1013689     | 1        | 1        | -        | -        |
|                                     |                           | 1013690     | -        | -        | 1        | 1        |
| (                                   | Harness, Wire Lo Voltage  | 1012520     | 1        | 1        | 1        | 1        |
| (                                   | Harness, Wire Hi Voltage  | 1012521     | 1        | 1        | 1        | 1        |
| (                                   | Manual, Tech / Parts List | 44003201500 | 1        | 1        | 1        | 1        |
| (                                   | Manual, Users             | 44002101003 | 1        | 1        | 1        | 1        |
| (                                   | Manual, Installation      | 44001201200 | 1        | 1        | 1        | 1        |
| Gas Conversion Kits - All models    |                           |             |          |          |          |          |
| Nat to LP                           |                           | *1011789    |          |          |          |          |
| LP to Nat                           |                           | *1011787    |          |          |          |          |
| *Must be ordered from Service Parts |                           |             |          |          |          |          |