

THIS PROCEDURE MUST BE PERFORMED BY A QUALIFIED TECHNICIAN

GENERAL OPERATION

The variable speed blowers in Steffes forced air heating systems have four blower speed jumper settings to select the 100% airflow rate. These jumpers are found on the Comfort Plus LV Circuit Board (Figure 1) and are labeled as “Blower Speed” (Figure 2). With the ½ HP variable speed motor, the system has options for 1000, 1200, 1400, and 1600 CFM. The ¾ or 1 HP variable speed motor offers 1200, 1400, 1600, and 2000 CFM as options. With a fan only call, the system operates at 400 CFM.

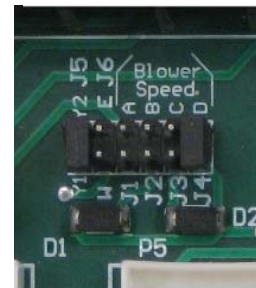
In applications where the Steffes furnace will not be used with a heat pump, there is only one stage of heating, or there is noise sensitivity, the system can be configured to produce a lower CFM. The goal is to find an airflow that suits the application by using the blower speed selection jumpers (A B C D) or thermostat configurations to achieve a given airflow as shown in the chart below:

Terminals Energized	% of Target CFM	Target CFM with ½ HP ECM				Target CFM with ¾ or 1 HP ECM			
		A	B	C	D	A	B	C	D
W/AUX	100%	1000	1200	1400	1600	1200	1400	1600	2000
Y ₁ + Y ₂ + G	100%	1000	1200	1400	1600	1200	1400	1600	2000
Y ₁ + G	70%	700	840	980	1120	840	980	1120	1400
Y ₁ + Y ₂ (Or only Y ₂)	50%	500	600	700	800	600	700	800	1000
Y ₁	36% (min. 450)	450	460	510	550	460	510	550	720
G	400 CFM	400	400	400	400	400	400	400	400

FIGURE 1



FIGURE 2



THERMOSTAT SETUP OPTIONS

If the thermostat is set up to give us a G call with every heat call, check the set up options to determine if the thermostat can be re-configured to stop giving the G call. The instructions below show how the Honeywell TH5000 series thermostat can be changed:

3	Fan control (heating)	0	Gas or oil furnace — equipment controls fan in heating
		1	Electric furnace — thermostat controls fan in heating

NOTE: Any changes made will affect every heat call from the thermostat, so use caution when changing settings. If the thermostat is set for two stage heating, airflow will be reduced for a stage one heat call, but not a stage two heat call using the W/Aux terminal at the furnace.