

# PLASMA AIR - MODEL 100 RESIDENTIAL PRODUCT SELECTION



When using Plasma Air ionization equipment on any project, it is important to provide the proper amount of ionization. In a home, pollutants such as airborne particles from smoke, dust, dander, or pollen; VOCs from furniture, cleaning supplies, or other chemicals; odors from pets, mildew, and cooking; and even health related concerns from mold, bacteria, and viruses all contribute to poor indoor air quality. Selecting the proper length ionization tube and the required ionization setting on the base unit is important for achieving all the benefits from the ionization system. The information below will guide you through the process.

**Step 1)** To determine the Pollutant Load Factor of the home, total the points based on the following criteria:

- \_\_\_\_\_ 2 points for each smoker in the home
- \_\_\_\_\_ 1 point for each pet in the home
- \_\_\_\_\_ 1 point for each asthma or allergy sufferer in the home
- \_\_\_\_\_ 1 point if there is heavy cooking performed on a regular basis in the home
- \_\_\_\_\_ 2 points if ceiling heights are greater than 9 feet in significant areas of the home
- \_\_\_\_\_ **TOTAL NUMBER OF POINTS – this is your Pollutant Load Factor**

**Step 2)** Using the Pollutant Load Factor and knowing the approximate square footage being served by the air handler, look up the tube size and setting from the chart below. If there are two or more air handlers serving the home, consider each air handler separately.

		SQUARE FOOTAGE SERVED BY AIR HANDLER							
		400	800	1200	1600	2000	2400	2800	3200
POLLUTANT LOAD FACTOR	0-4	C @1	C @1	C @3 or D @1	C @4 or D @2	D @4 or E @1	D @5	E @3	E @4
	5-8	C @1	C @2	C @4 or D @2	D @4 or E @2	E @3	E @4	E @5	E @5
	9-12	C @1	C @3 or D @1	D @4	E @3	E @4	E @5	E @5 and C @2	E @5 and C @5
	13-16	C @1	C @4 or D @2	D @5	E @4	E @5	E @5 and C @2	E @5 and C @5	E @5 and E @3
	>16	C @2	C @5 or D @3	E @3	E @5	E @5 and C @1	E @5 and C @5	E @5 and E @3	E @5 and E @5

- Notes:**
1. Letter indicates tube length and number indicates ionization level setting on front of unit
  2. Shaded area of chart requires the use of 2 separate model 100 units

**Step 3)** Confirm your selection process by comparing it to the example below:

**Example:** There is one air handler serving a 2,000 square foot home. If there are 2 smokers, 1 dog, and 1 person suffering from allergies, your Pollutant Load Factor is 6. From the chart you would select an E-tube set at ionization level 3