



INSTALLATION, OPERATION & MAINTENANCE MANUAL

AERISA AerBar-Plus

02/19



INTRODUCTION

The Aerisa AerBar-Plus is a commercial quality, needle point ion generator intended for installation on the upstream side of the cooling coil in air handling (AHU) and rooftop units (RTU). The AerBar-Plus is available in lengths of 18 inches up to 96 inches in custom lengths to suit a wide variety of AHU or RTU size applications. The AerBar-Plus is effective in reducing harmful pollutants and odors by introducing positive and negative ions into the system airflow which is then delivered to the space. The length and quantity of the AerBar-Plus ionization units are dependent on the internal cross-sectional dimensions of the applicable AHU or RTU coil and the severity of the indoor air pollutants. The AerBar-Plus ionization assembly is powered with a remote Control Panel provided by Aerisa. One control panel can power up to two (2) AerBar-Plus units per AHU or RTU.



MECHANICAL INSTALLATION INSTRUCTIONS

GENERAL MOUNTING CRITERIA:

Warning: This product is intended for mounting into metallic construction only. Installation must be such that the structural integrity or function of any heat transfer coil is not compromised. Do not fasten the AerBar-Plus unit directly onto the fins or tubes of a coil.

1. The preferred mounting location for the AerBar-Plus is on the entering face of the cooling coil inside of an Air Handling Unit (see Figure 1a). The mounting brackets provided shall be secured to the structural frame of the coil without damaging the coil's fins or tubes. Vertical Uni-strut, by others, may be utilized to aid in mounting of the AerBar-Plus if necessary (See Figure 1b).
2. Once the AerBar-Plus is securely fastened inside the AHU, mount the factory furnished Control Panel at a nearby location to allow easy connection of the AerBar-Plus wiring harness to the control panel controls (Figure 1a or Figure 1b).
3. Connect the power and ground wires to the control panel, connect the ground wire(s) to the AerBar-Plus(s).
4. Set the voltage selector switch to the correct voltage.
5. Turn the switch to the "ON" position.
6. Install AerBar-Plus such that ionization needles are pointed down toward the floor of the AHU.
7. Do not mount the AerBar-Plus upstream of the system filter.

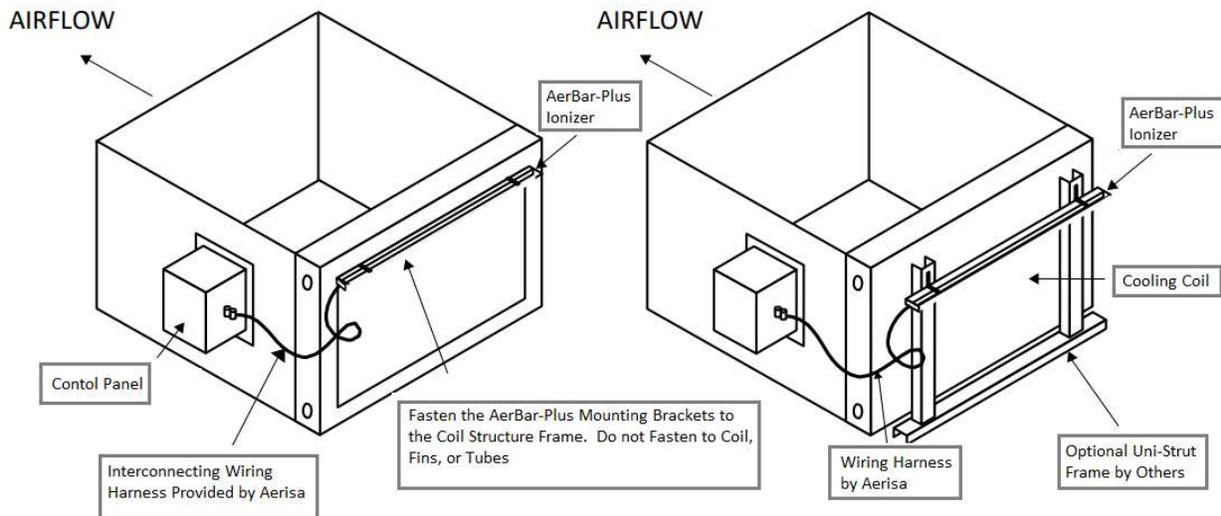


FIGURE 1a

FIGURE 1b

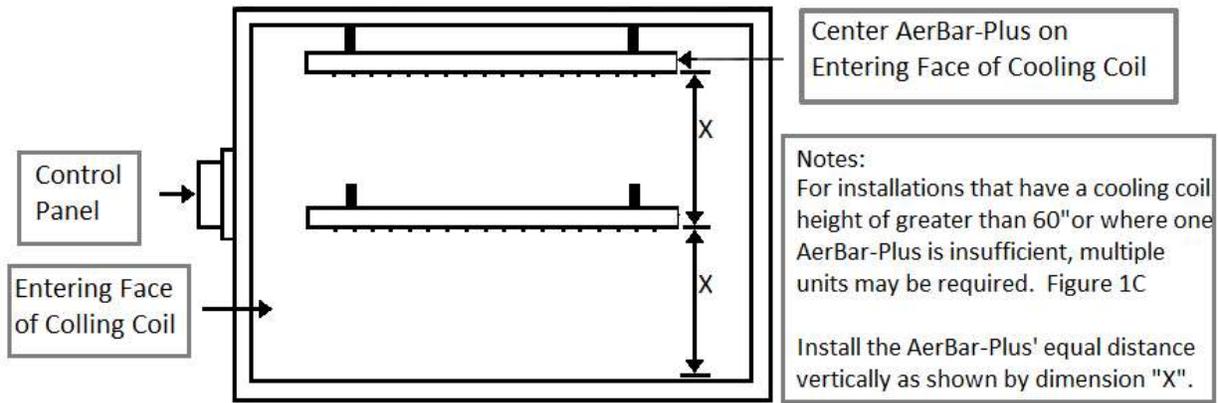


FIGURE 1c Installation for Air Handlers Requiring Multiple AerBar-Plus Ionizers

Warning: Always disconnect power to the unit before handling any of the unit components. When connecting two (2) AerBar-Plus units to a single power supply, connect the wiring harness from each AerBar-Plus to one of the AC out ports of the power supply. Connect the ground wire from each AerBar-Plus to the ground stud on the power supply.

SIZING CHART

Note that multiple AerBar-Plus units may be required for airflows above 20,000 CFM or where the AHU equipment cannot accommodate a single unit sized for airflow alone.

CFM	AerBarPLUS Model	Length (inches)	Weight (Lbs)
3750	AerBar-Plus-18	18	1.5
5000	AerBar-Plus-24	24	2.0
6250	AerBar-Plus-30	30	2.5
7500	AerBar-Plus-36	36	3.0
8750	AerBar-Plus-42	42	3.5
10000	AerBar-Plus-48	48	4.0
11250	AerBar-Plus-54	54	4.5
12500	AerBar-Plus-60	60	5.0
13750	AerBar-Plus-66	66	5.5
15000	AerBar-Plus-72	72	6.0
16250	AerBar-Plus-78	78	6.5
17500	AerBar-Plus-84	84	7.0
18750	AerBar-Plus-90	90	7.5
20000	AerBar-Plus-96	96	8.0



OPERATION

1. When power is supplied to the Control Panel and the switch is in the "on" position, the ionizer is active.
2. The ionization unit is self-balancing and does not require any type of adjustment.
3. The benefit of the ionization system is realized only when the supply fan is running. Therefore, to achieve improved air quality, interlock the Control Panel to be activated when the supply fan is powered.

TROUBLESHOOTING

If the AerBar-Plus ionization unit is not working, check that:

1. The control panel power switch is in the "on" position, the supply fan is running, and the power indicator light is illuminated.
2. The power input connections to the control panel are properly connected. Verify all connections are correct and securely tightened. Reconnect any loose wires.



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