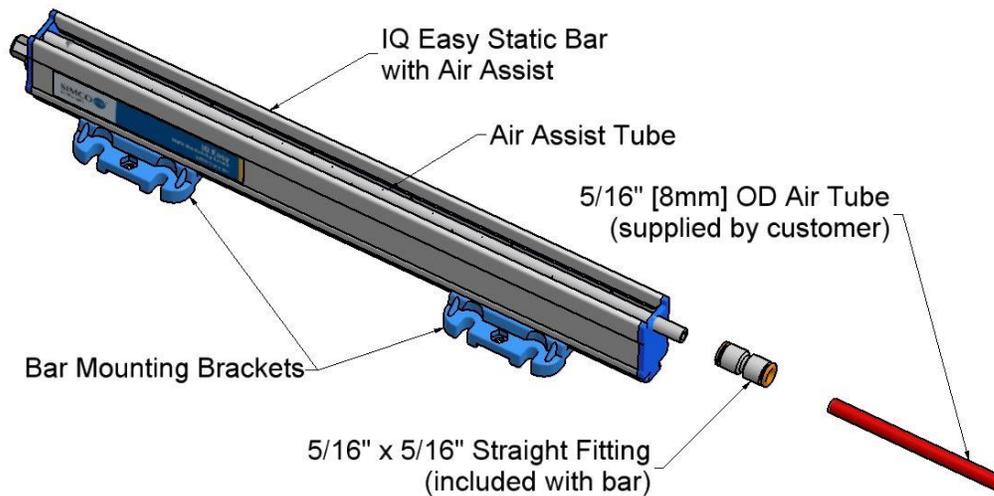


# IQ Easy Air Assist Static Bar Instruction Addendum



## DESCRIPTION

The IQ Easy Air Assist static bar features a high density of long-life tungsten ion emitters with an air tube running the length of the bar between the ion emitters. Between each set of emitters is a precision drilled hole that produces a jet of air to assist in ion delivery for a greater operating distance.

## SPECIFICATIONS

Air Assist Connection	5/16" [8mm] OD Tubing, Quick Disconnect
Air Assist Gas	Clean, dry, oil-free compressed air or nitrogen 100 psi [690 kPa] maximum 104°F [40°C] maximum
Air Assist Consumption *	Air Flow <sub>SCFM</sub> = Length <sub>meters</sub> x (Pressure <sub>psi</sub> x 0.12 + 1.5) Air Flow <sub>SCFM</sub> = Length <sub>inches</sub> x (Pressure <sub>psi</sub> x 0.003 + 0.038)
Air Assist Materials	Tube - Polycarbonate Fitting - Polybutylene

\* Example: A 1.5 meter bar operating at 50 PSI

$$\text{Air Flow}_{\text{SCFM}} = \text{Length}_{\text{meters}} \times (\text{Pressure}_{\text{psi}} \times 0.12 + 1.5)$$

$$\text{Air Flow}_{\text{SCFM}} = 1.5 \text{ meters} \times (50 \text{ psi} \times 0.12 + 1.5)$$

$$\text{Air Flow}_{\text{SCFM}} = 1.5 \text{ meters} \times (6 + 1.5)$$

$$\text{Air Flow}_{\text{SCFM}} = 1.5 \text{ meters} \times (7.5)$$

$$\text{Air Flow}_{\text{SCFM}} = 11.25 \text{ SCFM}$$

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## **INSTALLATION (Air Assist)**



**NOTE!** - Compressed air or gas used with this device **MUST** be clean and dry. Dirt, water or oil in the assist gas may block air jets or damage air assist tube.

Assist gas must be prepared with filtration and pressure regulation to ensure a controlled pressure flow of clean, dry, oil-free air. Connection to the air assist bar is made with a straight fitting or 90° elbow fitting; both are included with the bar. Customer supplied tubing, 5/16" [8mm] outside diameter, 3/16" [5mm] inside diameter is recommended. The tubing must be clean and may include typically used tubing materials such as nylon, polyethylene or polyurethane. To connect the air assist bar, make sure tubing is cut cleanly and not at an angle, then simply push tubing into fitting on end of bar.

Compressed air or gas supplied to bar must be clean, dry and oil free. To disconnect air line or fitting, depress collar on fitting and pull tube out of fitting.

Route tubing away from any moving machine parts and secure tubing to prevent damage

## **OPERATION**

In operation, air assist improves ion delivery over a range of several feet, reducing discharge times and enhancing static neutralization. Performance enhancement is generally proportional to applied pressure.

### **With Monitoring Device**

When operated with a monitoring device, such as a Control Station, the Air Assist bar will report back as a standard IQ Easy Speed bar. Due to the nature of air assisted ionization, the IQ Easy Air Assist static bar may be operated at a greater range than presented in the monitoring device "Mounting Distance".

Of the four Operation Modes:

**Fixed** is recommended

**CLFB and Manual** work, but there may be limitations at greater operating distances

**Auto-Tune** is not recommended due to performance enhancement from airflow and the generally greater operating distances.

## **MAINTENANCE**

Clean emitter points and air assist tube regularly with a stiff bristle, non-metallic brush.



**NOTE!** - The air assist tube is polycarbonate. Do not use solvents on the air assist tube as damage to the tube material may occur.



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