

## AOM SPRAY EQUIPMENT

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## THE LEGEND SERIES GUNS

This is our Premium gun range. It includes the **K1 HTE** reduced pressure hybrid, the **ECO HVLP**, and the **K1 3A MIX** guns. These are three different high transfer technologies. All have drop forged gun bodies and stainless steel wetted parts.

The **K1 HTE** is a reduced pressure hybrid gun sprayed at about 30 psi and has a blue gun body. This gun combines the best of conventional guns with the best of HVLP guns. HVLP guns run at about 10 psi and give 65% transfer efficiency; but have a slow production rate. Conventional guns on the other hand work at up to 60 psi with a high production rate and very high quality of atomization. The downside of the conventional gun is that it gives only about 30% transfer efficiency. Overall K1 HTE is the best atomizing gun in our line with 65% TE and a high production speed. It can be used for all but the thinnest of coatings. All of our guns use much less air than competitive guns; this gun uses 6 to 8 cfm. The gun comes in three versions, gravity, cup under, and production guns.

The **ECO HVLP** is a high volume low pressure spray gun with a 2 to 1 internal pressure reduction and a green gun body. HVLP guns are required to produce no more than 10 psi at the nozzle. A 2 to 1 reduction gun would need 20 psi into the gun to get 10 psi out. Calculating pressure loss in the air hose with this gun you normally do not set the regulator higher than 25 psi. The ECO is one of the very best HVLP guns on the market today. Its quality of atomization is by far the best available. HVLP guns are slower than Hybrid guns to maintain the same or close to the same quality of finish, because of the low pressure. These guns, also because of the low pressure, cannot spray as thick a coating as a conventional or even a hybrid gun. While other HVLP guns can use as much as 25 cfm at 60 psi; this gun uses only 5 to 7 cfm at 20 psi. The ECO comes in the same three versions as the K1; gravity, cup under, and production. But again; because of the low pressure, HVLP guns do not work well as siphon guns – a pressure cup is much better but more costly.

The final gun in the Legend series is the **K1 3A MIX**. This gun is an AIR-ASSISTED AIRLESS gun and has a red gun body. It combines AIRLESS atomization with HVLP atomization to give the highest transfer efficiency, about 85% and a very high quality of finish. Mix guns require a high pressure pump (10:1 to 25:1) giving fluid pressures as high as 2000 psi to operate. This system is much higher priced and will be addressed on a later page.

**Production guns** as the name infers are for larger jobs and are the best all around low pressure system. The gun has hoses that go to a tank or pump. The gun without a cup is very light weight, can be turned to any angle and can get in tight spaces. The coating is pushed to the gun giving a high production speed.

**Gravity guns** are the best choice for smaller jobs. They are the easiest to clean out and to change colors or coatings. They have the best atomization quality and the lowest overspray. Their main disadvantage is their size profile, which makes it hard to get into some areas.

**Cup guns** (or cup under guns) are the most common guns found but the least efficient way to

spray. You have to have more pressure to suck the coating out of the cup than necessary to

atomize the coating so you always have more overspray. The cup has a center tube that is hard to clean out, plus it always leaves some coating in the bottom of the cup.

**Below is a tip chart** for the Legend Series low pressure guns, cup, gravity and production:



**NOZZLE SELECTION GUIDE**

	SPRAY GUN							
	PRODUCT	ECO/S Gravity	ECO/I Cup	ECO/SSP Production or Pressure Cup	K1/S Gravity	K1 Cup	K1/SSP Production or Pressure Cup	
<b>BODY SHOP</b>	FILLER PRIMER	2.2	/	1.7	1.9	/	1.4	
	SURFACE PRIMER	1.9	/	1.5	1.7	/	1.3	
	BASECOAT	1.5	1.9	1.3	1.3	1.4	1.2	
	METALLIC BASE/WATER BASE	1.5	1.9	1.3	1.4	1.4	1.2	
	CLEARCOAT	1.3	1.7	1.1	1.2	1.3	1.0	
<b>WOODWORKING</b>	PRIMERS	2.2	/	1.9	2.2	2.5	1.7	
	STAINS	1.5	1.7	1.3	1.4	1.7	1.2	
	WOOD FILLER	/	/	2.2	2.5	/	2.2	
	LACQUER	1.7	1.9	1.3	1.7	1.9	1.3	
	OIL-BASED PAINT	2.2	2.2	1.5	1.9	2.2	1.4	
<b>METAL PAINTING</b>	RUST POOF COAT	1.9	2.2	1.5	1.7	2.5	1.4	
	PRIMER	2.2	/	1.7	1.9	/	1.3	
	SEALER	2.2	/	1.7	1.9	/	1.3	
	ENAMEL	1.5	1.9	1.3	1.4	1.7	1.2	
	HAMMERED-EFFECT PAINT		/	/	1.9	/	/	1.9
					2.2			2.5
ORANGE-PEEL EFFECT PAINTS	/	/	2.2	/	/	2.5		