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## THE "AIR-ASSISTED AIRLESS" SERIES SYSTEMS

These are our MID pressure spray systems. These systems include an air powered piston pump and a Legend series K1 3A MIX gun with hoses. Air-Assisted Airless, sometimes called Air-Mixed Airless, is the most efficient spray technology available on the market today. These systems give transfer rates above 85%, compared to 65% for HVLP and only 30% for the old air spray. The system takes an airless pump, like used by painting contractors and combines it with a HVLP. An airless sprayer has a transfer rate of about 50% running at 2000 psi, it also has a poor quality of atomization. We then take this unit and drop the spray pressure by about ½ and put a HVLP air cap onto the airless tip. A small amount of air from the air cap is blended or mixed with the already atomized coating at the exact point of atomization. In blending the two energies, hydraulic from the pump and pneumatic from the air cap; we create a very high quality finish with very little turbulence or over-spray. Our line includes three different pump models to work with this gun the K20, K25 and K30. The gun also is available with several types of fluid tips described below.

The K20 is our most popular spray system. This is a 20 to 1 pump, meaning for every 1 psi of air pressure into the air motor you get 20 psi of fluid pressure out of the pump. For example that would mean if the air motor was set at 40 psi the pump would deliver 800 psi of fluid pressure. Our main competitors pump is only a 10 to 1, so it has to work twice as hard to do what our pump does. The K20 can also spray higher viscosity coatings than a 10:1 pump. The pump has a small fluid section so that clean out and product change is quick and easy. This unit has very low compressed air consumption; it can run with a 2 hp compressor. The K20 like all of our pumps has a hard chrome over stainless steel fluid section. This system is normally used for just one gun. The K20 is the quietest pumps on the market today.

The K25 is like the K20, but for more severe duty and can use two guns. This is a 25 to 1 pump so it can spray high viscosity coatings easily.

The K30 is like the K25 but can run 4 to 6 guns. This is a 30 to 1 pump and is mostly used with automatic systems or in very severe duty applications

K1 3A MIX gun has types of tips available. The standard or premium KN tips are best for most wood coatings. These tips give the best atomization. The TR reversing tip is good for spraying metal as it can be reversed to clean out clogs. These tips do not atomize as well as the KN or even the Mi tips so only use them when clogging is a problem

Below is a tip chart for the AIR-ASSISTED AIRLESS Series systems.

## A O M Spray Equipment Air Assisted Airless Tip Chart

Orifice Size	Spray Angle	Pattern Width @12"	Flow Rates with 250 C.P.S. Coating in G.P.M				Equivalent Tip #	New AOM Tip Premium #
			@500 psi	@1000 psi	@1500 psi	@2000 psi		
0.007	20"	4-5"					03-033	KN207
	30"	6-7"					03-073	KN307
0.009	20"	4-5"	0.039	0.053	0.066	0.076	04-033	KN209
	30"	6-7"					04-073	KN309
	40"	8-9"					04-093	KN409
	50"	10-12"					04-113	KN509
0.011	20"	4-5"	0.053	0.079	0.097	0.12	06-033	KN211
	30"	6-7"					06-073	KN311
	40"	8-9"					06-093	KN411
	50"	10-11"					06-113	KN511
	60"	11-13"					06-153	KN611
0.013	20"	4-5"	0.09	0.12	0.15	0.18	09-033	KN213
	30"	6-7"					09-073	KN313
	40"	8-9"					09-093	KN413
	50"	10-11"					09-113	KN513
	60"	12-13"					09-153	KN613
0.015	20"	4-6"	0.11	0.16	0.19	0.21	12-073	KN315
	30"	6-8"					12-093	KN415
	40"	8-10"					12-113	KN515
	50"	10-12"					12-153	KN615
	60"	12-14"					12-173	KN715
0.017	20"	4-6"	0.15	0.21	0.26	0.31	14-033	KN216
	30"	6-8"					14-073	KN316
	40"	8-10"					14-093	KN416
	50"	10-12"					14-113	KN516
	60"	12-14"					14-153	KN616
	70"	14-16"					14-173	KN716
0.019	20"	4-6"	0.2	0.28	0.34	0.40	20-073	KN320
	30"	6-8"					20-093	KN420
	40"	8-10"					20-113	KN520
	50"	10-12"					20-153	KN620
	60"	12-14"					20-173	KN720
	70"	14-16"					20-193	KN820

### METRIC TO DECIMAL CONVERSION CHART

0.15mm. = .0059in.	1.0mm. = .0394in.	1.9mm. = .0748in.
0.2mm. = .0078in.	1.1mm. = .0433in.	2.0mm. = .0787in.
0.25mm. = .0098in.	1.2mm. = .0472in.	2.1mm. = .0827in.
0.35mm. = .0113in.	1.3mm. = .0512in.	2.2mm. = .0866in.
0.5mm. = .0197in.	1.4mm. = .0551in.	2.3mm. = .0906in.
0.6mm. = .0236in.	1.5mm. = .0591in.	2.4mm. = .0945in.
0.7mm. = .0276in.	1.6mm. = .0630in.	2.5mm. = .0984in.
0.8mm. = .0315in.	1.7mm. = .0669in.	3.0mm. = .1181in.
0.9mm. = .0354in.	1.8mm. = .0709in.	4.0mm. = .1574in.
1 CFM = 27.78ft./min	14.8 PSI = 1 bar	